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2022-2023 Undergraduate Catalog

Accreditation

Northwest is accredited by the Higher Learning Commission (HLC) of the North Central Association of Colleges and Schools.

In addition to being accredited by the Higher Learning Commission, Northwest programs are accredited by:

- Association for Advancing Quality in Educator Preparation (AAQEP)
- Accreditation Council for Education in Nutrition and Dietetics (ACEND)
- Council for the Accreditation for Parks, Recreation, Tourism & Related Professions (COAPRT)
- Missouri State Board of Education
- National Association for the Education of Young Children (NAEYC)
- National Association of Schools of Music (NASM), 11250 Roger Bacon Dr., Suite 21, Reston, VA 20190-5248, (703) 437-0700
- National League for Nursing Commission for Nursing Education Accreditation (NLN CNEA)

Northwest receives an endorsement from the American Chemical Society (ACS) for chemistry programs.

The Bachelor of Science in Cybersecurity major has been validated by the National Centers of Academic Excellence in Cyber Defense

Program of Study Validation.

The School of Education also maintains memberships in the following organizations:

- American Association of Colleges for Teacher Education (AACTE)
- Missouri Association of Colleges for Teacher Education (MACTE)

Northwest Missouri State University

Students are expected to read and conform to the regulations in this catalog. The student, not the University nor faculty members, is primarily responsible for knowing the regulations and policies, and for meeting the requirements for a degree or certificate.

This catalog is available online for all students. Students are advised to study closely the course offerings available on the website and to consult with faculty advisors for planning.

The information in this publication endeavors to be as current and accurate as possible. Due to the constant change in economic conditions and in student program needs, the accuracy of the details appearing here may be affected. There may be a possibility from time to time that classes will be deleted from this catalog or from semester course offerings for lack of sufficient enrollment.

This catalog does not constitute a contract but is for information only.

Address of all University offices:

Northwest Missouri State University

800 University Drive
Maryville, Missouri 64468-6001

Academic and Administrative Office Hours:

8 a.m. to 5 p.m., Monday through Friday (except holidays)

University Information:

(660) 562-1212

Web Address:

www.nwmissouri.edu

Statement of Non-Discrimination

Northwest Missouri State University emphasizes the dignity and equality common to all persons and adheres to a strict nondiscrimination policy regarding the treatment of individual faculty, staff, students, third parties on campus, and applicants for employment and admissions. In accord with federal law and applicable Missouri statutes, the University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, pregnancy, ancestry, age, disability, genetic information, veteran status, or any other legally-protected class, in employment or in any program or activity offered or sponsored by the University, including, but not limited to, athletics, instruction, grading, the awarding of student financial aid, recruitment, admissions, and housing. As an equal opportunity employer, the University promotes and maintains affirmative action programs to ensure that all individuals participate fully in every facet of employment opportunities.

Persons having inquiries concerning the University's compliance with this policy or any laws and regulations prohibiting discrimination are directed to contact the following:

- An employee with questions or concerns about any type of discrimination in the workplace, including discriminatory harassment, is encouraged to bring these issues to the attention of the Equal Employment Opportunity (EEO) Officer, who may be contacted at: EEO Officer, Northwest Missouri State University, 800 University Drive, Maryville, Missouri, 64468-6001 (660-562-1128).
- Questions or concerns regarding the University's compliance with Title IX may be directed to the University's Title IX Coordinator or Deputy Title IX Coordinators. The University has designated the following Title IX Coordinator and Deputy Title IX Coordinators as named in the University's Title IX Policies and Procedures:

William Sabio, Assistant Vice President of Student Affairs-Title IX and Equity,
25 North Complex, 660-562-1873, wsabio@nwmissouri.edu

Krista Barcus, Assistant Vice President of Human Resources (Deputy
Employee Coordinator), 125 Administration Building, 660-562-1128, kbarcus@nwmissouri.edu

Kori Hoffmann, Assistant Vice President of Student Affairs-Student
Engagement & Development (Deputy Student Coordinator), 2450 Student Union, 660-562-1535,
khoff20@nwmissouri.edu

- For ADA/Section 504 related questions or concerns, please contact:

William Sabio, Assistant Vice President of Student Affairs-Title IX and Equity,
25 North Complex, 660-562-1873, wsabio@nwmissouri.edu

- For all other inquiries related to discrimination at the University, please contact:

William Sabio, Assistant Vice President of Student Affairs-Title IX and Equity,
25 North Complex, 660-562-1873, wsabio@nwmissouri.edu

No individual will be subject to any form of retaliation, discipline, or other adverse action for reporting conduct in violation of the University's nondiscrimination/EEO policy, assisting/cooperating in making a complaint, or assisting with the investigation of a complaint. Any individual who believes they have experienced or witnessed retaliation should

immediately notify the appropriate member(s) of the administration as identified above. Those found to be engaging in any type of discrimination in violation of the law or University policy will be subject to disciplinary action, up to and including dismissal or termination of employment.

Copies of the University's Equal Employment Opportunity ("EEO") Guidelines are available in the Office of Human Resources.

Message from the President

Northwest students:

It is with Bearcat pride that I welcome you and invite you to explore Northwest and all it has to offer. Please use this catalog to advance your knowledge about the array of academic opportunities available at Northwest.

At Northwest, our mission is focusing on student success – every student, every day. Northwest boasts a higher freshman success rate than other moderately selective universities in Missouri, and our graduation rate is considerably higher than our peers as well as the national average. Furthermore, we are leaders in the state with regard to undergraduate and graduate placement rates. We put a high premium on your success!

Across the nation, the buzzwords of access, affordability and accountability permeate nearly all conversations related to higher education. While these terms have different meanings for different stakeholders, we at Northwest tend to look at these from a dual perspective: Our responsibility as an institution and your responsibility as a Bearcat.

Access: The traditional definition is that citizens have access to environments of higher education. However, we don't believe our responsibility ends once you are admitted to Northwest. "Access" to us also means we provide open-door policies, student-faculty ratios ensuring access to course instructors and student services designed by and for students and available at the times you need them. Your responsibility is simple: to access faculty as advisors and mentors and to access student organizations and services. We want you to access everyone who works diligently on a daily basis to ensure the best possible learning opportunities and living environment for you. In short, Bearcats connect, and we encourage you to do so.

Affordability: We consider this responsibility every day and work to stretch every dollar we can to its fullest. That said, we focus on the highest quality for you as we help design your experiences. It's a balancing act and we are quite proud of what we provide – as are more than 80,000 Northwest alumni and friends. Your responsibility is to be a smart consumer and join us in respecting our environment.

Accountability: Northwest is accountable to you, taxpayers and a range of others, and our institution is managed in a transparent environment. We expect you, too, to be accountable for your experience at Northwest. Actively engage with your professors both in and out of the classroom. Take advantage of services and academic support resources. Develop relationships with fellow students that will contribute positively to your ongoing success.

So, when Northwest says it will be THE university of choice for a comprehensive, exceptional student experience, what does that look like? It includes:

- A relevant general education curriculum, known as the Northwest Core, designed to deepen your understanding of the world and how to communicate this understanding. Combined with profession-based learning experiences, it will help you appreciate the ways in which others interpret the world around us and equip you for success as citizens and as professionals in your chosen disciplines;
- Majors and minors designed by faculty who are experts in their disciplines and shaped by industry professionals to ensure your courses meet the demands of the marketplace;
- More than 150 student organizations in addition to numerous co-curricular, practicum and internship experiences that are profession-based and allow you to apply learning beyond classroom situations;
- One-on-one learning opportunities with the most committed faculty anywhere as well as other academic services such as tutors and supplemental instruction to help you succeed at an even higher rate;

- The opportunity for you to engage in the learning and living environment as much as you wish and shape your learning plan as you progress;
- A robust intramural program and club sports in addition to an NCAA Division II athletics program with national championship-winning teams;
- An internationally benchmarked student employment program designed to augment your classroom learning, to provide professional development and help keep your Northwest education affordable;
- An environment punctuated by a campus that is designated as the Missouri Arboretum, focused on sustainability and alternative energy, and regarded as the safest campus in the state; and
- Access and interaction with passionate and committed alumni who are dedicated to advancing Northwest and ensuring learning opportunities for you.

Notice the above does not just focus on the classroom and ensuing catalog offerings. That's because we view the academic experience as a comprehensive one. Research shows that engaged students are successful students, and I challenge you to truly engage in the collegiate experience. At Northwest, we consider these ideas part of the responsibilities of "Being a Bearcat." Bearcats learn. Bearcats connect. Bearcats care. Bearcats practice civility. Bearcats show pride.

Thank you for being a Bearcat. We believe in you. You believe in yourself. Together we believe in the Green and White.

Sincerely,

A handwritten signature in black ink, reading "Clarence Green, Jr." in a cursive script.

Dr. Clarence Green, Jr.

Interim President

Northwest's Mission, Vision and Values

Mission

Northwest Missouri State University focuses on student success - every student, every day.

Vision

We will be THE university of choice for a comprehensive, exceptional student experience.

Values

We value:

- Student Success
- Scholarship and life-long learning
- Intercultural competence
- Collaboration
- Respect and integrity
- Strategic thinking
- Excellence

Core Competencies (STIR)

- **Safe:** Preventative-based systems ensure students, employees, visitors, friends, and the community can learn, live, and work in a safe environment.
- **Trusted:** Northwest employees do the right things for the right reasons; our genuineness and the sincerity result in a culture of institutional integrity.
- **Invested:** Employees invest in student success on a personal level, resulting in rewarding relationships that benefit all involved.
- **Resourceful:** We provide high value through drive and resilience, and thus achieve maximum results.

History

Northwest Missouri State University is a coeducational, primarily residential four-year university with an enrollment near 8,000 students. It offers a broad range of undergraduate and selected graduate programs on its Maryville campus as well as its Northwest-Kansas City location at the Northland Innovation Center in Gladstone, Missouri, and through Northwest Online.

Founded in 1905 as the state's Fifth District Normal School to provide teachers for schools within a 19-county region in northwest Missouri, the University has evolved into a comprehensive state institution that supports more than 127 undergraduate programs, 40 master's degrees, three specialist degrees, a cooperative doctoral program and six certificate programs. The University offers six professional schools that are closely aligned with specific professions (School of Agricultural Sciences, Melvin D. and Valorie G. Booth School of Business, School of Communication and Mass Media, School of Computer Science and Information Systems, School of Education, and School of Health Science and Wellness), and five academic departments that contain broader disciplines and comprise the University's College of Arts and Sciences (Department of Fine and Performing Arts; Department of Humanities and Social Sciences; Department of Language, Literature and Writing; Department of Mathematics and Statistics; and the Department of Natural Sciences).

Northwest outperforms statewide peers in the areas of retention, graduation and placement. Profession-based learning is embedded in all areas of study at Northwest and gives students opportunities to build their résumés with collaborative experiences that include the Horace Mann Laboratory School, National Public Radio affiliate KXCV, the R.T. Wright Farm, Mozingo Outdoor Education Recreation Area and Knacktive, a student-driven integrated digital marketing communications agency.

In alignment with its mission of focusing on student success – every student, every day – Northwest's Student Success Center, located in the B.D. Owens Library, provides a centralized hub that supports student learning and contributes to students' growth and development from orientation to graduation. The center provides a number of free services focused on transitioning, advising, supporting and connecting students to academic resources.

Furthermore, Northwest's vibrant and diverse learning community offers more than 150 student organizations. Textbooks and a laptop are included in tuition, which is among the lowest in the nation, saving students an estimated \$7,200 over four years. Northwest also offers 1,200 student employment positions, allowing students to build professional skills through its internationally benchmarked student employment program.

Northwest places an emphasis on providing an exceptional student experience that places high value on scholarship and lifelong learning, intercultural competence, collaboration, respect and integrity, strategic thinking and excellence.

Academic Calendar

2022-2023

| Fall Semester 2022 | | |
|-----------------------------|----------------|---|
| August 12 | Friday | University/Academic Unit Meetings |
| August 15-16 | Monday-Tuesday | Academic Unit Planning/Development |
| August 16 | Tuesday | General Registration |
| August 17 | Wednesday | Fall Campus/Online block 1 classes (7-week) begin |
| September 5 | Monday | Labor Day, no classes |
| October 7 | Friday | Campus block 1/Online block 1 classes (7-week) end |
| October 10 | Monday | Campus block 2 classes begin |
| October 17 | Monday | Online block 2 classes (7-week) begin |
| October 21 | Friday | Walkout Day, no classes |
| October 22 | Saturday | Homecoming |
| November 21-25 | Monday-Friday | Thanksgiving Break (online classes still in session) |
| November 28 | Monday | Campus classes resume |
| December 2 | Friday | Campus classes end |
| December 5-9 | Monday-Friday | Final Exams |
| December 9 | Friday | Online block 2 classes (7-week) end |
| December 9 | Friday | Commencement ceremonies |
| December 12 | Monday | Grades due by 10 a.m. |
| Interession | | |
| December 12 | Monday | Online interession classes begin |
| January 6 | Friday | Online interession classes end |
| January 9 | Monday | Online interession grades due by 10 a.m. |
| Spring Semester 2023 | | |
| January 6 | Friday | University/Academic Unit meetings |
| January 9-10 | Monday-Tuesday | Academic Unit Planning/Development |
| January 10 | Tuesday | General Registration |
| January 11 | Wednesday | Spring Campus/Online block 1 classes (7-week) begin |
| January 16 | Monday | Martin Luther King Holiday, no classes |
| March 3 | Friday | Campus block 1/Online block 1 classes (7-week) end |
| March 6-10 | Monday-Friday | Spring Break |
| March 13 | Monday | Campus classes resume |
| March 13 | Monday | Campus block 2/Online block 2 classes (7-week) begin |
| April 28 | Friday | Campus classes/Online block 2 classes (7-week) end |
| May 1-5 | Monday-Friday | Final Exams |
| May 5 | Friday | Commencement Ceremony |
| May 6 | Saturday | Commencement Ceremonies |
| May 8 | Monday | Grades due by 10 a.m. |
| Summer Semester 2023 | | |
| May 9 | Tuesday | Campus classes begin & registration-block 1 (4-week); block 1&2 (8-week); full block (12-week) |
| May 9 | Tuesday | Online block 1 classes (7-week) begin and registration |
| May 29 | Monday | Memorial Day, no classes |
| June 2 | Friday | Campus block 1 classes end |
| June 5 | Monday | Campus classes begin & registration-block 2 (4-week); block 2&3 (8-week) |
| June 23 | Friday | Online block 1 classes (7-week) end |

| | | |
|-----------|-----------|--|
| June 26 | Monday | Online block 2 classes (7-week) begin and registration |
| June 30 | Friday | Campus classes end (block 2; block 1&2) |
| July 4 | Tuesday | Independence Day Holiday, no classes |
| July 5 | Wednesday | Campus block 3 classes (4-week) begin & registration |
| July 28 | Friday | Campus classes end-block 3; block 2&3; full block |
| July 31 | Monday | Campus grades due by 10 a.m. |
| August 11 | Friday | Online block 2 classes (7-week) end |
| August 14 | Monday | Online class grades due by 10 a.m. |

Admissions

Admission to Undergraduate Study

Northwest is designated as a moderately selective university. The Admissions office therefore evaluates students for admission based on their unique academic ability that meets our moderately selective criteria. Northwest accepts students regardless of race, color, religion, national origin, sex, sexual orientation, gender identity, pregnancy, ancestry, age, disability, genetic information, veteran status, or any other legally-protected class. Prospective students and their caregivers (parents, family, and guardians) are encouraged to visit Northwest. To schedule a visit, call the Northwest Office of Admissions toll-free at (800) 633-1175.

To apply, complete the appropriate Northwest Application for Admission and submit official high school and/or college transcripts, ACT/SAT scores as appropriate and other documents that may be requested during the admission review process. All materials should be received by the Northwest Office of Admissions - Operations at least two weeks before the anticipated date of enrollment, if possible. Documents submitted during the application process will not be returned. When admitted students register, such documents become part of the student's official academic record. At that time, students may review, but not remove, documents from their academic records.

Freshman Admissions

Freshman admission is based on a combination of academic and personal considerations within the moderately selective designation. Northwest takes an individual, holistic approach to the review of applications. All applicant's academic accomplishments are a priority and are demonstrated by test scores, grades, class rank and exposure to a college prep curriculum. Admission to Northwest is not viewed as an entitlement based on grades and test scores. Our admission process combines an examination of academic ability with flexible assessment of an applicant's experiences and potential.

New freshmen graduating from high school in the Spring of 2010 or after are required to have completed a 24-unit curriculum (16-unit core curriculum for 1996-2009 graduates). In addition, students must be from an accredited high school and meet the requirements in Category I or Category II below.

Category I

1. 21 ACT composite or higher (or the SAT (Evidence-Based Reading and Writing + Math) equivalent: SAT-1060 or higher) and
2. Minimum 2.00 cumulative GPA or above (on 4.00 scale)

Category II

1. Have a combined percentile index that equals or exceeds 100 points; and
2. Minimum 2.00 cumulative GPA or above (on 4.00 scale)

For those students not meeting these requirements, the University will consider each case on an individual basis and will use professional judgment in admitting students that demonstrate academic promise and potential for success. Additional information, such as letters of recommendation and a personal statement, may be requested. Conditions may be placed on the enrollment of such students, if accepted into the University.

Application Fee

An application fee may be required for new students applying to Northwest. A complete listing of application fees is available by phone at (800) 633-1175.

Combined Percentile Index

Figure the class rank percentile by dividing class rank by class size, then subtract that percentile from 100 percent.

Using the Test Score Percentile Chart given below, find the appropriate ACT/SAT composite test score percentile.

Add it to the class rank percentile to get the Combined Percentile Index.

For example:

| | |
|--|--------------------------|
| Class Rank = 6 | ACT Composite Score = 19 |
| Class Size = 30 | ACT Percentile = 42 |
| $1 - (6 \text{ divided by } 30) = .80 \text{ or } 80 \text{ percentile}$ | |

Class Rank percentile = 80 percentile

Combined Percentile Index = $80 + 42 = 122$

Combined Percentile Index of 122 exceeds the minimum combined percentile index of 100, so the student would be admissible to Northwest if core curriculum and GPA requirements were met.

Test Score Percentile Chart

| Composite ACT | Redesigned SAT | SAT I | Percentile |
|---------------|----------------|-----------|------------|
| 36 | 1600 | 1600 | 99 |
| 35 | 1560-1590 | 1540-1590 | 99 |
| 34 | 1520-1550 | 1490-1530 | 99 |
| 33 | 1490-1510 | 1440-1480 | 99 |
| 32 | 1450-1480 | 1400-1430 | 99 |
| 31 | 1420-1440 | 1360-1390 | 99 |
| 30 | 1390-1410 | 1330-1350 | 98 |
| 29 | 1350-1380 | 1290-1320 | 96 |
| 28 | 1310-1340 | 1250-1280 | 94 |
| 27 | 1280-1300 | 1210-1240 | 91 |
| 26 | 1240-1270 | 1170-1200 | 87 |
| 25 | 1200-1230 | 1130-1160 | 83 |
| 24 | 1160-1190 | 1090-1120 | 78 |
| 23 | 1130-1150 | 1050-1080 | 72 |
| 22 | 1100-1120 | 1020-1040 | 66 |
| 21 | 1060-1090 | 980-1010 | 58 |
| 20 | 1020-1050 | 940-970 | 51 |
| 19 | 980-1010 | 900-930 | 42 |
| 18 | 940-970 | 860-890 | 34 |
| 17 | 900-930 | 820-850 | 26 |
| 16 | 860-890 | 770-810 | 19 |
| 15 | 810-850 | 720-760 | 13 |
| 14 | 760-800 | 670-710 | 8 |
| 13 | 720-750 | 620-660 | 4 |
| 12 | 630-710 | 560-610 | 2 |
| 11 | 560-620 | 510-550 | 1 |

(NOTE: Redesigned SAT effective beginning March 2016; SAT I Exam effective April 1995 - February 2016)

Redesigned SAT score is a combination of SAT Evidence-Based Reading and Writing and SAT Math scores.

SAT I score is a combination of SAT Critical Reading and SAT Mathematics scores.

High School Core Curriculum - 2010 high school graduates and beyond

- 4 units of English
- 3 units of Mathematics
(high school-level algebra or higher)
- 3 units of Science
(must include at least one laboratory science)
- 3 units of Social Science
(must include American history and at least one semester of government)
- 1 unit of Fine Arts
- Electives and additional coursework may also be considered

Note: 1 unit = 1 year

Test Score Requirements

The ACT is used for admission, scholarships, placement and advisement purposes; the Scholastic Aptitude Test (SAT) may also be used. In addition, Northwest utilizes superscores when determining admission and automatic scholarships so students are encouraged to submit all test scores for consideration. A superscore is a composite of the best subscore in each subject area, regardless of the test date. Scores sent by the testing agency as well as from the high school are considered official. Scores submitted directly from the student may be used for admission purposes but must be verified by having official scores sent directly from the testing agency or high school. Residual test scores are not acceptable, unless taken at Northwest.

To Apply:

- Carefully and promptly complete the Application for Admission and submit it to the Northwest Office of Admissions - Operations.

Online Only or Online Professional Application Deadline: Students applying for Online Only or Online Professional courses must follow deadlines as posted on the University website.

- Students should arrange to have a copy of their high school transcript of courses taken and the grades received, cumulative GPA, class rank if available and expected date of graduation sent to the Northwest Office of Admissions - Operations. Provisional acceptance will be considered upon receipt of a six-semester partial transcript. Students enrolled in college credit courses under the Dual Credit Program need to request an official college transcript be sent to the Office of Admissions - Operations upon completion of the coursework.
- Students should have a copy of their ACT scores sent to the Office of Admissions (SAT is acceptable). Scores provided by the student may be used for admission purposes but official scores from ACT or the high school for the highest composite score received are required to complete the admission record.

Home-schooled Students

Home-schooled students will be evaluated similar to those students who attended/are attending a public or private high school. Applicants must submit their ACT or SAT results and a transcript listing of high school courses and grades for each course.

In order to be accepted, homeschooled students must meet one of the following criteria:

1. A 21 or higher on the ACT (or SAT equivalent) **OR**
2. A GED score of at least 660 **OR**
3. A HiSET score of at least 75

Official ACT/SAT scores directly from ACT or College Board are also required for course placement and scholarship purposes unless the applicant is an Adult Student.

For those students not meeting these requirements, the University will consider each case on an individual basis and will use professional judgment in admitting students that demonstrate academic promise and potential for success. Additional information such as letters of recommendation and a personal statement may be requested. Conditions may be placed on the enrollment of such students if accepted into the University.

Former Missouri Academy Students

Former Missouri Academy students will be evaluated similar to those students who attended/are attending a public or private high school. ACT or SAT results provided to the Missouri Academy will still be on record at Northwest so do not need to be resubmitted.

Credit for External Examinations

Northwest utilizes College Board Advanced Placement (AP), College Level Examination Program (CLEP), International Baccalaureate (IB), Defense Activity for Non-Traditional Education Support (DANTES), Missouri Seal of Biliteracy (SoBL) and General Education Certificate (GCE) Advanced Level Examinations to award credits toward graduation. The AP exam and IB are administered through the student's high school, while the CLEP may be taken on campus through the Assessment Office or at any other institutional testing center. Students may not receive credit for any of these exams in subject areas already enrolled in at the college level or in which college credit has already been granted; students may not receive credit for CLEP exams retaken less than six months after the previous exam. In order to receive credit, students must supply the Office of Admissions-Operations with original score reports from the testing agency.

Northwest does not award credit for all AP, CLEP, IB, DANTES or GCE A-level examinations. Northwest will allow credit for scores on selected exams as follows:

Advanced Placement

| Course (Northwest Equivalent) | Score Required | Hours Granted |
|--|----------------|---------------|
| American History (33-905) | 3 | 3 |
| Art History (13-102) | 3 | 3 |
| Biology (04-102/103) | 3 | 4 |
| Calculus AB (17-120) | 3 | 4 |
| Calculus BC* (17-120) | 3 | 4 |
| Chemistry* (24-114/115) | 3 | 4 |
| Comparative Government and Politics (34-310) | 3 | 3 |
| Computer Science A (44-241) | 3 | 3 |
| Computer Science Principles (44-101) | 3 | 3 |
| Drawing (13-120) | 3 | 3 |
| English Language and Comp (10-111) | 3 | 3 |
| English Literature and Comp (10-908) | 3 | 3 |

| | | |
|--|---|---|
| Environmental Science (04-420) | 3 | 4 |
| European History (26-103) | 3 | 3 |
| French Language and Culture* (14-131, 14-132) | 3 | 6 |
| German Language and Culture (90-916) | 3 | 3 |
| Human Geography (32-101) | 3 | 3 |
| Latin (90-916) | 3 | 3 |
| Macroeconomics (52-150) | 3 | 3 |
| Microeconomics (52-151) | 3 | 3 |
| Music Theory (19-910) | 3 | 3 |
| Physics 1 (25-110/111) | 3 | 4 |
| Physics 2 (25-112/113) | 3 | 4 |
| Physics C – Mechanics* (25-120/121) | 3 | 5 |
| Psychology (08-103) | 3 | 3 |
| Research (10-902) | 3 | 3 |
| Spanish Language and Culture* (14-141, 14-142) | 3 | 6 |
| Spanish Literature (90-916) | 3 | 3 |
| Statistics (17-114) | 3 | 3 |
| Studio Art – 2-D Design (13-920) | 3 | 3 |
| Studio Art – 3-D Design (13-920) | 3 | 3 |
| United States Government and Politics (34-924) | 3 | 3 |
| World History (26-103) | 3 | 3 |

* For a Course Score greater than 3, additional credit will be awarded. See table below.

| Course (Northwest Equivalent) | Score Required | Hours Granted |
|---|----------------|---------------|
| Calculus BC (17-120, 17-121) | 4 | 8 |
| Chemistry (24-114/115, 24-116/117) | 4 | 9 |
| French Language and Culture (14-131, 14-132, 14-232) | 4 | 9 |
| French Language and Culture (14-131, 14-132, 14-232, 14-233) | 5 | 12 |
| Physics C - Mechanics (25-120/121, 25-230/231) | 4 | 10 |
| Spanish Language and Culture (14-141, 14-142, 14-242) | 4 | 9 |
| Spanish Language and Culture (14-141, 14-142, 14-242, 14-243) | 5 | 12 |

CLEP Subject Examinations

| Exam (Northwest Course Equivalent) | Score Required | Hours Granted |
|--|----------------|---------------|
| Composition and Literature: | | |
| American Literature (10-908) | 50 | 3 |
| Analysis and Interpretation of Literature (10-908) | 51 | 3 |
| College Composition (10-920) | 50 | 6 |
| English Literature (10-908) | 49 | 3 |
| History and Social Sciences: | | |
| American Government (34-924) | 55 | 3 |
| American History I–to 1877 (33-155) | 49 | 3 |
| American History II–1865 to Present (33-156) | 49 | 3 |
| Introductory Macroeconomics (52-150) | 50 | 3 |
| Introductory Microeconomics (52-151) | 50 | 3 |
| Introductory Psychology (08-103) | 50 | 3 |
| Introductory Sociology (35-101) | 50 | 3 |
| Western Civilization I (26-102) | 50 | 3 |
| Western Civilization II (26-103) | 50 | 3 |
| Science/Mathematics: | | |
| Calculus with Elementary Functions (17-120) | 49 | 4 |

| | | |
|---|----|----|
| College Algebra (17-118) | 48 | 3 |
| Trigonometry (17-119) | 54 | 2 |
| Pre-Calculus (17-117) | 50 | 3 |
| College Algebra/Trigonometry (17-118, 17-119) | 50 | 5 |
| General Biology (04-102/103) | 49 | 4 |
| General Chemistry (24-114/115) | 50 | 4 |
| Business: | | |
| Financial Accounting (51-201) | 55 | 3 |
| Information Systems (44-130) | 50 | 3 |
| Introductory Business Law (53-311) | 50 | 3 |
| Principles of Management (54-313) | 50 | 3 |
| Principles of Marketing (55-330) | 50 | 3 |
| Foreign Language: | | |
| French (14-131, 14-132) | 50 | 6 |
| French (14-131, 14-132, 14-232, 14-233) | 63 | 12 |
| Spanish (14-141, 14-142) | 50 | 6 |
| Spanish (14-141, 14-142, 14-242, 14-243) | 63 | 12 |

CLEP General Examinations

CLEP General exams may be used to fulfill Northwest Core requirements and receive credits, but are not equated to specific Northwest courses.

| Exam (Northwest Course Equivalent) | Score Required | Hours Granted |
|------------------------------------|----------------|---------------|
| Natural Science (98-911) | 50 | 3 |
| Social Science (35-906) | 50 | 3 |
| Humanities (26-909) | 50 | 3 |
| Mathematics (17-912) | 50 | 3 |

International Baccalaureate Credit

International Baccalaureate credit is awarded for higher-level examinations only unless otherwise stated.

| Course | Score Required | Hours Granted |
|--|----------------|---------------|
| Biology (04-102/103) | 4 | 4 |
| Chemistry (24-112/113) | 4 | 4 |
| Chemistry (24-114/115) | 5 | 4 |
| Economics SL (52-130) | 4 | 3 |
| Economics HL (52-150) | 4 | 3 |
| English A: Literature (10-908) | 4 | 3 |
| English A: Language & Literature (10-908) | 4 | 3 |
| English A: Language & Literature (10-908, 10-111) | 5 | 6 |
| French B SL/HL (14-131) | 5 | 3 |
| Geography (32-101) | 4 | 3 |
| History of Europe (26-103) | 4 | 3 |
| History of the Americas (33-155) | 4 | 3 |
| Information Technology in a Global Society (44-920) | 4 | 3 |
| Mathematics: Applications & Interpretation SL (17-116) | 4 | 3 |
| Mathematics: Applications & Interpretation HL (17-118) | 4 | 3 |
| Mathematics: Analysis and Approaches SL (17-120) | 5 | 4 |
| Mathematics: Analysis and Approaches HL (17-120, 17-121) | 6 | 9 |
| Music (19-201) | 4 | 3 |
| Philosophy SL/HL (39-171) | 4 | 3 |
| Physics (25-110, 25-111) | 4 | 4 |
| Physics (25-110, 25-111, 25-112, 25-113) | 5 | 8 |

| | | |
|---|---|---|
| Psychology (08-103) | 4 | 3 |
| Social and Cultural Anthropology (35-460) | 4 | 3 |
| Spanish B SL/HL (14-141) | 5 | 3 |
| Theatre Arts SL (43-101) | 4 | 3 |
| Theatre Arts HL (43-101, 43-920) | 4 | 5 |
| Visual Arts SL (13-910) | 4 | 3 |
| Visual Arts HL (13-910, 13-920) | 4 | 6 |
| World History Topics SL/HL (26-920) | 4 | 3 |

DANTES Credit

DANTES Subject Standardized Tests (DSST) may be used to fulfill some course requirements. The Northwest course numbers below that end with -920 indicate Lower Division Elective credit. Northwest course numbers below that end with -990 indicate Upper Division Elective credit.

| DSST Exam | ACE Score Required | Hours Granted |
|---|--------------------|---------------|
| A History of the Vietnam War (33-990) | 400 | 3 |
| Art of the Western World (13-910) | 400 | 3 |
| Astronomy (40-122) | 400 | 3 |
| Business Ethics and Society (39-275) | 400 | 3 |
| Business Mathematics (54-920) | 400 | 3 |
| Computing and Information Technology (44-130) | 400 | 3 |
| Criminal Justice (34-205, 34-920) | 400 | 6 |
| Environment Science (27-911) | 400 | 3 |
| Ethics in America (39-909) | 400 | 3 |
| Foundations of Education (61-461) | 400 | 3 |
| Fundamentals of College Algebra (17-118) | 400 | 3 |
| Fundamentals of Counseling (08-920) | 400 | 3 |
| Fundamentals of Cybersecurity (44-990) | 400 | 3 |
| General Anthropology (35-108) | 400 | 3 |
| Health and Human Development (22-110/111) | 400 | 3 |
| History of the Soviet Union (33-990) | 400 | 3 |
| Human Resource Management (54-920) | 400 | 3 |
| Human/Cultural Geography (32-101) | 400 | 3 |
| Introduction to Business (54-920) | 400 | 3 |
| Introduction to Law Enforcement (34-990) | 400 | 3 |
| Introduction to World Religions (26-162) | 400 | 3 |
| Lifespan Developmental Psychology (08-333) | 400 | 3 |
| Management Information Systems (54-920) | 400 | 3 |
| Math for Liberal Arts (17-171) | 400 | 3 |
| Money and Banking (53-990) | 400 | 3 |
| Organizational Behavior (54-920) | 400 | 3 |
| Personal Finance (53-920) | 400 | 3 |
| Principles of Advanced English Composition (10-111) | 400 | 3 |
| Principles of Finance (53-990) | 400 | 3 |
| Principles of Physical Science I (40-102) | 400 | 3 |
| Principles of Public Speaking (29-102) | 400 | 3 |
| Principles of Statistics (17-114) | 400 | 3 |
| Principles of Supervision (54-920) | 400 | 3 |
| Substance Abuse (08-920) | 400 | 3 |
| The Civil War and Reconstruction (33-534) | 400 | 3 |

Missouri Seal of Biliteracy

The Missouri Seal of Biliteracy (SoBL) is awarded to graduating high school students in districts with a DESE-approved program, who have demonstrated achievement in English, a Language Other Than English (LOTE) and sociocultural competence through the American Council on the Teaching of Foreign Languages (ACTFL) and ACTFL Assessment of Performance toward Proficiency in Languages (AAPPL) testing. Equivalent scores on another measure of proficiency recognized by the Missouri Department of Elementary and Secondary Education for use with the Missouri Seal of Biliteracy may also be considered. All Missouri students studying any of the world's languages are potential Seal candidates. The equivalencies listed below are for Spanish using the AAPPL assessment.

| Northwest Course Equivalent | AAPPL Score Required | Hours Granted |
|--|--|---------------|
| LANG 14-141, 14-142, 14-242, 14-243, 14-344, *14-990 | At least Advanced (score of A) on each skill | 18 |
| LANG 14-141, 14-142, 14-242, 14-243 | At least Intermediate Mid (score of I-3) on each skill | 12 |
| LANG 14-141, 14-142 | At least Novice High (score of N-4) on each skill | 6 |

*14-990 represents upper-level language elective to bring the total credit to the level indicated.

General Education Certificate

General Education Certificate (GCE) Advanced Level Examinations may be used to fulfill some course requirements. Credit is only awarded for A (Advanced)-Level examinations, not for AS (Advanced Subsidiary)-Level. Exams must reflect a grade of C or higher on a US grading scale to earn credit. Only "pass credit" will be awarded by Northwest, not a grade.

| Exam Title | Northwest Course Equivalent | Hours Granted |
|--------------------------|--|---------------|
| Accounting | Accounting I (51-201) | 4 |
| | Accounting II (51-202) | 4 |
| Biology | General Biology & Lab (04-102/103) | 4 |
| | Lower-Level Biology Elective (04-920) | 4 |
| Business | Principles of Management (54-313) | 4 |
| | Principles of Marketing (55-330) | 4 |
| Chemistry | General Chemistry I & Lab (24-114/115) | 4 |
| | General Chemistry II & Lab (24-116/117) | 4 |
| Computers | Computers Information & Tech (44-130) | 4 |
| | Computer Programming I (44-141) | 4 |
| Computers & Mathematics* | Computers Information & Tech (44-130) | 2 |
| | Computer Programming I (44-141) | 2 |
| | College Algebra (17-118) | 2 |
| | Calculus I (17-120) | 2 |
| Economics | Principles of Macroeconomics (52-150) | 4 |
| | Principles of Microeconomics (52-151) | 4 |
| Mathematics | College Algebra (17-118) | 4 |
| | Calculus I (17-120) | 4 |
| Physics | General Physics I & Lab (25-110/111) | 4 |
| | General Physics II & Lab (25-112/113) | 4 |
| Psychology | General Psychology (08-103) | 4 |
| | Lower-level Psychology Elective (08-920) | 4 |
| Sociology | General Sociology (35-101) | 4 |
| | Lower-level Sociology Elective (35-920) | 4 |

*This exam can be taken separately or together; credit hours will be adjusted accordingly depending on whether Computers, Mathematics, or Computers & Mathematics exams were completed.

Dual Credit Courses (Transferred to Northwest)

Northwest will accept for credit, courses taken while enrolled in high school under the Dual Credit Program as long as the courses are not vocational in nature (unless taken as part of an Associate of Arts degree) or developmental and follow the CBHE Policy on Dual Credit Delivery issued June 2015. In order to receive credit, the Office of Admissions-Operations must receive an official college transcript from the college or university granting the credit.

Military Service

Students who have completed active military service may be granted credit as determined by the Northwest Office of Admissions-Operations. Credit may also be granted for specific military training and MOS designations as recommended by the American Council on Education.

Transfer Admissions

Transfer students are accepted for the fall, spring, and summer semesters.

Students who wish to transfer to Northwest are strongly encouraged to schedule a campus visit by calling the Northwest Office of Admissions at (800) 633-1175, in order to discuss transfer of credits with the transfer academic advisor or the academic department's major advisor. Upon presentation of an official transcript, a degree audit will be prepared which indicates what courses remain for a student to take to complete their degree at Northwest.

Transfer Requirements

To be considered for admission on transfer criteria rather than high school criteria, a student must have completed at least 24 hours of transferable, college-level coursework. (These hours must have been earned after high school graduation.) Students who have less than 24 hours completed will be considered for admission on the basis of the freshman admission requirements in addition to college work that has been completed. (Students transferring from non-regionally accredited institutions will also be considered as first-time freshmen. Credits cannot be transferred to Northwest from a non-regionally accredited institution unless the credit was applied to an Associate's degree at a regionally-accredited institution, in which case the credit will be awarded from the regionally-accredited institution.)

Transfer students must submit an application for admission along with official transcripts from all regionally-accredited colleges or universities attended. Students currently enrolled at a college or university should send an official partial transcript when making application for admission. Students must have a 2.00 (on a 4.00 scale) cumulative college grade point average in transfer in order to be accepted to Northwest. For students with a cumulative college grade point average in transfer below 2.00, consideration will be given based on professional judgment and acceptance may be granted on a probationary basis. If admitted, a transfer student who has less than 30 credit hours in transfer and a college cumulative GPA between 1.75 and 1.99 will be regularly admitted to the University, rather than on probation.

Application Fee

An application fee may be required for new students applying to Northwest. A complete listing of application fees is available at (800) 633-1175.

Transfer of Credits

Students transferring to Northwest from another regionally accredited institution may be given transfer credit as their transcripts are evaluated by the Office of Admissions-Operations. Non-college parallel courses or technical credit can be transferred only for the Bachelor of Applied Science degree or if part of an Associate of Arts degree unless the Office of Admissions-Operations and the corresponding academic department determine that the courses are equivalent to a liberal arts level course.

Continuing students at Northwest who wish to take courses at another institution as a visiting student should contact the Office of Admissions-Operations prior to enrolling to ensure the viability of transferring those courses into Northwest.

Students have the option of meeting degree requirements as governed by the academic catalog in force at the time of the student's initial enrollment in higher education (provided that the student has maintained continuous enrollment and has remained in the same major program) or by the academic catalog in force at the time of the student's initial enrollment at Northwest.

Aside from possible waiver of Northwest Core requirements as detailed below, transfer credit will be evaluated on the same criteria established for native students as set forth in the academic policies section of this catalog. Students may challenge the interpretation of such criteria made by the Office of Admissions-Operations by petitioning Northwest's Transfer & Articulation Officer located in the Student Success Center.

Transfer credits do not always have an equivalent course at Northwest but may satisfy the Core 42 or department requirements. The following 900-series course numbers are used to show if transfer courses meet Northwest Core requirements, even though the courses are not directly equivalent, or transfer as electives only:

| | |
|--------------------------------------|----------------------------------|
| 900 ACT English Credit | 912 Math |
| 901 English 111 | 915 Digital Literacy |
| 902 English 112 | 916 Humanistic Studies |
| 903 Oral Communication | 918 Science Lab |
| 904 American Government (with MO) | 919 Anthropology |
| 924 American Government (without MO) | 920 Lower Division Elective |
| 905 American History | 922 Math Pre-requisite |
| 906 Social Science | 950 American Sign Language |
| 907 Behavioral Science | 980 B.T. credit only, Gen Ed. |
| 908 Literature | 988 B.T. credit only |
| 909 Humanities/Philosophy | 990 Upper Division Elective |
| 910 Fine Arts | 999 Elective, before summer 1990 |
| 911 Science | |

A student has the right to appeal a denial of credit made by the Office of Admissions-Operations to the academic department concerned. If the student is not satisfied with the decision of the academic department, further appeal may be made to Northwest's Transfer & Articulation Officer located in the Student Success Center.

Transfer Students Holding Associate of Arts or Associate of Science Degrees

Students who hold an associate of arts degree from a regionally-accredited institution will have satisfied the Core 42 requirements.

Students who have completed the Core 42-hour block at a Missouri college/university will have satisfied Northwest's Core requirements.

Students who hold an associate of science degree from a regionally-accredited institution will have satisfied The Northwest Core requirements if the student has at least 42 semester hours of general education with the following distribution of courses:

- Communication skills in the English language—nine credit hours total, six credit hours in written communication and three credit hours in oral communication;
- Mathematical sciences—three credit hours minimum;
- Natural Sciences—seven credit hours minimum from at least two disciplines, including one course with a lab component;

- Humanities and Fine Arts—nine credit hours minimum from at least two disciplines;
- Social and Behavioral Sciences—nine credit hours minimum including one Civics course;
- Five additional credit hours in any of the sections above.

These 42 hours must be classified at a level designated for application towards a baccalaureate degree.

Students should note that additional courses in these areas may be required by specific academic programs that have professional licensure and in that case are not waived by the associate degree.

Transfer Guides

Northwest Missouri State University has a number of transfer guides with various community colleges. These guides express a shared commitment to increasing the opportunity for students to gain access to and succeed in higher education. By clarifying transfer policies and procedures which assure articulation between programs, the institutions involved seek to assist students in making a seamless transfer. A current listing of schools and guides may be found at <https://www.nwmissouri.edu/admissions/apply/transfer/equivalencies.htm>.

Supersede Policy for Transfer Courses

When a student completes the same course two or more times before transferring to Northwest, credit will be awarded for only the highest grade when calculating the transfer grade point average. If a student completes the same course, once at Northwest and once at another institution, the procedures listed in Superseding Grades/Repeating Courses (p. 61) will be followed like so:

- If the student receives a grade of “D” or “F” in transfer, that grade will be superseded when the class is completed with the same or higher grade at Northwest. A petition for superseding must be completed at the time of registration in the course and can be completed in CatPAWS. The transfer grade will be averaged with the Northwest grade if a lower grade is received at Northwest.
- If the student receives a grade of “A”, “B”, or “C” in transfer, that grade will always be averaged with the Northwest grade that is earned. The grade in the transfer course will never supersede the grade earned when the course is taken at Northwest, regardless of the grade received during the time it was taken at Northwest.

To Transfer:

- Carefully and promptly complete the Application for Admission and submit it to the Northwest Office of Admissions - Operations.
- Applicants must also submit current official transcripts from each regionally accredited college or university previously attended (a composite transcript will not be accepted). Students currently enrolled should submit an official partial transcript at the time of application.
- Students who are transferring into Northwest’s School of Education should see The School of Education for additional requirements.

International Student Admissions

Before deciding to attend Northwest, an international applicant should examine his or her financial situation very carefully. The U.S. Department of Homeland Security - and its related departments of Immigration and Customs Enforcement, Student and Exchange Visitor Program, and Citizenship and Immigration Services - requires Northwest to certify that international students have been accepted for full-time enrollment and have sufficient funds to meet all expenses: tuition, housing, transportation, etc. Northwest requires a Statement of

Support and a bank statement from the student's family, sponsor, or government. The statement certifies that tuition, room and board, and personal funds are available, and that the student is permitted to export and exchange those funds into the United States. Without this certification, an I-20 Form cannot be issued. Additional requirements are following.

Waiver of the English Proficiency Requirement

The following circumstances will waive the requirement of a score report from the Test of English as a Foreign Language (TOEFL), International English Language Testing System (IELTS), Pearson Test of English Academic (PTE Academic) or other English proficiency tools:

1. If the applicant's native language is English.
2. If the applicant has taken the ACT and received a composite score of 21 or the SAT (Evidence-Based Reading and Writing + Mathematics) with a score of 1060.
3. If the applicant graduates and receives a high school diploma in the United States. The transcript will be reviewed and if the student has low grades and/or a low ACT/SAT, additional proof of English proficiency may be required.
4. If the applicant received an undergraduate degree from an accredited U.S. institution or a country where the native language is English.
5. If the applicant is transferring to Northwest from another regionally-accredited institution in the United States and has completed the equivalent of English Composition I (10-111) and English Composition II (10-112) with grades of C or better.
6. If the applicant intends to be non-degree seeking at Northwest and/or is visiting from another college or university.

New International Students

To be fully admitted to Northwest, students must submit each of the following items to the Office of Admissions - Operations, Northwest Missouri State University, 800 University Drive, Maryville, Missouri, 64468-6001, USA. Forms are available by request from the Northwest Office of Admissions - Operations.

1. Application for admission (as appropriate).
2. Official academic transcripts from each secondary and post-secondary institution attended. If students are currently enrolled in a college or university, they should send partial transcripts. Transcripts in a language other than English must have official translations attached to the official transcripts. All transcripts become the property of Northwest and cannot be released. Syllabi (course descriptions) must be submitted for all courses taken at universities outside the United States. Transcripts will not be evaluated until syllabi have been received. Secondary school transcripts from Nepal must be certified by USEF-Nepal.
3. Application fee of \$75.00 in U.S. currency. This is a non-refundable fee.
4. Students entering Northwest are required to have a reading, writing, and conversational knowledge of the English language. If the student's native language is not English, he or she must submit a score report from the Test of English as a Foreign Language (TOEFL), International English Language Testing System (IELTS) or Pearson Test of English Academic (PTE Academic). Undergraduates should have a minimum score of 61 on the Internet-based TOEFL, a 5.5 on the Academic IELTS or a 44 on the PTE Academic. English proficiency scores must be less than two years old at the time the student starts classes. Additional options used to verify English Proficiency include C1 Advanced, Duolingo, EIKEN, GTEC, iTEP, MET, SAKAE and TOEIC. The Northwest website may be referenced for score requirements.
5. Copy of passport.

6. If available, official ACT or SAT scores will be used to determine scholarship eligibility.

Following admission, the following items must be submitted to the International Involvement Center before preparation of the I-20.

1. Statement of support (form provided by Northwest) from family member or sponsor stating amount and years of support.
1. Bank statement verifying that the sponsor has the balance provided on the statement of support. Information may be submitted electronically and should contain the available funds, account holder's name and number, date of issue, and bear a bank official signature.

International Application Deadlines

For students applying from their home country, the application and documentation noted above must be received by the Office of Admissions - Operations prior to the deadlines noted below. Applications not complete by the deadline will be considered for the next admission session. These deadlines allow for the evaluation of transcripts for admission and for transfer of credit, time to process, send and receive an I-20 and time for the student to obtain a visa.

| | Application Deadline | Document Deadline |
|---------------------------|----------------------|-------------------|
| Fall (August) Semester | June 15 | July 1 |
| Spring (January) Semester | November 1 | November 15 |

For students transferring from a school within the U.S., the application and documentation must be received by the Office of Admissions - Operations prior to the deadline noted below. Applications not complete by the deadline will be considered for the next admissions session.

| | Application Deadline | Document Deadline |
|---------------------------|----------------------|-------------------|
| Fall (August) Semester | July 15 | August 1 |
| Spring (January) Semester | November 15 | December 1 |

I-20 Form

A Statement of Support completed and signed by the student's family, sponsor, or government and a bank statement are needed before an I-20 can be issued. Student visas should be obtained before entering the United States, as converting from a tourist visa to a student visa is not assured.

An I-20 Form will be prepared for the applicant after the application and all necessary information have been received and the Office of Admissions - Operations has taken favorable action on the application. The I-20 Form cannot be prepared before the application is officially reviewed and the applicant accepted.

Freshman International Student Admissions

Freshman admission for international students is evaluated on an individual basis. Admission is offered to those students who possess academic qualifications equivalent to those required for domestic first-time freshmen. Consideration is given to the courses taken and grades received in secondary school, as well as to results of school leaving examinations and certificates. The integrity of the student's native educational system is respected in regard to the university entrance requirements in the native country; students not eligible for university admission in their native country will not likely be granted admission to Northwest.

For comparison purposes, admission requirements for domestic first-time freshmen must include the following:

1. A minimum high school grade point average of 2.00 or "C" average and;

2. A college-preparatory curriculum in secondary school, including courses in mathematics, science, language and social studies.

International Transfer Students

In addition to the items listed previously, undergraduate and graduate international students who are transferring to Northwest from another American university should also submit a Transfer Form to the International Involvement Center following their admission. To be admitted to Northwest as a transfer student, students must also meet all the standards and requirements of American transfer students. (p. 23) Students who have less than 24 transfer hours completed will be considered for admission on the basis of freshman admission requirements as well as transfer admission requirements.

Special Admissions

Non-Degree-Seeking/Visiting Students

Individuals who do not wish to pursue a degree at Northwest may apply and be accepted as an undergraduate non-degree-seeking student. The student must be 18 years of age or older or have graduated from high school to be eligible for non-degree status. ACT or SAT scores are recommended for advisement purposes. Non-degree seeking students are limited to an enrollment of six hours per semester and can only receive 18 semester hours credit as a non-degree-seeking student. To continue taking coursework beyond the 18-hour limit, a student will have to reapply as a degree-seeking student and must meet regular admission requirements. Non-degree-seeking students are not eligible to receive federal student financial aid.

Re-Admission of Former Students

Undergraduate students who have been absent from Northwest for one semester or longer (not including summer) must re-apply for admission. Students who have attended other universities since attending Northwest must submit a complete and official transcript(s) of that college credit with their application for re-admission; coursework completed since attending Northwest must be at least "C" level work to qualify for re-admission. Students returning on probation or after being suspended must also provide an essay for re-admission. Contact the Northwest Office of Admissions - Operations for further information.

Adult Students

Anyone who is 24 years of age or older at the time of application will be considered an Adult Student. If they have not attended another regionally accredited institution following completion of their high school career or equivalency, Adult Students will be considered freshmen and admission will be based on their high school GPA or GED/HiSET score, and a personal essay. If available, ACT/SAT scores will be used for scholarship purposes and for course placement. If the Adult Student applicant has completed some coursework at a regionally accredited institution but fewer than 24 transferable hours, admission will be based on their high school GPA or GED/HiSET score, a personal essay, and review of their college coursework.

GED/HiSET

Based on the 2014 GED score standards, a student may be considered for admission after receiving an equivalency certification meeting the following criteria: a total score of at least 660. Scores from the HiSET exam, the high school equivalency test adopted by Missouri in 2014, are also accepted with a score of 75 or better. Applicants who do not meet these requirements will be reviewed on an individual basis. ACT/SAT may be required unless applicant is an adult student. An official, partial high school transcript must also be submitted.

Early Release

High school students who have satisfied all the credit requirements for a diploma at their high school before completing eight semesters at their high school may be considered for early

release admission to Northwest. In order to satisfy high school attendance requirements, a letter of early release from the Board of Education governing the high school should be on file in the Northwest Office of Admissions - Operations. The University is not responsible for monitoring attendance or academic performance for high school purposes. Students are limited to enrolling in lower-level courses.

Dual Credit for High School Students in Northwest Courses

High school students who have not yet graduated from high school may be enrolled at Northwest in an on-campus course, online course, or a course taught at the local high school while still attending high school. Students must submit a Dual Credit application for admission, along with an official high school transcript. In addition, the student must submit a letter of recommendation and release (for an on-campus course) from his or her high school counselor or principal for each semester enrolled when enrolling in dual credit coursework.

To be eligible to enroll in an on-campus or off-campus course for college credit, juniors and seniors must have at least a 3.00 cumulative grade point average on a scale of 4.00 OR an ACT composite score of 21 or higher and have at least a 2.50 cumulative grade point average on a scale of 4.00 OR a Combined Percentile Index of 100 or higher and have at least a 2.50 cumulative grade point average on a scale of 4.00. Sophomores must have at least a 3.00 cumulative grade point average on a scale of 4.00 OR an ACT composite score of 21 or higher and have at least a 3.00 cumulative grade point average on a scale of 4.00 OR a Combined Percentile Index of 100 or higher and have at least a 3.00 cumulative grade point average on a scale of 4.00. Freshmen must score at the 90th percentile or above on the ACT to be eligible to enroll and have at least a 3.00 cumulative grade point average on a scale of 4.00. In addition, placement exams and specific ACT sub-scores are required for select courses. ACT/SAT Superscores will be accepted. Additional scores such as SAT, ASPIRE, Pre-ACT and PSAT may also be considered. Homeschooled students and those attending unaccredited high schools must submit test scores for dual credit admission. If dual credit is in a music activity, the student is also required to obtain the approval of the appropriate high school and University instructor.

Northwest Students at Conception Seminary College

In order to extend the range of course options, Northwest seniors and juniors have the opportunity to enroll for credit in certain courses at nearby Conception Seminary College in Conception, Missouri. The agreement is reciprocal: Conception Seminary College students are able to cross-register for Northwest courses. Students are eligible if they are in good standing at Northwest. The first nine semester hours earned at Conception Seminary College will be considered residence credit at Northwest.

Graduate Study

Northwest offers graduate programs for master's degrees, graduate certificates and specialist in education. Requirements are specifically stated in the Graduate Catalog.

Dual Enrollment of Northwest Seniors

Northwest seniors who have less than 30 semester hours to complete their baccalaureate degrees, and who need less than a full enrollment of required undergraduate courses in any term of their senior year, may petition to enroll for graduate level courses. Students must have at least a cumulative 2.50 GPA.

To enroll, complete the Petition for Dual Enrollment and submit to the Graduate Office at least one semester prior to the anticipated dual enrollment. The maximum academic load for dually-enrolled students is 16 semester hours in a semester with no more than seven semester hours in a four-week summer session. The student may not continue past 15 graduate hours unless he or she has met the requirements for admission and candidacy in the graduate program.

Course Numbering

The 600-level courses are reserved for graduate students only, while 500-level courses are available for either graduate or undergraduate credit. The 700-level courses are reserved for students pursuing a Specialist in Education degree. The 800-level courses are reserved for those students pursuing the Ed.D. in Leadership.

For More Information

For further information on any aspect of the Northwest graduate program, consult the current *Graduate Catalog*, available online only at <http://www.nwmissouri.edu/academics/catalog/index.htm>.

Fees and Costs

See Student Account Services/Cashiering, www.nwmissouri.edu/studentaccounts/tuition.htm.

General Information

Statements concerning fees are announcements and not to be regarded as offers to contract. The University reserves the right to change fees and other charges at any time by published notice before the opening of any semester or session.

Courses taken for audit or courses taken for reduced credit or no credit will be counted at their normal credit value in computing the amount of fees to be paid.

It is the student's responsibility to pay fees and any other financial obligations to the University as they become due. The non-payment of any financial obligation may result in the administrative withdrawal of the student or in legal action (at the University's option). I agree that if my financial obligations are not paid when due, and the University should retain an attorney or collection agency for the collection, I agree to pay all fees of collection, including reasonable interest, reasonable attorney's fees (even if a lawsuit is filed) and reasonable collection agency fees. I understand that the fees assessed by a collection agency will be a percentage of the financial obligation to be collected. Records, future enrollment and charging privileges may be withheld for failure to meet payment deadlines. Delinquent accounts may be referred to external collection agencies and/or may be reported to national credit bureaus. The student is obligated to pay all fees of collection including collection fees and attorney's fees.

If the University removes a student from the class rolls for any reason, charges will be reduced according to the schedules at <https://www.nwmissouri.edu/studentaccounts/financialdates.htm>. Such removal will not forgive any amounts due to the University, and records and enrollment will be withheld until all obligations are cleared. See "Transcript/Diploma/Enrollment Hold (p. 56)."

The appeal body for most financial matters is the Student Financial Appeals Committee. Forms are available online at www.nwmissouri.edu/studentaccounts/forms.htm.

Residency for Fee Purposes

A student's residency status for fee purposes is determined at the time of admission according to state policy (Code of State Regulations 6 CSR 10-3.010). Copies of the residency policy and petitions for change of residency status are available on the Northwest webpage at <https://www.nwmissouri.edu/admissions/apply/residency.htm> or by request from the Office of Admissions. Petitions must be submitted to the Office of Admissions prior to the beginning of the semester for which the change is desired. A student who qualifies for Missouri residency maintains that residency as long as he/she is continuously enrolled.

Tax Credits

Education tax credits may be available to students or parents. Contact your tax preparer for more information. Tax credit links are available through the Student Account Services/Cashiering Office website (www.nwmissouri.edu/studentaccounts/taxlinks.htm).

Billing Policy – Email

Bills are emailed to the student's University email address. Bills are also available through CatPAWS, in the Payment Center and are the student's responsibility. Failure to review a bill does not constitute a valid reason for not paying a bill on time.

If the student has granted authorization, bills are sent through the online billing system. The student will receive an email at their Northwest email address. If they have granted Additional Authorized Access, the user will receive an email notification of the new bill to which they can view online.

Authorizations

Students can authorize online access to parents or other third party individuals. There are two separate authorizations to be completed. One is for account information and online payment. The second allows verbal information to authorized individuals and online access to grades and financial assistance.

1. Authorize online access to view student account and pay bills:
 - a. Students log into CatPAWS
 - b. Click Account Tab
 - c. Click Payment Center
 - d. Click Authorized Users and complete sign up
2. Authorize Release of Information—concerning grades, financial assistance and billing:
 - a. Log into CatPAWS
 - b. Click Student tab
 - c. Click Authorize Release of Information and complete form

Tuition and Fees

See Student Account Services/Cashiering,
www.nwmissouri.edu/studentaccounts/tuition.htm

Fees for Special Programs

See Student Account Services/Cashiering,
www.nwmissouri.edu/studentaccounts/specialprograms.htm.

Room and Board

See Student Account Services/Cashiering,
www.nwmissouri.edu/studentaccounts/roomcosts.htm.

Housing Contract

A reservation and room prepayment of \$50 must accompany all applications for housing. This payment is refundable if the student cancels their contract by June 1.

Miscellaneous Fees

A list of miscellaneous fees is available on the Northwest website at <https://www.nwmissouri.edu/studentaccounts/index.htm> by selecting Page Menu, click Important Links, click Miscellaneous Fees.

Senior Citizen Fee Waiver

Standard tuition (incidental and designated fees) for individuals 65 and older are waived. Individuals under this policy must pay any other fees that may be required. Enrollment in a class for this group is contingent on available space.

University Installment Plan

Students are encouraged to pay the total balance on or before the due date to avoid finance charges. Students will automatically be enrolled in an installment plan at the time they receive their bill. Students can view their installment amounts in the payment center.

- A 1% finance charge will apply to any unpaid, billed balance on the 16th of each month.
- Financial aid and scholarships will reduce the overall balance on your account and cannot be used towards an installment payment.
- If financial aid and/or scholarships are not authorized to your account by the due date, you will be subject to a finance charge. If a scholarship check is made payable to the student and Northwest, student endorsement will be required before it can post to the student's account.
- Monthly automatic withdrawal available.

Refund/Reduction in Charge Schedule

| Refund/Reduction | Full Semester Course | Block, Seven Week and Online Professional Course | Single Summer & Intersession Course |
|------------------|----------------------|--|-------------------------------------|
| 100% reduction | 1 week | 2 days | 1 day |
| 75% reduction | 1 week | 2 days | 1 day |
| 50% reduction | 1 week | 2 days | 1 day |
| 25% reduction | 1 week | 2 days | 1 day |

Note: *Cannot swap dropped courses. All added courses are charged 100%.*

1. Refunds are based on FULL payment of all fees assessed.
2. Payments made by financial aid may be refunded back to the program.
3. Refunds/reductions in charge are based on initial enrollment.
4. Refunds are not made if under \$1.00 (unless requested at the Student Account Services/Cashiering Office).
5. In withdrawal situations, Tower Yearbook charges are reversed through October 15.
6. Refunds for off-schedule classes are prorated in line with the published schedule based on number of class meetings.

Determination of Return of Federal Aid

1. Percentage of payment period (first day of class through last day of final examinations) completed is the number of calendar days the student remained enrolled divided by the total number of calendar days in the payment period.
2. Percentage of Title IV funds eligible for disbursement earned is the percentage of the payment period completed through the 60% point and is 100% thereafter.
3. Percentage unearned (to be returned to Title IV programs) is 100% minus the percentage earned.
4. The return of the Title IV funds will be allocated in the following order up to amounts received from each program: Unsubsidized Direct Loans, Subsidized Direct Loans, Direct PLUS Loans, Federal Pell Grants, Federal Supplemental Educational Opportunity Grants (FSEOG), TEACH Grants, Iraq and Afghanistan Service Grants (IASG).

5. The University will return up to the unearned percentage multiplied by the total institutional charges. The student is responsible for any remainder.
6. Amounts to be returned by the student to loan programs may be paid according to the terms of the promissory note. Amounts to be returned by the student to grant programs are reduced by 50%.

Examples of the application of this policy may be obtained by contacting the Office of Scholarships and Financial Assistance.

Calculated refund amounts due the students will be automatically credited to any unpaid charges.

Financial Assistance

Available Assistance

Northwest awards and/or administers many types of financial aid from federal, state, University, and private sources. Financial aid can be divided into four general categories:

- Grants, which are financial gifts usually based on financial need.
- Scholarships, which are financial gifts usually based on academic, athletic, or other high achievement.
- Loans, which can be from the University or the Department of Education.
- Employment, which can be either on- or off-campus. If the student is employed on-campus, he or she may be “regularly” employed, or employed as “work-study.”

Grants and scholarships are gifts and usually do not have to be repaid. Loans must be repaid with interest at a future date, which usually commences six months after the student ceases to be enrolled as at least a half-time student. For information, contact the Office of Scholarships and Financial Assistance, (660) 562-1363.

Financial aid programs assume that the primary responsibility for educational and living expenses rests with the students and/or parents to the extent they are able to provide assistance. Most of Northwest’s aid is designed to supplement family resources. In addition to parental contributions and student savings, other sources of non-University funding to be considered are monetary service and religious organization awards, and high school awards.

Maximum Time Frame and Credit Hours

Undergraduate students are eligible to apply for aid for up to one-and-one-half times the normal program length. The normal program length for an undergraduate degree is 120 credit hours; therefore undergraduates are eligible to apply for aid for up to 180 attempted semester credit hours, including transfer credit.

Students who have attempted the maximum number of credit hours are ineligible for any type of federal financial aid. A change of major does not extend the number of credit hours that may be attempted.

Application Procedures

Students should contact the Northwest Office of Scholarships and Financial Assistance on or after October 1 for information and application procedures for federal student financial aid. Some of the information required on the Free Application for Federal Student Aid (FAFSA) must be taken from the student’s and/or parents’ federal income tax forms. Northwest holds all financial information in strictest confidence and uses the information only to determine eligibility for federal aid. See the “Student Records (p. 66)” section of this catalog for more information on records privacy.

Deadlines

For maximum consideration, applications and required documentation should be submitted at the earliest possible date after October 1 for the following academic year. Some federal, state, and institutional programs have limited funds that will be awarded to the earliest pool of applicants.

Aid Processing

The Office of Scholarships and Financial Assistance will attempt to meet all students' financial need pending the availability of funds. Federal financial assistance will continue to be awarded until all funds are committed or until the specified deadlines, whichever occurs first.

The priority order for awarding federal financial assistance is as follows:

- Federal Pell Grant
- Iraq-Afghanistan Service Grant (IASG)
- Federal Supplemental Educational Opportunity Grant (must be Pell Grant eligible)
- Federal Work Study Program
- Federal Direct Loan (subsidized)
- Federal Direct Loan (unsubsidized)
- Federal Parent PLUS Loan

Aid Offer Notification

The Office of Scholarships and Financial Assistance will notify students via their university assigned e-mail account, when their aid offer is available and how it can be accessed on their CatPAWS account in the Secure Area. Students may accept all or part of their aid offer. All first-time borrowers at Northwest must also complete a loan entrance counseling session and a master promissory note before loan funds can be credited to their account.

Satisfactory Academic Progress

To be eligible to receive federal student aid, students must be maintaining satisfactory academic progress toward a degree or certificate. Federal law requires that the University monitor both qualitative and quantitative academic progress of its students.

Quantitative progress requires students to successfully complete a certain percentage of attempted courses. Qualitative progress requires students to earn predetermined Northwest and cumulative grade point averages. Students must be in compliance with the University's written standards for both qualitative and quantitative progress to maintain eligibility for any type of federal financial aid.

The University will attempt to notify students by email when they have not maintained satisfactory academic progress. Students are responsible for being aware of the satisfactory academic progress policies and will remain ineligible even if the University's notification is not received.

When a student does not meet the qualitative or quantitative academic progress standard they will be placed on Financial Aid Warning for the next term of attendance. Students remain eligible to receive aid during the warning period and their record will be reviewed for compliance again following their next term of enrollment.

A student who is placed on Financial Aid Warning and does not meet the qualitative and quantitative academic progress standards at the conclusion of the warning period will be placed on Financial Aid Suspension. This suspension status results in the loss of eligibility for all types of financial aid until all SAP standards are met.

Quantitative Progress

Quantitative progress requires students to successfully complete a certain percentage of attempted courses. Final quantitative progress will be determined at the end of each semester.

To be considered making satisfactory academic progress, students must pass at least 67% of the cumulative credit hours which they have attempted.

A credit completion rate is the ratio of a student's total credits successfully completed to the student's total attempted credits. Attempted credits include successfully completed courses, courses dropped after the drop/add period, failed courses, repeated courses, course withdrawals and transfer credits that have been accepted by the University.

Course Audits

Students are not eligible to receive federal financial assistance for courses that have been audited. Courses audited will not be included when determining the number of credit hours a student has attempted or completed.

Incomplete Grades

Courses in which students receive incomplete grades will be counted as hours attempted but will not be counted as successfully completed until the final passing grade is officially posted to the student's permanent record.

Qualitative Progress

Qualitative academic progress will be determined at the end of each semester. To be considered making satisfactory qualitative progress, undergraduate students must have the following minimum Northwest cumulative grade point averages:

| | |
|----------------------------------|------|
| Freshman (0-29 hours earned) | 1.75 |
| Sophomore (30-59 hours earned) | 2.00 |
| Junior (60-89 hours earned) | 2.00 |
| Senior (90 or more hours earned) | 2.00 |

Appeal Process

A student who fails to make satisfactory academic progress may appeal, in writing, the loss of eligibility. Students should provide documentation of circumstances that were clearly beyond their control. Types of documentation may include doctor and hospital reports, legal documents, and written confirmation from a parent or other official sources as deemed appropriate by the Financial Review Committee.

Written appeals and all supporting documentation must be submitted to the Office of Scholarships and Financial Assistance. The Financial Review Committee will review the written appeal, supporting documentation and notify the student in writing of the appeal decision within 14 days from the date received.

In the instance a student feels due process was not provided or believes the Financial Appeals Committee did not give appropriate and timely attention to the petition, the student may contact the Office of Financial Assistance to request a meeting to review the petition with the Director of Financial Assistance.

Failure to Earn a Passing Grade

If a student who began attendance and has not officially withdrawn fails to earn a passing grade in at least one enrolled course for a term, the institution must assume, for Title IV purposes, that the student has unofficially withdrawn, unless the institution can document that the student completed the term. If it cannot be documented that the student completed the term then an unofficial withdrawal calculation will be performed and depending on the proration of the aid, a balance may be owed on the student account.

Financial Assistance Programs

The following types of student financial assistance are available to eligible Northwest undergraduate students:

- Federal Pell Grant
- Iraq-Afghanistan Service Grant (IASG)
- Federal Supplemental Educational Opportunity (SEOG) Grant
- Federal Work Study Program
- Federal Direct Loan (subsidized)
- Federal Direct Loan (unsubsidized)
- Federal Parents Loan for Undergraduate Students (PLUS)
- Federal TEACH Grant
- Access Missouri Grant
- Institutional Employment
- State, Institutional, and Private Scholarships

Withdrawal from the University

If a student withdraws from the University while receiving federal financial assistance, the hours of enrollment will be counted as attempted but not passed. The student must pass the required percentage of cumulative hours attempted to be considered meeting satisfactory academic progress requirements.

For a student who withdraws, the financial assistance award received will be prorated and the unused portion of the financial assistance award will be refunded to the programs involved. Depending on the proration of the aid, a balance may be owed on the student account.

Summer

To determine eligibility for financial assistance during the summer semester:

1. Students must complete a summer financial assistance application and submit it to the Office of Scholarships and Financial Assistance after enrolling and finalizing their summer course schedule.
2. A Free Application for Federal Student Aid (FAFSA) must be completed for the current academic year.
3. Student must be enrolled at least half-time (6 hours for undergraduate level and 3 hours for graduate level) to receive most types of federal aid.
4. If a student is enrolled full-time (12 hours) and eligible to receive any of the academic renewal scholarships, they will be automatically applied.

Online Aid Applicants

Students must be degree or certificate seeking at Northwest and be enrolled at least half-time through Northwest before federal aid will be processed except for those who qualify for Federal Pell Grants. Students must be enrolled in a minimum of 12 credit hours at Northwest to receive Northwest scholarships or to receive consideration for State of Missouri assistance programs.

- Students choosing to enroll in courses from other institutions concurrently with their Northwest enrollment must file a completed financial aid consortium agreement for each term with the Office of Scholarships and Financial Assistance.
- Consortium agreements are for courses that are not available at Northwest and are necessary to complete degree requirements.
- Each student is responsible for initiating consortium agreements for hours taken each term at institutions other than Northwest.
- Students must have grades from classes covered by a consortium agreement transferred back to Northwest before aid for future terms will be released.
- Contact the Office of Scholarships and Financial Assistance for details.

Taxation of Financial Assistance

Scholarships and fellowships are tax exempt only if used for tuition and fees, books, supplies, and equipment required for the course of study. Scholarship recipients must be candidates for degrees.

Scholarships and fellowships are taxable if designated for purposes other than tuition and related expenses or if attributable to service performed.

Fee reductions for employee dependent graduate students must be reported as taxable income for the employee. For specific information, contact a tax preparation professional.

Veterans' Affairs

The Office of Financial Assistance assists veterans and eligible persons in all phases of enrollment certification and retention of educational benefits, tutorial assistance, and veterans' work-study.

Northwest students receiving benefits from the Veterans' Administration will meet most VA conditions for satisfactorily pursuing a program of study by meeting the University's general catalog requirements. However, a few VA requirements are more stringent than the general catalog requirements.

In addition to their eligible benefits, the following non-Missouri resident students shall be awarded a tuition waiver to ensure they only pay the current in-state tuition rate:

- A participant using educational assistance under either chapter 30 (Montgomery G.I. Bill® - Active Duty Program), chapter 31 (Vocational Rehabilitation and Employment), chapter 33 (Post-9/11 G.I. Bill®), or chapter 35 (Dependents' Educational Act), of title 38, United States Code, who lives in the State of Missouri while attending a school located in the State of Missouri (regardless of his/her formal State of residence) and enrolls in the school within three years of discharge from a period of active duty service of 90 days or more.
- Anyone using transferred Post-9/11 G.I. Bill® benefits (38 U.S.C. § 3319) who lives in the State of Missouri while attending a school located in the State of Missouri (regardless of his/her formal State of residence) and enrolls in the school within three years of the transferor's discharge from a period of active duty service of 90 days or more.
- Anyone using transferred Post-9/11 G.I. Bill benefits (38 U.S.C. § 3319) who lives in the State of Missouri while attending a school located in the State of Missouri (regardless of his/her formal state of residence) and the transferor is a member of the uniformed service who is serving on active duty.
- A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b)(9)) who lives in the State of Missouri while attending a school located in the State of Missouri (regardless of his/her formal State of residence)

and enrolls in the school within three years of the Service member's death in the line of duty following a period of active duty service of 90 days or more.

- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge or death described above and must be using education benefits under either chapter 30, chapter 31, chapter 33, or chapter 35, of title 38, United States Code.

Regular Attendance

VA students must attend all classes according to each instructor's attendance policies. VA benefits will be terminated as of the last date of attendance reported by the instructor for students with unsatisfactory attendance. All VA students using Chapter 30, 33, 1606, and 1607 must verify their attendance monthly on or after the last day of each month. Students using Chapter 30, 1606, and 1607 can verify attendance by using the Web Automated Verification of Enrollment (WAVE) system or by calling 877.823.2378. Students using Chapter 33 must verify their attendance by using the VA's text message or email process.

Unsatisfactory Progress

The University is required to notify the Veterans' Administration that a student did not make satisfactory progress if the student:

1. receives a non-punitive grade in any course;
2. fails or withdraws from all classes; or
3. is suspended by the University.

Education benefits will be terminated for students who fail to make VA satisfactory progress.

Classes Not Completed

The Veterans' Administration may require students to repay benefits received for classes dropped. All VA students must report changes in enrollment status, including drop/add/withdrawals to the school certifying official. The VA will only pay for courses that lead to a standard degree or certificate. VA benefits will not be paid for courses in which students have already earned a satisfactory grade, unless the university state that a higher grade is necessary for the completion of the curriculum. VA benefits will not be paid for courses that a student elects to audit.

Delayed/Incomplete Grades

Delayed/incomplete grades must be removed by the end of the next semester of enrollment or they will be changed to grades of "F."

VA students should contact the Office of Veterans' Affairs before deciding to repeat a course, withdraw from the University, drop a class, take a delayed grade or interrupt class attendance to assure compliance with VA regulations.

Veterans' Benefits Tuition and Fee Payments

In the event a Chapter 31 or Chapter 33 payment or disbursement of tuition funds is delayed by the US Department of Veteran's Affairs, the University will ensure students are not penalized, including any assessment of late fees, denial of access to courses, libraries or other institutional facilities, or require the recipient to borrow additional funds to cover any financial obligation to the University that will be covered by the benefit payment.

Contact Information

For information and assistance in completing and maintaining the proper documents to receive VA benefits, a student should contact the Office of Financial Assistance by calling 660.562.1363 or by e-mailing finaid@nwmissouri.edu.

Vocational Rehabilitation

All students receiving vocational funding from the State Department of Rehabilitation or Veterans' Administration should contact the Office of Scholarships and Financial Assistance for certification and counseling assistance.

Registration

Academic Advisement

Northwest provides all undergraduate students with personalized advising that ensures their individual major and career goals are aligned and supported. First-year student academic advisement is decentralized in academic departments/schools and includes a combination of professional and faculty advisors. The personalized advising approach supports students as they transition and includes:

- assistance with course selection and student registration
- connections to campus resources
- introduction to profession-based experiences to support their major

Select students may be required to work with a success coach as part of his/her academic recovery plan, however, success coaching is available optionally to all students.

Students are expected to read the regulations in the University catalog and adhere to them. The student is responsible for knowing the regulations and policies and for meeting the requirements for a degree or certificate.

General Registration

A registration period is set aside, with published dates and time schedules, preceding the beginning of courses for each semester or session. Registration instructions are available on the Registrar's website. Off-campus and off-schedule courses have specific registration deadlines which may differ from the regular registration periods.

Preregistration

The University provides a period for currently enrolled students to preregister for classes during regular terms.

A student who has preregistered and does not return for the term must notify the Office of the Registrar in writing before the date of general registration so that his or her enrollment can be cancelled (email: registrar@nwmissouri.edu). Students who fail to meet the deadline must complete withdrawal as outlined in Adding, Dropping, and Withdrawals (p. 48) and are subject to fees.

Students receiving veterans' benefits should consult with the coordinator of Veterans' Affairs prior to withdrawal.

Deciding Major and/or Degree Objective

The student who is undecided about a major or pre-professional interest, or perhaps about both, should look upon the freshman year, and perhaps also the sophomore year, as exploratory.

New students who have not yet made a decision on what major to pursue are asked to declare a Meta-Major, which is a set of coursework designed to get the student to an academic goal in the fastest and most efficient way. The four Meta-Majors to choose from include: Business, Education, Sciences, and University Studies. If one of the first three areas does not fit the student, selecting the University Studies Meta-Major provides additional time for exploration and deliberation on a major while earning Northwest Core credits. All students are required to complete 44 hours of Northwest Core coursework, and 4 hours of Institutional Requirements, so the Meta-Major assists in providing the framework needed to make a final decision.

Verification

Students are required to verify registration through CatPAWS by supplying information in regard to local address, emergency contacts, and other pertinent data prior to the first day of class. Enrollment will be cancelled for students who do not verify by the published deadline.

Policies and Regulations

Academic Policies

Academic Forgiveness

Northwest Missouri State University recognizes that students may have challenging semesters in which they find themselves in a situation that is not optimal for their best academic performance. This academic forgiveness policy seeks to provide students with the means to recover from a less than ideal academic situation by offering them the opportunity to ask for academic forgiveness for all or part of a single semester. There are a number of reasons why a student may need to utilize this option. For example, a student may have chosen a major that is not well-suited to them, and finds that they are not able to successfully move through critical coursework. The student may find a major that is suited to their ability, but continues to be weighed down by courses they no longer need to take.

Criteria:

1. Students will have the opportunity to retroactively remove all or part of their credit hours from their grade calculation for one semester.
2. Only a grade of C, D, or F may be forgiven.
3. Academic Forgiveness can only be awarded once.
4. Forgiven courses will show on the transcript and include a new grade designation, but not be included in the grade calculation.
5. Eligible students would be in the process of earning their first undergraduate degree. Post-Baccalaureate and Graduate students are not eligible.
6. The student must have completed at least one semester and at least 12 hours at a 2.0 or higher after the semester to be forgiven to be eligible to make the request.
7. Students who leave the university and return are eligible for Academic Forgiveness, but must have completed one semester of college-level work (at Northwest or another institution) and 12 hours at a 2.0 since the semester to be forgiven.
8. Students do not have to be currently enrolled to make the request.
9. The student must make the request prior to graduation.
10. If the semester to be forgiven is the penultimate (next-to-last) semester completed for the degree, the student must make the request prior to finals week of the final semester, and degree conferral may be delayed.
11. Only Northwest credit can be forgiven.
12. If a student chooses to retake a course that has been forgiven, the forgiven course would count as a previous attempt.
13. Students still need to meet Satisfactory Academic Progress for financial aid purposes.
14. Courses in which the student has violated Academic Dishonesty policies will not be forgiven.

Procedure:

- It is recommended that students first discuss the Academic Forgiveness Policy with their academic advisor.
- If a student chooses to request academic forgiveness, the process is initiated in the Student Success Center with the appropriate form. This ensures the student is making an appropriate decision, as it may be in their best interest to simply supersede a course or petition due to extenuating circumstances, as this can only be employed one time.
- The Registrar's Office will verify eligible classes and process the request.

The most up-to-date Academic Forgiveness policy can be found in the University Policy Library located at <https://www.nwmissouri.edu/policies/academics/index.htm>.

Academic Integrity Code**Undergraduate and Graduate**

Code of Academic Integrity: The students, faculty, and staff at Northwest endeavor to sustain an environment that values honesty in academic work, that acknowledges the authorized aid and intellectual contributions of others, and that enables equitable evaluation of student work. Sustaining academic integrity at Northwest is the responsibility of the entire university community.

Students are responsible for performing with integrity in all academic situations. Students must be especially attentive to academic integrity whenever submitting work for evaluation, honors, or publication.

Students are responsible for understanding the nine areas of academic behavior which violate the Code of Academic Integrity:

1. knowingly obtaining unauthorized aid or information;
2. knowingly giving unauthorized aid or information;
3. committing plagiarism from written, electronic, or internet sources;
4. misrepresenting facts or data;
5. offering bribes;
6. using library resources unethically;
7. using computer resources unethically;
8. knowingly engaging in acts of deception, falsification, or misrepresentation that interfere with equitable academic assessment and evaluation; and
9. knowingly assisting in any of the above practices.

Faculty and staff will bring charges of violation when a preponderance of the evidence indicates that one or more of the prohibited nine academic behaviors has been committed.

Students who have witnessed, or who have evidence of, a violation of the Code of Academic Integrity are encouraged to speak with a faculty or staff member. Faculty and staff are obligated to treat seriously allegations of violations brought to their attention by Northwest students. When faculty or staff believe a preponderance of the evidence indicates a violation has occurred, the evidence provided by a student may be used by the faculty or staff filing an official charge of violation.

If a student feels he/she/they has been erroneously charged with a violation of the Code of Academic Integrity, the student has a right to appeal. Appeals committees, which determine whether there is a preponderance of the evidence to sustain the charge, will offer charged students an opportunity to review all evidence and to provide oral testimony. Appeals must be made in writing within 10 academic days of receipt of the official letter of violation.

If the violation is related to a course that the student is currently enrolled in, the instructor may impose a course-level sanction up to and including failure of the course. Course-level sanctions for violations are at the discretion of the individual faculty member.

Any violation of the Code of Academic Integrity will initiate a review by the Academic Integrity Panel, whose membership includes university students, faculty, and staff. After reviewing a student's academic record and all violations, the Academic Integrity Panel may recommend to the Provost an administrative sanction up to and including dismissal from the university.

Any changes to the Code of Academic Integrity must be implemented following the close of the academic year in which the changes are approved.

The full Code of Academic Integrity can be found in the University Policy Library at the following link: <https://www.nwmissouri.edu/policies/academics/Academic-Integrity.pdf>.

Academic Load

The normal load for an undergraduate student is 14-18 academic hours per semester.

- Courses taken for audit are included in the academic load.
- There is a limit of 6 activity hours per semester.
- Combined academic and activity hours cannot exceed 24 hours in a semester.
- For honors and certificates of attendance, an undergraduate student is considered to be full-time with 12 academic hours in any semester.

Before a student can petition for excess credit, he or she must have completed one semester of full-time academic work at Northwest.

- A student who has a Northwest and overall GPA of 3.00 or above may take no more than 21 academic hours during any semester.
- A student who has a Northwest and overall GPA of 2.00–2.99 may take no more than 18 academic hours in any semester.
- A student who has a Northwest and/or overall GPA below 2.00 may take no more than 16 academic hours in any semester. Petitions forms are available in the Office of the Registrar, and online at www.nwmissouri.edu/registrar.

Students must petition for exceptions to the above policies. Petition forms are available in the Office of the Registrar and online at www.nwmissouri.edu/registrar.

Academic Probation, Academic Suspension, and Dismissal

A student who has both a Northwest and cumulative (Northwest and transfer) GPA of at least 2.00 is considered to be in good standing. Students not in good standing will be placed on academic probation, suspension, or dismissal.

Probation

The purpose of academic probation is to alert students that the quality of cumulative academic work is unsatisfactory. The following terms and conditions apply:

- Any student classified as a freshman whose Northwest or cumulative grade point average falls below a 1.75 on a 4.00 scale is automatically placed on academic probation.
- Any student classified as a sophomore, junior, or senior whose Northwest or cumulative grade point average falls below 2.00 is automatically placed on academic probation.
- A student on academic probation is limited to 16 academic hours per semester. This enrollment restriction will apply as long as the student is on academic probation.
- Any student once placed on probation remains on probation until his or her Northwest and cumulative grade point average is at least a 2.00.

Suspension

A student who enters a semester on academic probation and fails to earn a semester GPA of 2.00 or higher will be suspended unless the student has both a Northwest and cumulative (Northwest and transfer) GPA of 2.00 or higher at the end of the semester. The following terms and conditions apply:

- A student on probation who falls further behind (i.e., who does not make at least a 2.00 grade point average for any semester) shall be automatically suspended for two consecutive semesters.
- A second suspension will be for three consecutive semesters.
- If a student is academically suspended from Northwest or from any other university or college for a total of three times, the student will be dismissed from Northwest.
- A suspended student may apply to the Office of Admissions for readmission following his or her suspension period. Any student who has returned on probation following a period of academic suspension or who has been reinstated by the Committee on Academic Petitions shall earn at least a 2.00 grade point average each probationary semester in order to continue as a student.
- Students allowed to return on probation will remain on probation until his or her Northwest and cumulative grade point average reaches at least a 2.00.

Students must petition the Committee on Academic Petitions for exceptions to the above policies. Petition forms are available in the Office of the Registrar and online at www.nwmissouri.edu/registrar.

Academic Success courses are offered to support students on their academic journey at Northwest Missouri State University. Academic Success courses are required for specific student segments but are also available for optional enrollment as capacity permits.

The following populations are required to take the 1-hour courses listed below where an (X) is designated:

| | 77-150 Academic Success Coaching | 77-151 Strategies for Academic Success |
|---|---|--|
| *First semester freshmen admitted in the Academic Success Coaching program (<i>Note: this program was formerly known as the Assist program</i>) | X | |
| *First semester freshmen earning a 0.0 to a 1.74 GPA in their first semester and placed on academic probation at the end of their first term of enrollment requiring participation in the Academic Recovery program | X | X |

| | | |
|---|---|---|
| *First time transfers admitted on probation requiring participation in the Academic Recovery program | X | X |
| *Students returning to Northwest on academic probation that did not successfully complete the required Academic Success Coaching/Academic Recovery courses in the term in which they exited the institution | X | X |
| *Students returning after academic suspension including those readmitted through the Academic Petitions or Academic Appeals Committee process | X | X |
| First semester freshmen students earning a 1.75 to a 1.99 GPA in their first semester of enrollment. | X | |
| First-time transfers who are placed on probation at the end of their first term of enrollment at Northwest | X | |

*Students required to enroll in the Academic Success Coaching program or the Academic Recovery program may be administratively withdrawn for failure to meet program standards or failure to meet program requirements. This is outlined in the administrative withdrawal policy.

Students that meet the following criteria may petition the requirement to enroll in 77-150/151:

- Returning students that left Northwest on probation/suspension but have since completed at least 15 transferable credit hours with at least a 3.0
- Returning students who have been on extended leave from the institution and have gained significant professional experience.

Students that earned an academic credential such as an associate's degree and finished their last two semesters in good standing are exempt from required enrollment in 77-150/151.

The Director of Academic Success and Retention will consider and make a determination on all petitions to waive Academic Success requirements. For petition consideration, please email studentsuccess@nwmissouri.edu or call 660-562-1726.

INCO 77150 Academic Success Coaching and INCO 77151 Strategies for Academic Success may be repeated, as needed, but only apply once toward the 120-hour graduation minimum.

Adding, Dropping, and Withdrawals

Adding Courses

- Courses may be added during the first day of any short course, two-week course, or four-week course;
- during the first two days of a six-week or eight-week course, and
- during the first seven days of any course longer than eight weeks of instruction.
- This includes adding a course, exchanging courses, dropping courses, and transferring from one section of a course to another section.

Dropping Courses

Student Initiated Course Drop

- The student elects to unenroll from an individual course within the established academic calendar period.
 - Students may drop a course during the first 80% of any length course. (See "Fees and Costs (p. 31)" section.)

- Students who follow the prescribed procedure for dropping a course will have no grade entered on the permanent record (transcript).
- Students who do not follow the prescribed procedure for dropping a course will have a grade of “F” recorded on the permanent record.
- If due to extraordinary reasons—beyond the control of the student—a student desires to drop a course after the deadline (late drop), the student must petition the Committee on Academic Petitions. Extraordinary reasons which may be considered include advisor error, administrative error, or documented medical reasons. Students who are granted a late drop by the Committee will have a “DR” entered on the permanent record.
- Students cannot drop all of the courses in which they are enrolled as that is defined as a “Withdrawal from the University”.

Administrative Course Drop

- During the defined add/drop period, an instructor may request the Office of the Registrar to delete a student from the class roster due to nonattendance. The conditions listed below must be met to initiate the drop.
- The course syllabus clearly states the conditions under which an administrative drop would be initiated.
- The student is warned of a pending administrative drop and provided the opportunity, when possible, to remedy the situation.
- **Courses may not be dropped during the final exam period.**

Withdrawal from the University

Student Initiated Withdrawal

- Students who wish to terminate enrollment at the University (unenroll from **all** courses) during a term should initially consult with their advisor. If, after meeting with the advisor, a student decides to withdraw from the University, the student must complete an Exit Report through the Student Success Center in Owens Library.
- It is extremely important that a withdrawal be completed to ensure that proper entries are made on the academic transcript, that fee refunds are processed (See “Fees and Costs (p. 31)” section.), and that all University records reflect the withdrawal.
- If a student cannot initiate the withdrawal process in person, he or she should write or email the Student Success Center, so that office can process the withdrawal.
- Students who wish to withdraw from the University must do so before 80% of any semester or shorter-length term has expired.

A “W” will be recorded on the academic transcript for each class.

- Students who do not follow the prescribed procedure to withdraw from the University will have a grade of “F” recorded on the permanent record for all courses.
- Students on academic probation who withdraw from all classes will be readmitted on the same status they held at the time of withdrawal from school.
- If due to extraordinary reasons—beyond the control of the student—a student desires to withdraw from the University after the deadline, the student must petition the Committee on Academic Petitions. Petition forms are available in the Office of the Registrar or online at www.nwmissouri.edu/registrar/petitions.htm.

Academic Administrative Withdrawal

When it is in the best interest of Northwest Missouri State University for a student to withdraw, a student will be given a W, put on administrative hold, and given notice that they are about to be withdrawn. This action will result in removal of all credits associated with courses that have yet to be completed in the semester in question, and the student will be administratively withdrawn from the University. An administrative withdrawal does not affect the student's grade point average.

- Consistent with the University definition of Administrative Withdrawal stated above, an Academic Administrative Withdrawal can be implemented should the following conditions arise:
 - A student is administratively dropped from all enrolled courses during a semester. The Registrar will initiate the process for administrative withdrawal.
 - An admitted student with a requirement to participate in the Academic Success Coaching program does not meet program standards or fulfill program requirements. The Director of Academic Success and Retention will initiate the process for administrative withdrawal that may include suspension from the University for a specified period.
 - A student participating in the Academic Recovery program does not meet program standards or fulfill program requirements. The Director of Academic Success and Retention will initiate the process for administrative withdrawal that may include suspension from the University for a specified period.
 - Non-payment of fees. The Student Account Services Office will initiate the process for administrative withdrawal.
 - Students who are administratively withdrawn for non-payment of fees are prohibited from attending classes.

Academic Administrative Withdrawal Appeal: All students who are withdrawn under this policy have the right to appeal the decision to the appropriate Associate Provost. The appeal must be made in writing within ten business days of the withdrawal decision, and address reasons the student feels they should be reinstated. The appeal can include information not previously available, including extenuating circumstances that may not have known. The Associate Provost has the ability to call together an ad hoc committee as needed and appropriate for the given situation. Suggested membership includes an appropriate appointee from the VP of Student Affairs, DEI, UPD, Registrar's office, the student's advisor/success coach, and if the student is an on campus resident, a member of Residential Life. The decision of the Associate Provost is final.

Academic Administrative Withdrawal Notice: The office initiating the administrative withdrawal must work with the appropriate Associate Provost and Registrar to activate the withdrawal. The Registrar's office will place a hold on the student's account. Upon the student being administratively withdrawn, the appropriate Associate Provost, or a designee, will inform the student. Additionally, the student will also receive written notice of the administrative withdrawal.

Readmission of Academically Administratively Withdrawn Students: Should the Administratively Withdrawn student choose to return to the university, the student must file a written request for readmission to the Provost at least 30 business days prior to the beginning of the term in which the student wishes to enroll. In order to be considered for readmission, the student must be able to demonstrate that they are prepared to return to classes and be successful in the University environment. Whether to grant readmission remains solely in the University's discretion.

Appeals Process for Academic Policies

All students will have the right to appeal in person regarding decisions rendered by either the Committee on Academic Petitions or the Curriculum and Degree Requirements Committee.

- The student must initiate the appeals process by preparing a petition in consultation with his or her academic advisor, or in the absence of the academic advisor, another faculty member, or the Student Success Center.
- Petition forms are available in the Office of the Registrar or online at www.nwmissouri.edu/registrar/petitions/htm.
- The student must submit the petition to the Registrar, who will then direct the petition to the chair of the Academic Appeals Committee.

Assessment Program Participation

Northwest must report the results of surveys and national tests to accrediting agencies (NCATE, North Central Association Team, and the Department of Elementary and Secondary Education) and to the Coordinating Board for Higher Education. In addition, the faculty must continue to evaluate the quality of its programs. Therefore, students may be required to take tests designed to measure general education achievement in selected areas, for purposes of evaluation and for the improvement of the academic programs at Northwest. No minimum score or level of achievement is required for graduation, unless a degree or certificate program so requires. Participation in testing may also be required of students in certain programs and of students selected on a sample basis.

Students who do not participate in scheduled and approved assessment projects may not be able to preregister or register for classes or receive a final transcript until the obligation is completed.

Attendance

Students are expected to attend all classes as specified in the course syllabi for each course. However, specific attendance policies may vary from instructor to instructor. Each instructor will clarify the attendance policy at the beginning of each course. It is the responsibility of the student to promptly notify his or her instructor when unable to attend class. Students receiving veterans' benefits should consult with the coordinator of Veterans' Affairs for the additional attendance requirements.

A student may make up class work without penalty if engaged in University activities endorsed by the Provost or prevented from attending by circumstances considered adequately extenuating by the course instructor.

After the add period until the end of the drop period, an instructor may request the Office of the Registrar to delete a student from the class roster due to non-attendance.

Audit

The University will admit a limited number of auditors to classes; the following policies apply:

- Students who initially enroll in a course for credit may be permitted to change their enrollment—to audit or remove from audit—any time within the first three weeks of a semester, eight days of a six- or eight-week course, five days of a four-week course and two days of any shorter length course.
 - Auditors will enroll for the course, pay the same fees as other students and enjoy all the privileges of the University.
- The instructor will decide the number permitted to audit.
 - The auditing student is expected to attend regularly and is to determine from the instructor the amount of work expected.
 - If an auditing student does not meet the criteria for the course, the instructor may drop the student from the class roll during the semester and the audit will not appear on the student's record.

- A course may be audited before it is taken for academic credit or before a student attempts a departmental test-out. A course may also be audited after it is taken for credit.

Audit forms are available in the Office of the Registrar and on the Northwest website: <https://www.nwmissouri.edu/registrar/PDF/Course-Audit-Request.pdf>.

Students must petition the Committee on Academic Petitions for exceptions to the above policies. Petition forms are available in the Office of the Registrar and on the Northwest website: <https://www.nwmissouri.edu/registrar/petitions.htm>.

Calculator Use

Calculators may be permitted in some courses. If a calculator or programmable calculator is not to be used in a course, the faculty member is to include a clear statement on the course syllabus such as, “Calculators are not to be used during tests for this class” or “All memories in programmable calculators must be empty during tests for this class.” It will be considered cheating in all classes when students violate the above statements.

Change in Course Delivery Method

Students requesting a change in course delivery method must initiate such a change request with an academic advisor in conjunction with the Registrar's Office. All change in delivery method requests will go into effect on the first day of the next semester. Changing delivery methods during the semester is not allowed. The change form can be found online at www.nwmissouri.edu/registrar/forms.htm.

Correspondence and Extension Courses

Northwest does not offer courses by correspondence or extension; however, it does maintain the following policies in regard to credit earned in this manner.

No student will be permitted to be enrolled in correspondence or extension courses while being regularly enrolled at Northwest without prior approval of the major department. A course completed or attempted in residence may not be repeated by correspondence or extension for the purpose of raising a grade or removing a failure.

No student will be permitted to apply coursework in correspondence or extension toward their degree after a total of 30 hours has been completed in correspondence or extension courses.

Classification of Students

Students are classified at the opening of the regular school year in the fall and thereafter at the opening of the spring and summer semesters as follows:

Freshman: less than 30 semester hours of academic credit.

Sophomore: less than 60 semester hours but more than 29 hours of academic credit.

Junior: less than 90 semester hours but more than 59 hours of academic credit

Senior: 90 or more semester hours of academic credit but has not earned a bachelor's degree.

Postbaccalaureate: a student who holds a bachelor's degree and is enrolled for undergraduate courses; a student pursuing another bachelor's degree.

Graduate Student: a student who holds a bachelor's degree and has been accepted for a course of study leading to a master's degree or graduate-level study.

Concurrent Enrollment

An undergraduate student enrolled at Northwest shall not receive credit toward graduation from Northwest for courses taken concurrently at another institution without permission of his or her major department.

Course Numbering

Courses are numbered according to the following plan:

| | |
|-------------|--|
| 001 to 099: | Non-College Parallel: will not satisfy graduation requirements |
| 100 to 299: | Lower Division |
| 300 to 499: | Upper Division |
| 500 to 599: | Upper Division/Graduate |
| 600 to 699: | Graduate Only |
| 700 to 799: | Education Specialist |
| 800 to 899: | Cooperative Ed.D. Program |

Credit Unit

Northwest uses the student credit hour, as defined by the US Department of Education, as the measure for earning credit. At a minimum, one student credit hour equates to the amount of work, completed at a satisfactory level, equivalent to three clock hours per week for approximately 15 weeks for every semester hour of credit, or the equivalent amount of work over a different period of time.

These three hours may be comprised of one hour spent engaged in direct faculty instruction (face-to-face, online, or ITV) and at least two hours working outside of class, two or more hours per week in a laboratory setting with a minimum of one hour of work outside of class, or similar minimum expectations in other academic activities such as internships, practica, studio work, and other academic work leading to the award of credit hours.

The number of credit hours for each course is indicated in the departmental statements, in this catalog, and on the Northwest website by accessing the CatPAWS "Class Schedule" links.

Degree Audit

The Office of the Registrar provides a degree audit to help students track their academic progress toward completing a degree program. Degree audits show students and advisors in a report format what requirements have been completed and those which still need to be fulfilled for graduation.

Degree Audits should be reviewed at a minimum the following 5 times during the semester:

- prior to meeting with an academic advisor,
- after registration,
- after grades are posted,
- anytime a schedule change is made.
- prior to application for graduation

The student is responsible for knowing and meeting the requirements for a degree. Efforts are made to ensure the accuracy of the degree audit; however, final certification that an undergraduate student has completed all graduation requirements is the responsibility of the Registrar. Questions regarding how coursework is applying to requirements should be addressed to the Registrar (registrar@nwmissouri.edu).

Degree audits for all currently-enrolled and transfer students accepted to the University are available online.

External Examinations

Students may establish advanced standing credit by examination through the College Level Examination Program (CLEP), the Advanced Placement program (AP), and the International Baccalaureate (IB). See “Admissions (p. 15)” section.

Final Examinations

The University publishes an official final examination schedule for fall and spring terms. Summer examinations are scheduled by each instructor on the last day of the course. All examinations must be given on the day and time for which they are scheduled.

Students who wish to change their final examination schedule must obtain the approval of the instructor and file the change with the department chair/school director. Students may petition for a change in their final examination schedule only in cases of major medical situations, personal or family crisis, or University-prescribed activities. Students faced with an emergency and unable to contact the instructor should contact an appropriate University office or person as soon as possible.

A student who has three examinations scheduled on the same day may petition for a schedule change by initiating a petition with any one of the instructors giving an examination on the day three are scheduled. The petition must be signed by the instructor granting the change. The student will file the change with the department chair/school director. Petitions may be obtained at the academic department.

Grade Appeal Procedure

Faculty members have a professional obligation to evaluate the progress and/or performance in each course. Student progress and/or performance should be evaluated solely on the academic objectives of the course.

Students are responsible for maintaining standards of academic performance established for each course in which they are enrolled. Lack of success in meeting the academic grading standards established by the instructor shall not constitute a case for appeal.

- A student who feels that the instructor has graded on the basis of personal opinions or other matters unrelated to the established academic standards is encouraged to consult with the instructor in the hope that a satisfactory solution can be achieved.
- If the student still feels the instructor is biased or capricious in his/her academic evaluation, the student shall have the right to make written appeal of the grade within one calendar year from the last day of finals in the semester during which the grade in question was assigned.
- The written appeal shall be submitted to the departmental/school-level Student Relations Committee through the department chairperson, school director, or coordinator. Such a committee shall consist of at least one faculty member and one student who are not directly involved in the case. Northwest Missouri State University faculty maintain records of students' academic performance until such time as the aforementioned window for submitting an appeal has expired.
 - A departmental/school-level Student Relations Committee shall convene within a reasonable time following the student's request for a formal hearing.
 - If the committee feels there is reasonable justification for the student's appeal, then it shall schedule a formal hearing in which testimony from both the student making the appeal and from the instructor concerned will be considered, along with any supporting evidence.
 - At the conclusion of the hearing, the committee will make its recommendation for the resolution of the difference, and shall notify in writing the student, the instructor, and the department chair, school director, or coordinator. The written

decision and the signatures of the committee members shall be filed in the department/school.

- If the departmental/school-level Student Relations Committee supports the student but the instructor refuses to accept the decision of the committee, the student may notify the department chairperson, school director, or coordinator of the instructor's refusal. Should the allegation concern the department chairperson, school director, or coordinator the notification shall be made to the Associate Provost or as otherwise designated by the chief academic officer.
- If the appeal fails, or is not supported by the department chair or school director, the student may then petition the Academic Appeals Committee. The student must make the appeal in writing to the Academic Appeals Committee, through the Office of the University Registrar, within 10 academic days of receiving formal notification from the departmental/school committee.

Grade Changes

Once a grade is posted, the grade cannot be reduced to a lesser grade.

Grade Point Average Requirements

Students with transfer credit will have three grade point averages:

- Northwest GPA: computed on work at Northwest only;
- Transfer GPA: computed on work transferred in from other institutions;
- Cumulative GPA: computed on both Northwest work and that transferred in from other institutions.

The following are based on both the Northwest GPA and the cumulative GPA:

1. Academic status (good standing, probation, suspension or dismissal),
2. Financial assistance, except internal scholarships,
3. Graduation honors (summa cum laude, magna cum laude, or cum laude).

The Northwest GPA alone is used as the grade point average in determining eligibility for internal scholarships.

The cumulative GPA alone is used for the teacher certification grade point average, class rank and GPA at graduation.

Grade Point Calculation

Grade points are calculated on the following basis:

- One hour of "A" = four points;
- One hour of "B" = three points;
- One hour of "C" = two points;
- One hour of "D" = one point;
- One hour of "F" = zero points.

A grade point average is computed by dividing the grade points by the number of semester hours of academic work attempted. Grades assigned as NR, NC, W, I, IP, or P are not computed in the grade point average.

Grades: Five and Eleven Week Advisory

In order to inform students of their academic progress at five and eleven weeks, instructors are asked to report grades.

- Students notified of unsatisfactory coursework at five weeks are expected to follow up with the instructor in a conference, to address the areas of concern personally and systematically, and/or to seek academic support through available campus resources.
- Students notified of unsatisfactory coursework at eleven weeks are encouraged to consult the instructor and/or academic advisor to discuss options prior to the last date to drop a course.
- These advisory grades are not permanently recorded.

Grades: Midterm Advisory

In order to inform students of their academic progress at midterm, instructors are asked to report grades. Students notified of unsatisfactory coursework at midterm are expected to follow up with the instructor in a conference, to address the areas of concern personally and systematically and/or to seek academic support from campus resources. These advisory grades are not permanently recorded.

Grading System

The following marks are used in evaluating the work of students:

| | | | |
|----|-------------------------------------|-----|------------------------------------|
| A: | superior | P: | pass on pass/fail system |
| B: | above average | AT: | audit |
| C: | average | DL: | delayed grade (prior to Fall 2004) |
| D: | below average | I: | incomplete |
| F: | failure | IP: | in progress |
| W: | official withdrawal from University | NC: | no credit |
| | | NR: | grade not yet reported |

Holds: Diploma/Enrollment/Transcript

Failure to meet obligations to Northwest, financial (i.e.: tuition, room, board, telephone, parking, library fines, class materials) or otherwise (i.e.: incomplete admissions file), will be cause for refusal to allow an individual to enroll, receive a diploma, or receive an academic transcript.

Guidelines

- Financial situations: cases of exceptional circumstances will be considered, and an exception to a hold on a transcript will be made under the following conditions:
- A transcript is required by a funding agency in order for funds due the University to be released.
- Financial assistance personnel have verified that all necessary paperwork has been completed by the student and that a sufficient amount of assistance to cover the student's obligation will be forthcoming.
- Enrollment may be allowed at the discretion of the Bursar when there is reasonable assurance that funding will be forthcoming.
- No exceptions are made to a hold on a diploma.
- Admissions: an exception may be made under the following condition:

- If an individual has not submitted all the required transcripts and/or ACT results, the associate director of admissions may release a hold when there is reasonable assurance that the required materials are forthcoming.
 - A hold may be placed on preregistration as well as general registration and verification of preregistration.
- Other situations (i.e., disciplinary, etc.): the “holding” department will consider exceptional circumstances.

Appeals rest with the appropriate Associate Provost or the Provost.

Honor Roll and Graduation Honors

The honor roll is compiled at each official grading period and includes all full-time undergraduate students earning a grade point average of 3.50 or above in academic courses.

- Students who take an incomplete grade will not be considered for the honor roll for that term.
- Students who earn a 3.50-3.99 GPA will be named to the Academic Honor Roll.
- Students who earn a 4.00 GPA will be named to the President’s Honor Roll.

Graduation honors are determined by a student’s Northwest GPA, and if there are transfer credits, the cumulative GPA (all college work attempted) must also meet the GPA requirements. Only first degrees are eligible for honors and class rank.

- Graduating seniors who have grade point averages (Northwest and cumulative) between 3.50 and 3.74 inclusive for their work in their first academic degree will be graduated “Cum Laude.”
- Graduating seniors who have grade point averages (Northwest and cumulative) between 3.75 and 3.94 inclusive will be graduated “Magna Cum Laude.”
- Graduating seniors who have grade point averages (Northwest and cumulative) between 3.95 and 4.00 inclusive will be graduated “Summa Cum Laude.”

Honors designation for the commencement program will be determined on the grade point averages based on grades recorded on the academic transcript by the Registrar four weeks prior to the spring and fall commencement exercises.

Incomplete Grade

- An incomplete grade is initiated with the course instructor.
- The incomplete grade indicates that due to unusual circumstances a small portion of a course has not been completed.
- In each instance when an incomplete grade is assigned, the instructor of the course is required to provide a statement as to the work remaining to complete the course.
 - The incomplete grade and statement of the work left to complete the course are submitted by the instructor electronically through CatPAWS at the final grading period for the course.
- The student must then complete the requirements for the course by the end of his or her next fall or spring term of enrollment, or the grade becomes an “F” on the student’s permanent grade record.
- A student wishing to submit makeup work to remove an incomplete grade must make arrangements with the instructor two weeks prior to the final grade due date.

- Faculty members are not obligated to accept and evaluate make-up work in order to submit a grade after the above time periods.
- A baccalaureate degree will not be awarded with an incomplete grade remaining on the student record by the end of the term of graduation. Upon removal of the incomplete grade, the student will then be eligible to apply for graduation at the next graduation period.

Requests for extension of time must be petitioned to the Committee on Academic Petitions. Petition forms are available in the Office of the Registrar and on the Northwest website at www.nwmissouri.edu/registrar/petitions.htm.

In-Progress Grade

The in-progress (IP) grade is used only for outreach courses, collaborative courses, and study abroad courses which span more than one semester. The IP designation is determined by the course, not the individual student. The IP grade is assigned at the end of the first semester of the course and is replaced by the earned grade at the end of the course. If the student does not complete the course by the end of the established grading period, the appropriate grade will be assigned by the instructor. If the grade is incomplete, the existing incomplete grade policies would then apply.

A baccalaureate degree will not be awarded with an in-progress grade remaining on the student record at the end of the term of graduation. The IP grades become failing grades on the permanent record.

Military Service

Students who have completed a minimum of one year of active military service may be granted credit as determined by the Northwest Office of Admissions. Credit may also be granted for specific military training and MOS designations as recommended by the American Council on Education.

No Credit

The University makes available a procedure whereby persons may enroll in undergraduate courses for no credit on a space-available basis. Individuals admitted under this procedure must declare, at the time of enrollment, that they do not wish credit for the course. A course taken for no credit cannot be converted to credit except by repeating the course for credit. Students may not change status from credit to no credit.

Individuals enrolling for no credit are not required to go through the formal admissions process and are not required to submit transcripts of past academic work. Students presently under suspension from Northwest or any other institution of higher education are not eligible for enrollment for no credit. Fees for no credit courses are at the same rate as credit or audit courses. 600-level courses and above are not available on a no-credit basis.

Pass/Fail Option

The primary purpose of the pass/fail option is to encourage students to attempt courses in areas outside their major or minor area which would not ordinarily be attempted because of lack of background. This option is made available so that students will feel free to broaden their educational experience somewhat without fear of a poor grade affecting their grade point averages.

Eligibility:

To be eligible to use the pass/fail privilege the student must:

1. Complete one term as a full-time student at Northwest.

2. Have a Northwest cumulative grade point average of at least 2.00 at the time of registration.

Procedure for Enrollment, Recording and Evaluation:

1. Courses to be taken on pass/fail must be so designated within the first 30 days of instruction of a semester, the first eight days of a six-week or eight-week course, five days of any four-week course and two days of any two-week course. The student is to file a request for pass/fail grading in the Office of the Registrar.
2. Lecture/lab courses are considered as one unit.
3. Grades of “F” shall receive the same negative honor points as a regular “F.”
4. Grades of “P” are not computed in the grade point average.

Limitations of Use of Pass/Fail:

1. Pass/fail may be used for a maximum of nine hours. Students transferring pass/fail hours to Northwest shall have those pass/fail hours counted toward their total pass/fail hours.
2. Pass/fail may not be used for any course:
 - a. In the student’s major or minor requirements.
 - b. To meet a Northwest Core or Institutional requirement.
 - c. Required for language requirement on a B.A. degree.
 - d. Required for teacher certification or any pre-professional requirement.
3. Pass/fail cannot be used for graduate-level courses.
4. Pass/fail cannot be used to supersede.
5. The University, its faculty and administrators, will be under no obligation other than those regulated by law to release information regarding the grade originally earned by the student.
6. All courses that are used to meet a free elective, or any hours taken above the minimum required for graduation and not prohibited by No. 2 above, can be placed on pass/fail.

Students must petition the Committee on Academic Petitions for exceptions to the above policies. Petition forms are available in the Office of the Registrar and on the Northwest website at www.nwmissouri.edu/registrar/petitions.htm.

Preferred Name

Northwest Missouri State University recognizes the need of campus community members to identify themselves by a name different than their legal name. Therefore, it is the policy of Northwest Missouri State University that any student, staff or faculty member may choose to identify, within the university community, with a preferred first name that differs from their legal name.

As long as the use of the preferred first name is for an appropriate purpose and aligned with the intended use of preferred name, the University will acknowledge the use of the preferred name in university-related systems and documents except where the use of the legal name is required. The University will change an individual’s preferred first name one time at no charge. However, the University will charge a name change fee for each subsequent request for a preferred first name change.

An individual student's preferred first name will be used in lieu of that individual's legal name in all instances where use of a legal name is not required and will be used across University systems where available and technically feasible. Students, faculty, and staff are expected to facilitate the use of preferred name by using CatPAWS to add or update the student information system.

An individual should only have to make a single request to update their preferred name across all University systems. However, all campus community members should be aware that some systems do not receive regular updating from the main information system and therefore may not be updated. Individuals who encounter such systems should bring this to the attention of the University Registrar or Human Resources who will work with the appropriate entities to bring the system into compliance with the policy.

Northwest Missouri State University reserves the right to deny or remove any preferred name, with or without notice for misuse, including but not limited to misrepresentation, attempting to avoid legal obligation, use of derogatory names, and violation of the University's policy as it relates to the appropriate purpose and intended use.

Instances in which preferred name will be used include, but are not limited to:

Students:

- Class rosters
- Residence hall rosters
- University identification cards
- Degree Audit
- Grade Sheets
- University systems (Canvas, Northwest Success 360, myNorthwest, Student Directory and email)
- Wherever it is not necessary for the legal name to be used

Legal Name:

A change in legal name requires an official document or court order verifying the correct information at the time the request is made. Information about changing a legal name in Missouri may be found at <http://mmls.org/forms-info/172-2/>. Other states may have different legal name change procedures.

Students are required to verify their legal names prior to the point of admissions. After enrollment, students may process official legal name changes or corrections.

Instances in which legal name must be used include, but are not limited to:

- Reporting to state or federal agencies
- Transcripts
- Diplomas
- Payroll documents
- Financial aid documents and processes
- Billing and processes
- Enrollment and degree verification processes
- Official lists of students made available to the public

- Communication with the "Family of ____"
- Other records where the student's legal name is required by law or University policy

FERPA:

Under the Family Educational Rights and Privacy Act (FERPA), a student's name, including preferred name, may be disclosed to the public as "directory information" unless the student opts not to permit such disclosure. To revoke the disclosure of directory information, a student has the option of requesting privacy through the student information system CatPAWS. To view the full FERPA policy, go to: <https://www.nwmissouri.edu/policies/academics/index.htm>. The full preferred name policy can be found in the University Policy Library located at <https://www.nwmissouri.edu/policies/academics/index.htm>.

Superseding Grades/ Repeating Courses

A student who has received a grade of "C", "D" or "F" in a course may repeat a course in an effort to raise the grade. A student may supersede a given class at most two times, providing up to three opportunities to complete the given class. When a course is repeated, all of the grades will appear on the student's record, but only the highest grade earned will be used in determining the cumulative grade point average. A petition for superseding, available online through CatPAWS, must be completed online prior to registration for the course. Students will register for superseding courses during the normal registration period.

A five-hour course may be superseded by a four-hour course if the five-hour course is no longer taught and the four-hour course is essentially the same in content as defined by the department which originated the five-hour course. Similar procedures apply to a four-hour course which has been changed to three hours.

A student will not be allowed to supersede a grade earned at Northwest by completing an equivalent course at another institution.

Students must petition the Committee on Academic Petitions for exceptions to the above policies. Petition forms are available in the Office of the Registrar, and online at www.nwmissouri.edu/registrar.

A student with veterans' benefits must advise the coordinator of Veterans' Affairs when he or she plans to supersede a grade.

Test-Out: Departmental/School

Departmental/School test-out differs from advanced placement in that the examinations are administered and credit awarded solely by the department/school, and not through national institutions such as CLEP, ACT, etc. Therefore, the student should contact the department/school for information on which courses are available for test-out and examination dates.

Policies: Students expecting to test out of a course should not enroll in the course. The student must be enrolled at Northwest, however, for the period during which the test-out is administered and credit is awarded.

The student must apply for test-out with the appropriate department chairperson/school director. The chairperson or director determines what courses are available for test-out and will arrange for the test-out process in accordance with department/school policy. Where a test-out will result in schedule changes, the entire test-out process should be completed before the end of the 100% refund period.

Test-out may not be taken to supersede a "C," "D" or "F" grade. Test-out may be repeated twice in eligible classes, subject to department/school approval, but a period of six months must elapse between testings. A letter grade of "A," "B," "C," or "D" will be assigned.

Procedure: Each time a test is taken, the student must purchase a test-out form from the Student Account Services. (See “Fees and Costs (p. 31)” section.) A separate form must be purchased for each course, except for unit courses with labs. The student is to submit the form to the department/school prior to testing. The department chairperson, director, or coordinator will complete the form and return it to the Office of the Registrar for processing immediately after the testing period.

Transcript of Grades

Student requests for copies of their permanent grade record may be made in writing, through CatPAWS, on the online request form, or through the National Student Clearinghouse. Normally, a transcript can be issued upon 24 hours' notice; however, at the end of a term, at least two weeks' notice should be allowed for grade recording and processing.

The student must send the transcript fee along with the written request or provide credit card information with the online request. Forms may be found at www.nwmissouri.edu/registrar/transcript.htm.

University Seminar

University Seminar is an academic course designed to introduce students to the Northwest community and collegiate environment. Each student develops a personal plan to understand and assume responsibility for their own university experience. Course content includes adjustment to University life, skills necessary to make the most of the university experience, Northwest Core Requirements, academic programs and advisement, career exploration, campus and community resources, and taking advantage of cultural and extracurricular events.

Requirements:

1. University Seminar is an entry-level course requirement, as well as a Northwest Core Requirement for all two- and four-year programs.
2. All first-time, full-time (12 semester hours) freshmen entering the University are required to enroll in University Seminar in their first semester of enrollment. If the student does not pass the course, it must be retaken in successive terms until passed.
3. Students transferring or returning to Northwest with less than 15 semester hours are required to take University Seminar.
4. Non-traditional (those out of high school more than five years) degree-seeking students are not exempted from University Seminar. These students may attend special sections designed for non-traditional students or they may discuss alternatives with their University Seminar instructor regarding the parts of the course which are deemed inappropriate because of their personal status.
5. A student who is dually-enrolled in high school prior to entering Northwest is not exempt. The student is still required to take University Seminar.

Petitions for exceptions to the above requirements are considered by the Curriculum and Degree Requirements Committee of the Faculty Senate. Petition forms are available in the Office of the Registrar and on the Northwest website at www.nwmissouri.edu/registrar/petitions.htm.

Graduation Policies and Requirements

Academic Residence

1. At least 30 credit hours of academic work must be done in residence.
2. The last 10 credit hours of academic work must be done in residence.

3. Not more than one-fourth of the work on any curriculum may be taken by correspondence and/or extension.
4. Credit by examination is not considered to be residence credit.

Students must petition the Committee on Academic Petitions for exceptions to the above policies. Petition forms are available in the Office of the Registrar or on the Northwest web page, www.nwmissouri.edu/registrar/.

Advanced Standing Requirement

Each department, college, or school may have an advanced standing requirement. Under this policy a department, college, or school may require a student wishing to pursue a major in that department, college, or school to complete certain courses, pass interviews, achieve grade point averages, or succeed in examinations prior to being formally admitted to a major. However, any student under this process and majoring in one discipline or department will be considered eligible to take courses in another department, college, or school without further requirement. Refer to appropriate departmental/college/school advanced standing statements.

Negative decisions regarding a student's advanced standing may be appealed to the Associate Provost of the department or school.

Advisor Graduation Check

- Students are required to have an Advisor Graduation Check on file at least two semesters prior to graduation in order to plan final enrollments.
- Primary, secondary, and minor advisors are notified through NW 360 to complete the check when a student reaches 90 earned hours, and add a note in NW 360 when it has been completed.
- Any deviation from the approved degree audit must have approval from the department/school where the major or minor is located, or from the Curriculum and Degree Requirements Committee when Northwest Core or Institutional Requirements are affected.

Application for Degree

Every student is required to submit an application for graduation at least one semester preceding the semester in which graduation is planned. Applications are submitted online via CatPAWS. Students completing degree requirements in a summer semester should apply for summer graduation. As there is no summer commencement ceremony, summer degree completers have the option to participate in either a spring or fall commencement ceremony, and will indicate a preference as part of the cap and gown order process.

Catalog Requirement

Students are permitted to be graduated by completing the curricular requirements in effect in the catalog in force at the time of their initial enrollment. Students may elect to follow new curricular requirements of subsequent catalogs but must follow one catalog or the other in its entirety. After 18 months of nonattendance, however, all current catalog requirements will be imposed.

The effective date of non-curricular policy and regulation changes is established by the president of the University who will disseminate this information to the students and faculty before implementation.

Commencement

Degrees are conferred at the end of each term, and commencement exercises are held at the end of spring and fall terms. A Degree Completion processing fee is assessed whether or not the student plans to participate in commencement exercises.

- Students completing degree requirements in summer have the option to participate in the preceding spring or following fall commencement ceremony.
 - Those who wish to walk early in the preceding spring must apply by March 1.
 - Those who wish to walk in the following fall must apply by October 15.
 - Participation in the commencement ceremony does not constitute conferral of degree.

Graduation honors for the commencement program will be determined prior to final term grades. (See “Honor Roll and Graduation Honors (p. 57)” section.)

Courses Counting Toward Multiple Requirements

- Students may use Northwest or transferred coursework to fulfill requirements for two (or more) comprehensive majors, regular majors, and minors, unless specifically prohibited in this catalog.
- Each comprehensive major, regular major, and minor shall consist of at least 12 hours of unique coursework not applied to any other comprehensive majors, regular majors, or minors.
- Any application of courses counting toward multiple requirements shall not affect the total hours needed for graduation and/or the programs to which the course is applied. See requirements for Undergraduate Degrees (p. 87).

Grade Point Requirement

1. Each applicant for a certificate, diploma, or degree must achieve a grade point average of not less than 2.00 in all academic subjects at Northwest.
2. A grade point average of 2.00 must be maintained in the coursework applied to completion of both the major and minor requirements in the degree program. Courses in the major and minor fields of study not applied to completion of the program may, subject to degree verification by the Registrar, be utilized to meet the 2.0 minimum in the major or minor field.
3. A cumulative grade point average minimum is required for all certificates, diplomas, or degree programs for the Bachelor of Science in Education degree. All other degrees, certificates, or diplomas require a minimum cumulative grade point average. Please refer to the Professional Education Handbook.

Majors and Minors

For the Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Music Education, and Bachelor of Science in Education degrees, the student must choose a major and minor, or a comprehensive major, selected from the departments/schools. The following factors should be considered:

1. That all minors can be joined with all majors in all degree programs.
2. Majors may not take a minor in the subject of the major unless the minor is an interdisciplinary minor.
3. Students in professional education programs with majors which require a minor must select minors with the assistance of their academic advisor. The department chairpersons, school directors, program coordinators, advisors, Student Success Center, and the Office of Career Services are available to counsel students on this matter.
4. No change in program should be made without prior approval of the student’s advisor.

Physical Activity/Varsity Athletics Limitations

1. Only four physical activity credits may be counted toward the minimum number of hours required for graduation. Varsity athletics are not included in the physical activity credits.
2. Enrollment in varsity athletics is limited to four credits per sport.

State Law Requirements for Degrees or Certificates

Candidates for degrees or teaching certificates must meet state law requirements, Section 170.011 (Rev 2014), of a completed course of instruction in and satisfactory passing of “an examination on the provisions and principles of the constitution of the United States and of the State of Missouri, and in American history and American institutions.” To comply with the law, students may: (1) complete POLS 34102 (p. 452), or (2) complete the requirement at another collegiate institution with substitution determined by the Office of Admissions - Operations.

Pursuant to state law section 170.013 (2018), students must also complete the Missouri Higher Education Civics Achievement Exam with a score of seventy percent or better to earn a degree. To comply with the law, students may complete the Missouri Higher Education Civics Achievement Exam module as a part of POLS 34102. Transfer students who (1) do not have an Associate of Arts degree from a Missouri institution or (2) have not taken and passed the Exam must complete the module online through the Office of Assessment. This requirement applies to any student entering a Missouri public institution of higher education for the first time after July 2019.

Second Degree

For each baccalaureate degree beyond the first awarded to a student there is a requirement of 15 semester hours of work in courses numbered above 300. All specific and general requirements for the additional degree must be met but may be included within these 15 hours.

Teacher Certification

The University is accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary teachers. Programs carry state approval by authority of the Missouri State Board of Education.

Information in regard to obtaining teaching certificates in other states is available in the School of Education.

Upper Division College Credit

1. Candidates for the Bachelor of Science, Bachelor of Science in Education, Bachelor of Fine Arts, Bachelor of Music Education, and Bachelor of Science in Nursing degrees must earn at least 40 semester hours of credit in courses numbered 300 or above.
2. Candidates for the Bachelor of Arts degree must earn at least 32 semester hours of credit in courses numbered 300 or above.
3. 12 hours of the major and at least five of the minor must be in courses numbered 300 or above.

Writing Competency

All students will demonstrate writing competence by successful performance on a writing assessment. Those who take the core writing courses at Northwest (ENGL 10111 and ENGL 10112 (p. 402), or ENGL 10115) will take the assessment near the end of the sequence. Transfer students who have not completed the core writing courses at Northwest and have not passed an approved assessment at another school will complete the writing assessment at the same time as students taking core courses ENGL 10112 (p. 402) or ENGL 10115. Information about assessment procedures and retake options may be obtained from the Department of Language, Literature, and Writing office.

Student Life Policies and Regulations

Campus Conduct Program

Coordinated by the Student Conduct and Development Coordinator, the Campus Conduct Program is a multi-leveled system of discipline committees designed to hear student grievances and violations of the Student Code of Conduct. For more information, refer to the online *Student Handbook* or contact the Student Conduct and Development Coordinator, (660) 562-1554.

Motor Vehicle Registration

Students are responsible for knowing and observing the parking and traffic policies. All vehicles must be registered with the University Police Department in order to use University parking facilities. Parking areas are designated for use by permit type.

Maps of the campus and copies of the Parking and Traffic Policy are available at the University Police Department, and are also available online at www.nwmissouri.edu/police/index.htm. Appeals of parking and traffic fines are heard by the Student-Faculty Traffic Committee and may be filed at the University Police Department.

Student Records: FERPA

Please visit the following link for more information regarding Student Records:

<http://www.nwmissouri.edu/policies/academics/Family-Educational-Rights-and-Privacy-Act.pdf>

Student Records: General Data Protection Regulation (GDPR)

Northwest Missouri State University complies with the guidelines and laws of GDPR in how personal information is collected and used. This applies to each unit at all levels and includes databases, websites, and any other logged information of EU citizens.

The full GDPR policy can be found in the University Policy Library at the following link: <https://www.nwmissouri.edu/policies/academics/General-Data-Protection-Regulation.pdf>.

Student Identification Card (Bearcat Card)

Every student enrolled at Northwest is required to have an identification card (Bearcat Card), to carry it at all times, and to present it when requested by University personnel. The Bearcat Card serves as a meal card for students. In addition the card is used in the library, at sporting events, and in the copy machines and vending machines. The card can also be used as an ATM and debit card worldwide if the user has a US Bank account. All graduate and undergraduate students should report to the ID Office, in the J.W. Jones Union, as soon as they enroll, present their enrollment forms, and receive an ID card. The card is valid as long as the student is enrolled at Northwest. There is a replacement fee if the card is lost or stolen.

University Housing Policy

Research has proven that freshmen experience an advantage, both in grades and in adjustment to college life, by living on campus within the University environment. To capitalize on this advantage, the University requires all first-time freshmen to live in the residence halls, unless they commute from their parents' or legal guardians' home, are married, or are 21 years of age or older. Students may petition the requirement to live on campus by completing the Commuting Form in the acceptance packet. Students whose form is approved will be exempted from this policy.

University Policy Library

Please visit the following link for more information regarding University Policies:

<https://www.nwmissouri.edu/policies/>

Resources and Services

Academic Success and Retention

The Academic Success and Retention Unit, housed in the Student Success Center on the second floor of the B.D. Owens Library, offers a variety of services and resources to the University community from orientation to graduation. These include but are not limited to:

- Onboarding students through orientation
- Supporting students in their first year through the University Seminar program and first-year academic advising
- Advising deciding students, transfer students, and handling general student inquiries
- Offering academic support (tutoring, Supplemental Instruction, and Student-Athlete Success Program) for many classes across disciplines on campus
- Teaching academic success courses (INCO 77150 and INCO 77151) for at-risk freshmen and transfer students transitioning to Northwest, students in academic recovery, or students who feel they need extra accountability and support

Academic Advisement

Academic Advisement, located in the Student Success Center (SSC), provides assistance in academic advisement for incoming students, students who have not declared a major, first year and transfer students, and students on probation or in academic recovery. Additionally, advisors at the Student Success Center provide supplemental advising support for any Northwest undergraduate student needing assistance.

All first-year students are assigned a first-year advisor based on their major/discipline. The first-year advisor is available to assist students with their academic planning and transition to university life. The first year advisors spend some time in academic buildings and work closely with faculty in the academic department/school to which they are assigned.

Academic Advisement also assists faculty in their roles as advisors by evaluating the advising system, strengthening the advising process, and by providing training on institutional policies and procedures. Any student seeking general advisement is welcome to visit the Student Success Center located on the second floor of B.D. Owens Library.

Orientation

Orientation programs are central to the onboarding, advisement, and registration process for new and returning students. Once admitted, orientation is the next step in a student's academic career at Northwest. Any undergraduate: freshman, transfer, returning, non-degree, or post-baccalaureate student, beginning at or returning to Northwest, registers for an orientation program, available online or in-person, and completes an advising intake survey in CatPAWS. Northwest's orientation program acclimates students to Northwest and provides them with important information for navigating the institution successfully. In addition, completing the advisement intake survey initiates the advisement and registration process coordinated by Student Success Center staff in conjunction with academic departments. Welcome programs are provided at the beginning of the fall and spring semesters for new students.

Orientation programs include:

SOAR is a robust in-person experience for traditional freshman starting in the fall, and their parents. This includes combined programming and programming that is unique to each

population. This day includes an opportunity for students and families to meet with an advisor in the afternoon to discuss their student's personal academic experience and fall schedule. Families can interact with people from across campus and take care of university-related items at their convenience.

New Student Orientation for Transfer and Returning Students is an in-person experience for students to attend orientation and meet with an advisor in their academic area. The day contains a lot of important information and is compact to allow students to take care of any items they need to while on campus and allow sufficient time for advisement meetings with academic departments.

Online orientation units are available for online students, as well as all other undergraduate populations. We know it's not always convenient to come to campus ahead of school starting, and our staff try to provide as much flexibility as possible to meet your needs as you prepare for your academic career at Northwest.

Advantage and Winter Welcome are in-person welcome programs that kick off the start of the fall and spring semesters. They include important information to help get students acclimated but also activities to kick off the semester.

Academic Success Coaching

Northwest's Academic Success Coaching Program provides support for the following populations:

- At-risk freshmen and transfer students transitioning to the University
- Students in academic recovery
- Students who feel they need extra accountability and support

The program helps students better understand and articulate their academic goals, assists students in creating and maintaining the life-long learning strategies and provides guidance and recommendations for using institutional resources and services.

Academic Support

Academic Support services, located in the Student Success Center on the second floor of the B.D. Owens Library, offers face-to-face and online tutoring sessions as well as group study sessions (Supplemental Instruction) in the most rigorous subject areas in the Northwest Core, as well as individualized assistance for some upper-level courses. All academic support services are offered at no cost to students.

Admissions: Mabel Cook Recruitment and Visitors Center

Located at the main entrance to campus, the primary purpose of the Mabel Cook Recruitment and Visitors Center is to provide campus tours and admissions information for prospective students and their families. For more information, please contact the office at (800) 633-1175 or (660) 562-1562.

Admissions - Operations Office

Other admissions functions are carried out by the Admissions - Operations division in the Administration Building. This office processes all freshman, transfer, returning, dual credit, joint admission and non-degree applications for admission. Questions concerning transfer of credits, transcript evaluations, residency determination, admission procedures and standards may be addressed to this office. Phone (660) 562-1148 or email apply@nwmissouri.edu with any questions or concerns.

B.D. Owens Library

B.D. Owens Library, which is named for the eighth president of the University, opened in 1983, replacing the original library in Wells Hall. With 116,000 square feet of space, B.D. Owens Library services and spaces are designed to meet the diverse needs of students, faculty, and staff. Library users can access over 100,000 print books, documents, and films; nearly 250,000 eBooks; and nearly 50,000 electronic format periodicals. Additional access to over 27 million items is provided through the statewide catalog maintained by the MOBIUS Consortium.

Course-focused guides and tutorials along with reference and citing assistance are also available. Reference service is provided via text, chat, video, walk-in, by appointment, e-mail, and phone. The library's very popular "Research Help" program provides learners with personalized research assistance.

B. D. Owens Library is home to several key services widely used by the University community that complement the library's structural support mission. The Learning and Teaching Center, which supports faculty professional development and the University's instructional technology needs, the Student Success Center, which offers free tutoring and academic support across the curriculum, and the Writing Center, which offers writing across the curriculum tutoring, are all located on the second floor. The International Involvement Center and the Study Abroad program are located on the first floor.

Throughout the library, areas for private study and reading are available along with spaces and resources that invite collaboration and facilitate team project development. Additionally, Novel Grounds, the library's full-service coffee house, provides a comfortable space for patrons seeking a more relaxed and social atmosphere to meet and study.

Bearcat Bookstore

The Bearcat Bookstore is located on the second floor of the J.W. Jones Student Union and is your on-campus source for Bearcat clothing and gifts, greeting cards, instructional materials and supplies, hardback and paperback books and many other items. Students have the option of charging items from the bookstore to their student accounts. Store hours during fall and spring semesters are Monday-Thursday, 8 a.m.-5 p.m.; Friday, 8 a.m.-4:30 p.m.; closed Saturdays and Sundays except for home football games or other campus-wide events. Summer semester hours are Monday-Thursday, 9 a.m.-4 p.m.

Career Services

Career Services offers career and internship counseling, assistance with resumes, cover letters, and graduate school materials, and sponsors events such as Mock Interview Day, Career Day, and Exploring Majors and Minors.

Visit the website at www.nwmissouri.edu/career for career related resources, examples, and event details, including links to current job postings on the Hire A Bearcat social media pages. University placement data is also gathered by Career Services and available online.

All services are free to current undergraduate and graduate students and alumni. Students may make appointments to visit with staff, or may walk-in from 9:00 am - 4:00 pm Monday-Friday, in Administration Building 130.

Diversity and Inclusion Office

The Office of Diversity and Inclusion fosters an educational environment in which students, faculty, and staff from diverse backgrounds and orientations can come together to share, learn, grow, and enjoy the rich experiences and contributions each has to offer. The office provides assistance to individuals, groups, departments, and other surrounding communities on issues of cultural and ethnic diversity specifically through educational programming, intercultural training, cultural enrichment activities, and counseling. The director of Diversity and Inclusion supports multicultural student organizations to link with all Northwest student organizations in order to enhance campus activities and to create an enriched college environment that is characteristic of our global community.

Financial Assistance and Scholarships Office

Located on the second floor of the Administration Building, the Office of Scholarships and Financial Assistance is responsible for the administration of all federally-funded student financial assistance programs, including the Federal Pell Grant, Federal Work Study Program, Federal Supplemental Educational Opportunity Grant Program and Federal Direct Loan Program. The office also provides services to students receiving vocational rehabilitation funds, veterans' benefits, private and institutional scholarships, state assistance programs and other types of financial assistance.

Students receiving vocational funding from the State Department of Rehabilitation or funding from the Veterans' Administration should contact this office for certification and counseling assistance. The Office of Veterans' Affairs, also located in this office, assists veterans and eligible persons in all phases of certification, retention of benefits, receiving payment for tutorial assistance, veterans' work-study, as well as financial and academic advice and counseling.

Students who need assistance in planning and budgeting their college expenses and resources are encouraged to contact this office for information about the various types of assistance available as well as the procedures for applying.

In order to be eligible for federal financial aid, a student must be enrolled in a regular degree program or an approved certificate program.

Students who are in default on previous federal student loans are not eligible for any type of federal aid until the default status is removed.

Students are responsible for meeting the requirements for academic progress as stipulated in the Satisfactory Academic Progress guidelines, which is shared with each student who receives financial assistance coordinated through this office.

Information Technology

Northwest provides computing services to students, faculty, and staff via the campus network of over 7,000 notebook and personal computers. Featuring notebook computers for every on-campus student, the network is supported by high speed gigabit connections between buildings and high speed switches. Interactive computing and computer-aided instruction is supported by a hybrid environment of on-premise and cloud servers. The campus network is linked to the Internet via a 5Gbps connection provided by MOREnet. These services are available to every student, staff member and faculty member. Wide-area computing services include electronic mail via cloud email servers, remote library searches, and remote login access to super computers across the nation, plus locally supported access to the World Wide Web.

Students are assigned a username and password which can access a variety of services free of charge. For example, web services provide general information on class offerings, student and faculty directories, calendars, scholarship offerings, job openings, and a self-enrollment system enabling students to select course sections they desire. Email, along with other productivity tools such as Microsoft Office, are available to assist the students in their academic work. Students may also print at several locations across campus, for which there is a small printing fee for the laser and color printers. The library online catalog and full-text article retrieval, are also available using your network username and password. Wireless access is available in all academic, student services and student housing buildings on campus.

Institutional Assessment

The Assessment Office is responsible for a variety of activities required by Northwest for strategic academic program improvement and to provide the citizens of Missouri with information about student learning. Projects include administering satisfaction and engagement surveys, scheduling and administering proficiency tests, and coordinating major field subject matter examinations selected by the academic departments. The office also functions as a local administration site for a number of state and national testing companies offering examinations, such as ACT, SAT, MoGEA, MoCA, and Praxis Series.

Institutional Research and Effectiveness

The Office of Institutional Research and Effectiveness assists academic departments and service units with identification and measurement of key performance metrics, designs and administers mission-related surveys, develops data collection and reporting processes, maintains a dashboard/information management system and provides data analysis to support the research and strategic decisions made at various levels of the institution. The office is also responsible for constructing and providing data collections requested by research organizations as well as those required by local, state and federal education bodies and accreditation entities.

International Involvement Center

The International Involvement Center (IIC), located in Owens Library 108, houses the Study Abroad and International Affairs offices. The IIC works collaboratively to serve all students at Northwest by advancing international knowledge and intercultural competency.

Study Abroad Office

The Study Abroad Office helps students identify the study abroad program best suited to meet their academic and cultural interests. Studying abroad is one of many academic options that Northwest students from all academic areas are invited to experience. Whether a faculty-led, summer, semester, or academic year-long program, students have the opportunity to earn Northwest credit abroad, while gaining exposure to a new educational system and culture. Students broaden their horizons by traveling to an international location to study with local citizens and/or international students to experience global living. Study Abroad advisors link students with academic advisors, financial aid counselors, and other student service providers to plan a rewarding interaction and educational experience. Most Study Abroad programs are taught in English, so knowing the local language is not a requirement for study.

International Affairs

International Affairs provides leadership for international recruitment, retention support and policy creation to ensure academic success through graduation for international students. International Affairs offers immigration advisement and counseling for international degree-seeking and exchange students. In conjunction with academic offices, International Affairs consults in areas such as curriculum development and international education. International Affairs collaborates with academic and service units to provide intercultural training and positive campus climate creation and support.

Learning and Teaching Center

The Learning and Teaching Center (LTC) provides support to faculty and staff in its mission to create a culture of learning. The Center plays an integral part in Northwest's effort to enhance student learning through professional development for faculty in the areas of teaching, learning, and technology. Included within the Center are the Center for Information Technology in Education (CITE), Video and Web Conferencing, Northwest Online, Textbook Services, and a Student Employment Team. Beyond the Center's primary focus of supporting the faculty in teaching, learning, and integration of technology into campus courses, it is also extensively involved in the creation and development of online and blended courses and programs. The goal is to enhance student opportunities for learning by providing high quality courses that can meet the time and space flexibility requirements many of them face in today's continuous learning environment.

Military Science (Army National Guard GOLD Program)

Northwest is proud to partner with the Missouri National Guard to offer the Guard Officer Leadership Development (GOLD) Program on the Maryville campus. The Show Me GOLD Program is an officer candidate school preparation program resulting in a commission as a second lieutenant in the Army National Guard. Students enlist in the Army National Guard and attend basic and advanced individual training. They are then attached to the Northwest GOLD Detachment where they take military science courses on the Maryville Campus from Army

National Guard instructors. Between their junior and senior year student Guardsmen/Guardswomen then attend the accelerated National Guard Officer Candidate School where upon completion they are commissioned as second lieutenants in the Army Guard. The students then return to Northwest to complete their degrees. The Missouri National Guard has substantial financial assistance for all Guardsmen/Guardswomen in the form of the GI Bill and tuition assistance programs. GOLD Program students may apply their military science coursework toward a minor in Military Science. Contact the on-campus Military Science recruiter for information on the Show Me GOLD Program and scholarships.

Missouri Small Business and Technology Development Center (SBTDC)

The Missouri Small Business and Technology Development Centers help businesses in every stage, from concept to startup and from existing to growth and invention. The Northwest Missouri State University SBTDC is a partnership program with the U.S. Small Business Administration (SBA). The SBTDC is one of over 30 centers in Missouri and one of over 1,000 SBTDCs in the United States. The Northwest SBTDC serves 9 counties in northwest Missouri with the main office located in St. Joseph.

The SBTDC provides confidential one-on-one counseling for small business owners, managers and prospective owners. Counseling services are provided on an individual basis to meet the needs of the specific company or business owner. Typical areas covered are startup processes, business planning and feasibility, financing/funding, marketing, and human resources to mention a few. The objective of this counseling is to provide a healthy small business community and to foster economic development, new business startups, expansion, new/retained jobs and sales growth.

In addition to the services listed above, the SBTDC works with Missouri Procurement Technical Assistance Centers (MO-PTAC) whose mission is to assist businesses in obtaining federal, state and local government contracts for products and services.

Northwest-Kansas City

Northwest-Kansas City is located in the Northland Innovation Campus at 6889 N. Oak Trafficway, Suite 400, Gladstone, MO, 64118.

The office has regular office hours Monday through Thursday from 9 a.m.- 5 p.m. and Friday from 8 a.m.- 5 p.m. Northwest-Kansas City offers bachelor completion and graduate level programs. For more information, visit the Northwest-Kansas City website at or visit www.nwmissouri.edu/kc.

Northwest Writing Center

Located on the second floor of Owens Library, the Northwest Writing Center offers tutoring to students wanting to become better writers. Any undergraduate or graduate student, staff or faculty member may visit the center or call (660) 562-1480 to reserve an appointment. Walk-in appointments are also welcome. Graduate Assistants and Peer Tutors will assist with any kind of writing task: essays, reports, research papers, letters and other assignments. While the Writing Center is not a professional editing service designed to proofread papers, tutors will gladly guide writers through prewriting, revising and editing strategies designed to develop a writer's skills. The Writing Center also provides small group tutoring and standing appointments. Finally, conversation partners are available for students wishing to further develop their speaking skills.

Percival DeLuca Memorial Collection

The Percival DeLuca Memorial Collection contains drawings, paintings, and prints by Percival DeLuca (1847-1914) and his contemporaries, as well as DeLuca family papers, diaries, and a portion of the family library. The collection also includes heirloom furniture which belonged to the family, including pieces from Duncan Phyfe and from the Napoleonic era, housed in permanent exhibition rooms. Some pieces are shown in rotation in the gallery. Located in the

Olive DeLuce Fine Arts Building, the collection is a valuable resource for scholarship as well as an exhibit for the general public.

Registrar's Office

The Office of the Registrar provides student services beginning with the student's first registration for courses, continuing through graduation and beyond. Inquiries concerning registration, academic standards, loan deferments, enrollment certifications, grade records, adding and dropping classes, degree audits, graduation requirements, and transcripts should be directed to this office, located on the second floor of the Administration Building.

Service and Engagement Office

The Office of Service and Engagement is responsible for providing community engagement opportunities, projects, and support to all Northwest students, faculty and staff as well as the coordination of Alternative Spring Break programs (ASB). The Office supports volunteer events, fundraisers and ASB trips, with the help of student groups such as Alternative Spring Break, Greeks, athletes, and all other Northwest organizations.

Student Account Services

Located on the first floor of the Administration Building, Student Account Services receives and processes all payments to Northwest. Inquiries concerning student financial accounts, installments, refunds and automatic applications of financial assistance should be directed to Student Account Services at (660) 562-1578.

Additional responsibilities include check cashing, parking permits, fax service and other services. Individuals seeking information about the University may call (660) 562-1212.

In cases of exceptional circumstances Student Account Services should be contacted for acceptable payment arrangements. The number to call is (660) 562-1583. (NOTE: If a delay in financial assistance creates an inability to pay on time, the Office of Scholarships and Financial Assistance should be contacted at (660) 562-1363).

Student Athlete Success Program

The Student Athlete Success Program provides academic support and guidance for varsity student-athletes similar to the Academic Success Coaching Program and similarly operates through the Academic Success & Retention unit. The program provides the same support and goals as the Academic Success Coaching program but accounts for the unique needs of a student athlete by offering programming in the Harr Student-Athlete Success Center, flexible scheduling, and additional individual meetings as needed. Staff communicate with coaches and athletic staff as well as academic advisors to provide holistic support to student-athletes to maximize their academic potential with a focus on persistence to graduation.

Student Media

Northwest Student Media, located in Wells Hall, includes broadcast, print and online facilities. The studios of KZLX-LP, KXCV/KRNW-FM, and KNWT-TV are located on the second floor of Wells Hall.

KZLX-LP is the award-winning campus radio station operated by and for Northwest students. The station offers on-the-air experience necessary for entering a career in radio broadcasting. Included are opportunities to develop skills in underwriting, production, management, programming, news and sports, and promotions. The station provides music and news for the campus, Maryville and surrounding area.

Additionally, students can further develop skills in announcing, feature production, programming, development and news on KXCV 90.5 FM, the 100,000-watt professional public radio station and KRNW 88.9 FM, a 38,000-watt station both located on the campus of Northwest Missouri State University. Both stations are non-commercial public stations that have a two-fold mission: one, to offer alternative programming that isn't available through

commercial radio, and two, to provide hands-on training opportunities to the students of the School of Communication and Mass Media at the University enabling them to be job ready upon graduation. Students can develop those skills through on-air board shifts, news gathering, writing and delivery and sports broadcast opportunities. KXCV and KRNW are multiple Missouri Broadcaster Association award-winning radio stations and provide the public radio mainstays of in-depth news through NPR's Morning Edition, All Things Considered and 19 daily local and regional newscasts. The stations also provide jazz, classical, and Americana music programming to their listening area, ranging from Omaha, Nebr. to Kirksville, Mo., and from Des Moines, Iowa, to Kansas City, Mo., and are members of NPR and American Public Media. Established in 1971, KXCV has been serving the area with top quality programming and entertainment and concentrating on student success, every student every day!

KNWT Student Television serves both the Northwest campus and the city of Maryville. Students learn the basic use of video recording and editing equipment, television directing and producing techniques, and station operations, while producing a wide variety of television programming. Programs are produced in our Wells Hall studios, live from our multicamera production truck, or on-location in the field. Student-produced programming includes campus and community newscasts, sports programs, talk shows, gaming and entertainment programming, student films and documentaries. Students have the opportunity to build skills in front of and behind the camera. KNWT-TV airs on Suddenlink Cable channel 8 in Maryville as well as online via Facebook and www.youtube.com/KNWTtv.

Student Publications is located on the lower level of Wells Hall and includes *The Northwest Missourian* weekly newspaper and *Tower* yearbook. Student Publications offers students practical experience for a journalism/communication career. All publications are governed by a student-operated editorial board. Northwest is one of the few universities/colleges in the country to have all three publications recognized as All-American award winners by the Associated Collegiate Press (ACP). *The Northwest Missourian* and *Tower* yearbook have been recognized for excellence and awarded Hall of Fame status by ACP.

The Northwest Missourian is a campus and community news forum. Students learn news writing, sports writing, feature writing, editorial writing, photography, advertising, graphic and design skills while working on the newspaper. An electronic version is available at www.nwmissourinews.com. *The Northwest Missourian* is recognized as a Pacemaker publication (top 1 percent in the nation) by the Associated Collegiate Press. It has been honored as one of the top six newspapers in the country by the Columbia Scholastic Press Association. *The Northwest Missourian* was inducted into the ACP Hall of Fame in 2000.

Tower yearbook is consistently honored as one of the top five yearbooks in the country. *Tower* was inducted into ACP's Hall of Fame in 1994 and is recognized as a Pacemaker publication by ACP and a Gold Crown winner by CSPA. Northwest was the first public university in the country to produce a CD-ROM supplement to the yearbook, and the first with a DVD supplement, and later, a companion online app. Today, *Tower* was most recently named a Pacemaker winner in 2021. Follow *Tower* on Facebook at www.facebook.com/TowerYearbook.

Student Support Services

Student Support Services is a federally-funded program designed to help its student members learn how to use the variety of Northwest resources to achieve and develop the professional skills necessary for successful employment. Program personnel help students understand their readiness for academic success, learn specific ways to improve their chances of success in college and develop appropriate expectations about college. Comprehensive services include academic, financial assistance, and career counseling. Students must apply for membership and should call the director, (660) 562-1862, to discuss opportunities available through Student Support Services. The office is located on the third floor of the Administration Building.

Textbook Services

Textbook Services coordinates the textbook usage program, in which a primary textbook is provided for most of the undergraduate courses. Students pay a per credit hour fee for textbook usage. Supplemental and/or additional books/materials may be required and can be purchased at the Bearcat Bookstore. Students pick up their textbooks at the beginning of each

semester and must return the books by 5 p.m. of the last day of finals for the semester. Late fees are assessed for books that are not picked up or returned on time. Students enrolled in web only courses may borrow their primary textbooks from Textbook Services. The request can be submitted by email to nwtxbk@nwmissouri.edu and needs to include 919#, course number(s) and address for shipping. Students must pay for shipping charges on borrowed materials. All textbooks, CDs and other course materials borrowed must be returned to Textbook Services, 800 University Drive, Northwest Missouri State University, Maryville, MO 64468 within one week after the final exam is complete. More information can be found on the Northwest web page under Textbook Services. Students may contact Textbook Services by emailing nwtxbk@nwmissouri.edu if they have specific questions.

Title IX and Equity Unit

The Title IX and Equity Unit provides campus community resources, including Bearcat Equity, Title IX, Title VI, Accessibility and Accommodations, and Minors on campus. More information is available at www.nwmissouri.edu/titleixequity/index.htm.

University Mathematics Laboratory

The Mathematics Laboratory, located in Garrett-Strong 2930, provides walk-in tutorial help for most mathematics courses. In addition, tutoring sessions are held for certain courses twice a week. The hours are posted by the lab.

University Police Department

Located in the Support Services Building, the University Police Department, staffed with commissioned officers, enforces state, local and University regulations to protect the welfare of the University community. The department operates 24 hours a day, every day of the year in order to assist in campus safety, fire safety, crime prevention and investigation and security on campus. The department also oversees vehicle registration and the enforcement of University parking regulations.

University Wellness Services

University Wellness Services, operating out of the Wellness Center, is the hub for all campus wellness activities and encompasses outpatient Clinical services, individual and group Counseling services, and Wellness Education and Prevention services. While remaining committed to quality outpatient care, Wellness Services focuses on wellness not only as prevention of disease, but as a philosophy of life. This philosophy emphasizes self-responsibility and taking an active role in maintaining one's health with the assumption that true health must consider the individual as an integration of mind, body, and spirit through considering social, emotional, spiritual, intellectual, occupational, environmental, financial, and physical wellness. Please visit the University Wellness Services website at www.nwmissouri.edu/wellness.

Clinic Services

Wellness Services provides clinical health services to full- and part-time students. In the fall and spring semesters, outpatient clinical services are offered between 8 a.m. and 5 p.m., Monday through Friday. Wellness Services will bill all insurance plans (except out-of-state Medicaid) for clinic services provided to Northwest students. Students will be financially responsible for lab, procedure, and injection charges not covered by insurance, as well as medications prescribed by our providers. Students without insurance will be responsible for the entirety of these lab, procedure, injection, and medication costs. The designated wellness fee paid by Northwest students covers the costs of copays and Office Visit Charges not covered by Insurance, making Wellness Services the most affordable and convenient healthcare provider for Northwest students.

Prior to enrollment, students must comply with certain health requirements to protect the health and safety of the Northwest community including:

- Completion of a Health History Form (required for all students).

- **MMR Immunization.** All Northwest students born during or after 1957 must show proof of immunization against Measles, Mumps, and Rubella (MMR). Students who do not show proof of MMR immunization will have a hold placed on registration for classes in the next semester. The following students are exempted from this requirement: Online-only students; Dual Enrollment Students.
- **Meningococcal Vaccination.** Per Missouri State Law, all students who reside in on-campus housing, or in Greek Life chapter houses, must provide proof that they have received the Meningococcal Conjugate (MCV4) Vaccine, after the age of 16 and within 5 years of initial enrollment. **Students will not be allowed to live on campus if this requirement is not met.** For more information, please review Wellness Services' Health History Form.
- **Tuberculosis Screening** (a series of questions) is required of all first-time students at Northwest Missouri State University. This screening is found on the Health History form that is given to all first-time Northwest students.
- **Tuberculosis Testing** is required for first-time students who: are born in a country with high incidence of TB based on CDC guidelines; who have spent more than three continuous weeks outside the United States in a country with high incidence of TB; and/or have a known exposure to TB. Contact Wellness Services at 660-562-1348, or by email at health@nwmissouri.edu with any questions you may have.

Counseling Services

Wellness Services is committed to the personal development and success of all Northwest students. Wellness Services provides counseling services that are a vital resource to help students reach their full potential. Students use these services to improve the way they live, learn, and grow. Wellness Services offers brief individual counseling to students, focusing on a wide variety of student concerns and offering guidance on managing issues such as anxiety, depression, and self-esteem. In addition, the following services are provided to the campus community: workshops, guest lectures, referral services, consultations, training and crisis intervention. Counseling services and outreach are provided by a staff of licensed mental health professionals to help students get the most out of their college experience.

Wellness Education and Prevention

This area of Wellness Services focuses on the overall wellness of our students. We help students realize they can make responsible and educated choices about their health and wellness by providing programming and presentations about all aspects of wellness. Wellness Education and Prevention staff play a vital role in campus compliance initiatives involving alcohol and other drugs, Title IX, Clery Act, and suicide prevention.

Peer Education

Bearcat Peer Education is a premier leadership opportunity within University Wellness Services that utilizes the expertise of students who are trained to provide educational programs and outreach on various wellness topics. Their mission is to provide an effective peer network to encourage, support, and promote healthy living for all students. We have three student organizations within Bearcat Peer Education: Active Minds (a mental health advocacy group), It's On Us (education and prevention of sexual and relationship violence) and the Student Wellness Advisory Council (a group that works to advise and help direct Wellness Services and the programs and services provided to students). For more information about becoming a Peer Educator, email peeredu@nwmissouri.edu.

University Requirements

Online Programs

Northwest offers a number of programs that may be taken entirely online. All of these programs have face-to-face options as well with the exception of the B.S.N. program. See departmental pages for program requirements. For more information regarding Northwest's online programs, please visit www.online.nwmissouri.edu.

B.S.N. Nursing Completion Degree Program (R.N. to B.S.N.) (p. 324)

B.S. Accounting: Managerial (p. 253)

B.S. Accounting: Public (p. 253)

B.S. Business Administration (p. 258)

B.S. Business Management (p. 258)

B.S. Business Technology (p. 285)

B.S. Communication: Public Relations (p. 268)

B.S. Criminology (p. 125)

B.S. Finance: Financial Management (p. 256)

B.S. General Studies (p. 130)

B.S. Management Information Systems: Cybersecurity (p. 291)

B.S. Marketing (p. 262)

B.S. Psychology (p. 334)

Pre-Professional Programs

Northwest offers pre-professional courses of study which encompass many careers. In most instances, these courses have been compiled in conjunction with specific requirements of professional schools. Many professional schools require specific procedures in regard to entrance tests, application deadlines and interviews. Thus, it is mandatory that students have a specific pre-professional advisor who is versed in the necessary requirements for admission to the professional school.

In many professions, no specific undergraduate major must be followed and the student may major in any area of interest. Therefore, students should have both a pre-professional and a major advisor.

| Pre-Profession | Advisor | Academic Area |
|----------------|---------------------|---------------|
| Chiropractic | Jeffrey Thornsberry | Biology |
| Dental Hygiene | Julie Johnson | Biology |
| Dentistry | James Campbell | Biology |
| Engineering | Himadri Chakraborty | Physics |

| | | |
|-----------------------------------|----------------------|-----------------------|
| Law | TBD | Political Science |
| Clinical Laboratory Sciences | Gretchen Thornsberry | Biology |
| Medicine | Jeffry Thornsberry | Biology |
| Nursing | Julie Johnson | Biology |
| Occupational Therapy | Alisha Campbell | Biology |
| Optometry | Jeffry Thornsberry | Biology |
| Osteopathic & Allopathic Medicine | Jeffry Thornsberry | Biology |
| Pharmacy | Jeffry Thornsberry | Biology |
| Physical Therapy | Alisha Campbell | Biology |
| Radiology | Julie Johnson | Biology |
| Respiratory Therapy | Julie Johnson | Biology |
| Veterinary Medicine | Peter Adam | Biology |
| | Jacqueline Lacy | Agricultural Sciences |

The Northwest Core

The Northwest Core (General education)

Northwest prides itself on providing students with meaningful learning opportunities through academic and other educational, co-curricular experiences. The Northwest Core is designed to give students the knowledge and skills to:

- lead productive and meaningful lives
- practice life-long learning
- engage intelligently and humanely with diverse and global populations
- excel in their chosen careers
- act as leaders in their communities

The Northwest Core emphasizes not only academic, but co-curricular understanding and experiences:

The Northwest Core - Academics

Through coursework, The Northwest Core enables student's development of the intellect and creative capabilities to study the world as it has been, understand it as it is, and imagine it as it might be.

The Northwest Core - Co-Curriculum

Co-Curricular learning extends The Northwest Core outcomes developed in the classroom (explained in "Institutional Learning Outcomes," below) to the student's involvement in an inclusive campus community experience--engagement in committed action, personal development through continuous learning, and leadership in a comprehensive professional environment.

This integration of The Northwest Core curriculum with the co-curriculum affords that from Day One of graduation, students are both career-ready *and* prepared to be thoughtful, productive citizens.

The Northwest Core Academics and the State of Missouri's Core 42

Through its **courses** and **outcomes** in the various **knowledge areas** (*described below*), The Northwest Core satisfies all criteria of the State of Missouri 42 General Education program. This program allows transfer of credit for completed lower-level general education courses among all State of Missouri colleges and universities. Each qualifying general education course at any Missouri public higher education institution is considered equivalent to a MOTR (Missouri Transfer) course. This program has the following effects on students who transfer among Missouri public colleges and universities:

1. Students who complete the Associate of Arts degree or who complete the Missouri CORE 42 at a State of Missouri community college or university and then transfer to another Missouri public university shall be considered as having completed all lower-division general education requirements at the receiving institution. Students shall receive full credit, including any prerequisites or requirements in the major, for all MOTR courses transferred. The receiving institution cannot require the student take any additional lower-division general education courses to replace MOTR courses already taken. **The student may, however, have to take additional lower-division courses to fulfill program or institutional requirements.**

2. Students who do **not** complete either the Associate of Arts or the CORE 42 shall receive credit at a receiving institution for each MOTR course completed at a sending institution. Students shall receive full credit, including any prerequisites or requirements in the major, for all MOTR courses transferred. After receiving credit for MOTR courses, the student shall complete the CORE 42 at the receiving institution. **The student may have to take additional lower-division courses to fulfill program or institutional requirements.**

In short, fulfilling the general education requirements at one Missouri public college or university is the equivalent of fulfilling the general education requirements—including The Northwest Core—at any other Missouri public higher education institution, too.

Institutional Learning Outcomes

Through academic and co-curricular experiences, The Northwest Core focuses on the seven fundamental outcomes advocated by the university. The first four of these align directly with the State of Missouri CORE 42 Basic Outcomes:

- **Valuing**--Northwest students will understand the formation and context of values, both their own and those of others.
- **Managing Information**--Northwest students will successfully locate, retrieve, organize, store, synthesize, and annotate various forms of information.
- **Communication**--Northwest students will understand the role of writing and speaking in living and learning, and speak and write effectively in a variety of contexts.
- **Critical (Higher Order) Thinking**--Northwest students will engage in disciplined thought to generate and communicate ideas.

In addition, the Northwest Core emphasizes the following complementary outcomes:

- **Diversity, Equity, and Inclusion**--Northwest students will be culturally competent citizens who understand and engage comfortably with difference.
- **Teamwork**--Northwest students will engage in team-based activities, and understand the logistics, value and challenges of effective teamwork.
- **Leadership**--Northwest students will understand effective and ethical leadership and will practice the skills required to engage in it.

These outcomes are realized through the student's academic and co-curricular work in the Knowledge Areas of the Northwest Core.

The Northwest Core--Academics and Degree Requirements

In order to complete the bachelor's degree, students must take 1) The Northwest Core requirements for their specific degree, plus 2) the Institutional Requirements courses, plus 3) major and/or minor requirements as specified by the department(s), plus 4) electives as needed to total a minimum of 120 credit hours.

It is important for students to work closely with academic advisors when selecting courses, as not all courses fulfill requirements for degrees. Students who change majors, choose double majors, or additional certification, or who do not choose courses carefully may need more than 120 semester hours to complete a degree program.

Non-MOTR Courses in the Northwest Core

In all areas of The Northwest Core, the student is provided at least one--and sometimes several--MOTR courses from which to choose. The MOTR courses are indicated by the Core 42 MOTR symbol (see courses below). However, some of The Northwest Core areas also contain one or more non-MOTR courses. **If a student chooses to take any non-MOTR courses listed below,**

such courses will count toward The Northwest Core, but might not be accepted by other Missouri public institutions.

Northwest Core - Knowledge Areas and Courses

The Northwest Core Academics courses are required for the following degrees: Bachelor of Arts, the Bachelor of Fine Arts, the Bachelor of Music Education, the Bachelor of Science, the Bachelor of Science in Education-, the Bachelor of Science in Nursing, and the Bachelor of Science in Clinical Laboratory Sciences.

Required courses for the Bachelor of Applied Science may be chosen from The Northwest Core requirements. See Bachelor of Applied Science (p. 87) for specific information on this degree.

A course taken to fulfill The Northwest Core Academics Requirements may be used to satisfy other degree or program requirements as long as such application is not restricted in this catalog. Such multiple applications will not reduce the total hours needed to earn a degree, nor the total required hours necessary for any comprehensive majors, regular majors, minor, certificates, or other programs.

It is recommended that students consult their academic advisors to take their Core courses in an efficient, timely manner.

✓ The checkmark symbol indicates that the course has been identified as equivalent to a MOTR (Missouri Transfer) course.

Social and Behavioral Sciences (choose 2 courses - one from each of two different groups)

See AGRI (p. 340), ECON (p. 377), GEOG (p. 405), PSYC (p. 455), SOC (p. 465), and CORE (p. 369) for course descriptions.

Economics

| | | |
|------------|--|---|
| AGRI 03102 | Principles of Microeconomics in Agriculture✓ | 3 |
| ECON 52130 | Survey of Economics✓ | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |

Geography

| | | |
|------------|----------------------------|---|
| GEOG 32101 | Introduction to Geography✓ | 3 |
|------------|----------------------------|---|

Psychology

| | | |
|------------|------------------------|---|
| PSYC 08103 | General Psychology✓ | 3 |
| PSYC 08299 | Educational Psychology | 3 |

Sociology

| | | |
|-----------|--------------------|---|
| SOC 35101 | General Sociology✓ | 3 |
|-----------|--------------------|---|

Anthropology

| | | |
|-----------|-----------------------|---|
| SOC 35108 | General Anthropology✓ | 3 |
|-----------|-----------------------|---|

Interdisciplinary

| | | |
|------------|--|--------|
| CORE 90212 | Interdisciplinary Engagement: Social/Behavioral Sciences | 3 to 4 |
|------------|--|--------|

Civics (choose 1 History and 1 Political Science course)

See HIST (p. 410), POLS (p. 452), and CORE (p. 369) course descriptions.

History

| | | |
|------------|--|--------|
| HIST 33155 | The United States to 1877✓ OR | 3 |
| HIST 33156 | The United States since 1877✓ | 3 |
| CORE 90208 | Interdisciplinary Engagement: American Experiences-History | 3 to 4 |

Political Science

| | | |
|------------|--|--------|
| POLS 34102 | Introduction to American Government and Politics✓ | 3 |
| CORE 90209 | Interdisciplinary Engagement: American Experiences-Political Science | 3 to 4 |

Communication

See ENGL (p. 398), COM (p. 366), and CORE (p. 369) for course descriptions.

Written Communication (at least 6 credits)

See ENGL (p. 398) course descriptions for meeting prerequisites and placement requirements.

Any student with a 40 or above on the Directed Self Placement questionnaire or an ACT English score of 18 or above:

| | | |
|------------|---|--------|
| ENGL 10111 | Composition I: Academic Literacies | 3 |
| ENGL 10112 | Composition II: Writing as Engagement✓ | 3 |
| CORE 90202 | Interdisciplinary Engagement: Written Communication A | 3 to 4 |

Any student with a 60 or above on the Directed Self Placement questionnaire or an ACT English score of 27 or above:

| | | |
|------------|---|--------|
| ENGL 10115 | Accelerated Composition | 3 |
| CORE 90203 | Interdisciplinary Engagement: Written Communication B | 3 to 4 |

Students who have an ACT English score of 27 or above or a 60 or above on the Directed Self Placement may elect to take ENGL 10111 and ENGL 10112 rather than ENGL 10115.

Students with credit for ENGL 10111 and an ACT English score of 27 or a 60 or above on the Directed Self Placement may elect to take ENGL 10115 rather than ENGL 10112.

Oral Communication (choose 1 course)

| | | |
|------------|--|--------|
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| CORE 90201 | Interdisciplinary Engagement: Oral Communication | 3 to 4 |

Natural Sciences

See AGRI (p. 340), BIOL (p. 354), CHEM (p. 362), GEOL (p. 407), PHSC (p. 450), PHYS (p. 450), and CORE (p. 369) for course descriptions.

Life Sciences (choose 1 course with corresponding laboratory)

| | | |
|------------|---|--------|
| AGRI 03130 | Plant Science✓ | 4 |
| BIOL 04102 | General Biology✓ | 3 |
| BIOL 04103 | General Biology Laboratory✓ | 1 |
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| CORE 90213 | Interdisciplinary Engagement: Life Sciences | 3 to 4 |

Note: AGRI 03130 and CORE 90213 have the lab included.

Physical Sciences (choose 1 course with corresponding laboratory)

| | | |
|------------|---|---|
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| GEOL 27110 | General Geology✓ | 3 |
| GEOL 27111 | General Geology Laboratory✓ | 1 |
| GEOL 27114 | General Earth Science✓ | 3 |
| GEOL 27115 | General Earth Science Laboratory✓ | 1 |
| PHSC 40102 | The Physical Sciences: Integrated Approach✓ | 3 |
| PHSC 40103 | Physical Science Laboratory: Integrating Inquiry✓ | 1 |
| PHSC 40122 | Descriptive Astronomy✓ | 3 |
| PHSC 40123 | Descriptive Astronomy Laboratory✓ | 1 |
| PHYS 25110 | General Physics I✓ | 3 |

| | | |
|------------|---|--------|
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |
| CORE 90214 | Interdisciplinary Engagement: Physical Sciences | 3 to 4 |

Note: CORE 90214 has lab included.

Mathematical Sciences (choose 1 course)

See MATH (p. 424) and CORE (p. 369) for course descriptions.

Advisement necessary for correct selection.

| | | |
|------------|--|--------|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17115 | Concepts of Mathematics✓ | 3 |
| MATH 17116 | Mathematical Modeling✓ | 3 |
| MATH 17117 | Precalculus✓ | 5 |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| MATH 17120 | Calculus I | 4 |
| MATH 17171 | Fundamentals of Mathematics | 3 |
| CORE 90204 | Interdisciplinary Engagement: Mathematical Reasoning | 3 to 4 |

Humanities and Fine Arts

See ART (p. 347), COM (p. 366), EDUC (p. 393), ENGL (p. 398), GEOG (p. 405), HUM (p. 419), LANG (p. 420), MMED (p. 435), MUS (p. 440), PHIL (p. 449), POLS (p. 452), REC (p. 460), THEA (p. 467), and CORE (p. 369) for course descriptions.

Literature (choose 1 course)

| | | |
|------------|--|--------|
| ENGL 10220 | Introduction to Literature✓ | 3 |
| CORE 90210 | Interdisciplinary Engagement: Literature | 3 to 4 |

Humanities (choose 2 courses - one from each of two different disciplines)

| | | |
|------------|--|--------|
| COM 29225 | Intercultural Communication | 3 |
| COM 29235 | Introduction to Classical Rhetoric | 3 |
| EDUC 61252 | Pluralism in a Multicultural Society | 3 |
| ENGL 10224 | Multiethnic Literature of the United States | 3 |
| ENGL 10226 | Modern and Contemporary World Literature | 3 |
| GEOG 32102 | People and Cultures of the World✓ | 3 |
| HUM 26102 | Western Civilization I: The Ancient World to 1500✓ | 3 |
| HUM 26103 | Western Civilization II: 1500 to the Present✓ | 3 |
| HUM 26104 | The Eastern World | 3 |
| HUM 26162 | Comparative Religions✓ | 3 |
| HUM 26202 | Patterns in World Societies to 1500 | 3 |
| HUM 26203 | Patterns in World Societies Since 1500 | 3 |
| LANG 14131 | French: Communication and Culture I✓ | 3 |
| LANG 14132 | French: Communication and Culture II✓ | 3 |
| LANG 14141 | Spanish: Communication and Culture I✓ | 3 |
| LANG 14142 | Spanish: Communication and Culture II✓ | 3 |
| LANG 14161 | Russian: Communication and Culture I | 3 |
| LANG 14162 | Russian: Communication and Culture II | 3 |
| MMED 20221 | Ethnographic Film Study✓ | 3 |
| MUS 19280 | World Music✓ | 3 |
| PHIL 39171 | Introduction to Philosophy✓ | 3 |
| PHIL 39275 | Professional Ethics✓ | 3 |
| PHIL 39276 | Biomedical Ethics✓ | 3 |
| PHIL 39277 | Social Justice | 3 |
| POLS 34105 | The African World | 3 |
| REC 45211 | Leisure and Society | 3 |
| CORE 90206 | Interdisciplinary Engagement: Global Experiences | 3 to 4 |
| CORE 90207 | Interdisciplinary Engagement: Western Experiences | 3 to 4 |

Fine Arts (choose 1 course)

| | | |
|-----------|---|---|
| ART 13102 | Art Appreciation✓ | 3 |
| ART 13109 | Survey of Art I: Prehistory through Medieval Art✓ | 3 |

| | | |
|------------|---|--------|
| ART 13111 | Survey of Art II: Renaissance to the Present✓ | 3 |
| ART 13235 | Intersections in the Arts | 3 |
| MUS 19201 | The Enjoyment of Music✓ | 3 |
| MUS 19202 | Jazz Appreciation✓ | 3 |
| MUS 19222 | American Popular Music✓ | 3 |
| THEA 43101 | Theatre Appreciation✓ | 3 |
| CORE 90211 | Interdisciplinary Engagement: Fine Arts | 3 to 4 |

Total Credit Hours: 44-47

Interdisciplinary Engagement courses are special offerings which are cross-disciplinary. Availability of these courses and their disciplinary pairings will be posted online. Check with your advisor concerning details. Students cannot take more than three Interdisciplinary Engagement courses to fulfill the requirements of The Northwest Core.

Note: Students who hold an Associate of Arts degree from a regionally-accredited institution will have satisfied The Northwest Core. The student might, however, have to take additional lower-division courses to fulfill program or institutional requirements.

Students who have completed the 42-hour block at a Missouri college/university will have satisfied The Northwest Core. The student might, however, have to take additional lower-division courses to fulfill program or institutional requirements.

Institutional Requirements

Institutional requirements are courses not included within The Northwest Core but that are required nonetheless because their content has been deemed vital to the success of students in their higher education career and beyond. Northwest Missouri State University requires two such courses.

Requirements

Required: one course from each area

See INCO (p. 419), CSIS (p. 371), EDCI (p. 378), EDUC (p. 393), GEOL (p. 407), HUM (p. 419), and PHSC (p. 450) for course descriptions.

University Seminar

| | | |
|------------|--------------------|---|
| INCO 77101 | University Seminar | 1 |
|------------|--------------------|---|

Digital Literacy (choose 1 course)

| | | |
|------------|--|---|
| CSIS 44101 | Foundations of Computing | 3 |
| CSIS 44130 | Computers and Information Technology | 3 |
| EDCI 62130 | Educational Computing and Technology | 3 |
| EDUC 61145 | Information and Educational Technology | 3 |
| GEOL 27130 | Information Technology and Science | 3 |
| PHSC 40106 | Computational Methods in Science | 3 |

Total Credit Hours: 4

Undergraduate Degrees

Pursuant to Missouri HB 1606 (2018), information regarding program lengths, costs, and students' median time-to-degree, as well as employment and wage outcomes, can be found at <https://jobs.mo.gov/jobseeker/training-and-education>. Employment and wage outcomes are limited to completers found employed in Missouri. Students not found as employed may also be working out-of-state, self-employed, or enrolled in continuing education. Additional information on programs and program outcomes may be found by searching at <https://scorecard.mo.gov/Search>.

Bachelor of Applied Science

The curriculum leading to the Bachelor of Applied Science degree provides for the transfer of:

- Vocational or technical coursework taken as part of a one- or two-year technical certificate
- Associate of Applied Science or an eligible vocational or technical focused Associate of Science degree program from a regionally-accredited college
- 24 hours or more of U.S. Military Joint Services Transcript credit

The curriculum is designed to provide the additional education necessary for students with vocational or technical non-transferable certificate/degrees to earn a bachelor's degree.

Bachelor of Applied Science Eligibility Requirements:

Only students who have earned approved vocational or technical certificates or degrees, or military credit are eligible for admission into the Bachelor of Applied Science program. Eligible students will have completed:

- A one-year technical certificate from a community/junior college
- A two-year technical certificate from a community/junior college
- An Associate of Applied Science degree
- An Associate of Science degree (eligible technical or vocational programs only)
- Military/Joint Services Transcript credit - 24 to 59 hours
- Military/Joint Services Transcript credit - 60 or more hours

Bachelor of Applied Science Degree Requirements

The completion of the Bachelor of Applied Science degree requires:

- A minimum of 24 semester hours in courses numbered above 300
- A minimum of 30 semester hours completed in residence, with the last 10 hours of academic work completed at Northwest
- A minimum total of 120 earned academic hours
- A minimum overall and Northwest grade point average of 2.0

Option 1

A program of study for candidates who have completed a one-year certificate program or 24 to 59 hours of Military/JST credit will be developed with the following framework:

| | |
|--|----|
| Institutional Requirements | 3 |
| Northwest Emphasis | 39 |
| Transferred credit and/or Directed Northwest Electives | 45 |

Subtotal: 120**Option 2**

A program of study for candidates who have completed a two-year certificate program, Associate of Applied Science degree, eligible vocational or technical Associate of Science degree or 60 or more hours of Military /JST credit will be developed with the following framework:

| | |
|--|----|
| Northwest Core Requirements | 33 |
| Institutional Requirements | 3 |
| Northwest Emphasis | 24 |
| Transferred credit and/or Directed Northwest Electives | 60 |

Subtotal: 120**Northwest Core and Institutional Requirements:**

Candidates for the Bachelor of Applied Science degree have more flexibility and fewer Core requirements than traditional Bachelor's Degree candidates. Students complete 33 hours of Northwest Core classes and 3 hours from the Institutional Requirements, which must include:

Courses

| | | |
|------------|---|---|
| ENGL 10111 | Composition I: Academic Literacies | 3 |
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| HIST 33155 | The United States to 1877✓ | 3 |
| POLS 34102 | Introduction to American Government and Politics✓ | 3 |
| | Digital Literacy (choose 1 course) | 3 |

Some emphasis areas require additional prescribed core coursework specific to the discipline. After satisfying the required Northwest Core coursework and Institutional requirements listed above (15 hours) and any prescribed core coursework specific to the emphasis area, the student will complete additional Northwest Core courses (p. 82) to total the required 36 hours of Northwest Core and Institutional Requirements.

Note: ENGL 10110 Introduction to College Writing is a prerequisite for students who do not meet placement criteria for ENGL 10111.

Bachelor of Applied Science Emphasis:

Students eligible for the Bachelor of Applied Science degree choose an emphasis area for their coursework at Northwest. As stated above, a student's emphasis will be 24 or 39 Northwest hours, determined by the student's transfer credit and/or degree prior to attending Northwest. The emphasis area is typically chosen from majors offered at Northwest, but students may also work with an advisor to develop an interdisciplinary emphasis area to meet their specific needs and interests. Each department will have specific coursework requirements related to the chosen emphasis area, some of which may require prerequisites. Coursework requirements for a specific emphasis may be obtained from the B.A.S Advisors listed below.

Directed Electives:

Bachelor of Applied Science students will choose general electives to reach the required 120 total hours from those courses outlined by the emphasis department.

B.A.S. Advisors:

Agriculture—Rod Barr

Applied Computing—Cari Cline

Child and Family Studies—Lauren Leach-Steffens

- Computer Business Applications—Cari Cline
- Emergency and Disaster Management—Mark Corson
- Food Services—TBD
- Geographical Information Systems—Ming-Chih Hung
- Geography—Brett Chloupek
- Information Technology—Matthew Schieber
- Marketing/Management—Ben Blackford
- Psychology—Terry Long

The advisors listed above are from popular B.A.S. emphasis areas, however, emphasis areas are not limited to those listed. For additional information and questions, students may contact a transfer advisor in the Student Success Center.

Bachelor of Arts

The curriculum leading to the Bachelor of Arts degree emphasizes the fine arts, languages, literature, history, and the related social studies, and is often chosen as a pre-professional curriculum by those students who desire a general education, or for entrance into the world of law, the ministry or other professions.

The number of hours in the major, minor, and elective categories will vary depending on the major and minor selected. The Bachelor of Arts degree requires a minimum of 32 semester hours in courses numbered above 300. A minimum of 30 semester hours must be completed in residence, with the last 10 hours of academic work completed at Northwest. A minimum total of 120 academic hours are required for this degree.

Approved majors for the Bachelor of Arts degree are listed in the departments.

B.A. Degree

Requirements

| | |
|---|----------|
| The Northwest Core | 44 to 47 |
| Institutional Requirements | 4 |
| Specific Requirement: One Modern Language | 9 |
| Major, Major/Minor, or Major/Minor Requirements | 54 to 60 |
| Electives and Other Departmental Requirements | 0 to 9 |

Modern Language: Please see the “Language Requirement” (p. 160) statement within the Language, Literature, and Writing Department.

Total Credit Hours: 120

Bachelor of Fine Arts

The Bachelor of Fine Arts degree with a Major in Art is offered as a program of study emphasizing professional preparation in the studio areas of art. Within the 72 semester hours required for the major, the student must select a specialization (from ceramics, drawing, painting, photography, printmaking, sculpture, fibers, or graphic design).

For the B.F.A. degree, a minimum of 40 semester hours must be completed in courses numbered above 300. A minimum of 30 semester hours must be completed in residence, with the last 10 hours of academic work completed at Northwest. A minimum total of 120 academic hours are required for this degree.

B.F.A. Degree

Requirements

| | |
|----------------------------|----------|
| The Northwest Core | 44 to 47 |
| Institutional Requirements | 4 |
| Comprehensive Major in Art | 72 |

Total Credit Hours: 120

Bachelor of Music Education

Completion of this curriculum, other University requirements, and minimum overall grade point average qualifies a student to receive a Bachelor of Music Education degree. Please reference the Professional Education Handbook.

The Bachelor of Music Education degree requires a minimum of 40 semester hours in courses numbered above 300. A minimum of 30 semester hours must be completed in residence, with the last 10 hours of academic work completed at Northwest. A minimum total of 120 academic hours are required for this degree.

All degrees in education are subject to state requirements which may change at any time due to action of the State Board of Education.

The Bachelor of Music Education degree is available with these majors: Instrumental Music K-12, Vocal Music K-12.

B.M.E. Degree

Requirements

| | |
|-------------------------------------|----------|
| The Northwest Core | 44 to 47 |
| Institutional Requirements | 4 |
| Major Requirements | 62 to 64 |
| Professional Education Requirements | 35 to 36 |
| Degree Requirement | 3 |

Major Requirements: see Department of Fine and Performing Arts (p. 97) section of this catalog.

Total Credit Hours: 148

Bachelor of Science

The curriculum leading to the Bachelor of Science degree emphasizes mathematics and the natural sciences and offers a pre-professional program for mathematicians, physicists, biologists, physicians, nurses, psychologists, and business administrators.

The number of hours in the major, minor, and elective categories will vary depending on the major and minor selected. The Bachelor of Science degree requires a minimum of 40 semester hours in courses numbered above 300. A minimum of 30 semester hours must be completed in residence, with the last 10 hours of academic work completed at Northwest. A minimum total of 120 academic hours are required for this degree.

B.S. Degree

Requirements

| | |
|---|----------|
| The Northwest Core | 44 to 47 |
| Institutional Requirements | 4 |
| Major, Major/Minor, or Major/Major Requirements | 55 to 60 |
| Electives and Other Departmental Requirements | 9 to 17 |

Total Credit Hours: 120

Bachelor of Science in Clinical Laboratory Sciences

In conjunction with approved hospitals and medical centers.

The curriculum leading to the Bachelor of Science in Clinical Laboratory Sciences degree emphasizes biology and chemistry. Minimum academic prerequisites are established by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) and are taken on the

Northwest campus during the first three years along with other courses required by the University. The fourth year (senior year) is a structured educational program in an affiliated clinical laboratory. The clinical program is accredited through NAACLS. Upon satisfactory completion of the clinical program, a minimum of 30 hours of credit are granted and the student is awarded a B.S. in Clinical Laboratory Sciences degree. Acceptance into an affiliated program is competitive and will be determined by the quality of academic work completed by the student during the first three years of study. Admission to the clinical program is decided entirely by the hospitals. Acceptance into the University program does not guarantee acceptance of the student by an affiliated clinical program. A minimum of 30 semester hours must be completed at Northwest. A minimum total of 120 academic hours are required for this degree.

Students who already have a bachelor's degree and who wish to enter the field may do so by applying directly to the hospital that has an approved program. Applicants who have completed minimum requirements seven or more years before application must update microbiology and biochemistry. If a B.S. in Clinical Laboratory Sciences is desired, then University requirements for the degree must also be fulfilled.

Complete application deadlines vary with the clinical program. Programs should be contacted during the Spring semester prior to the year you want to start. As an example, application deadlines can vary from July 1st to October 15th. Applications are processed through the program director/education coordinator of the clinical program.

Selection is done by each clinical program. Criteria include state of health, academic performance, and personal characteristics. Usually, a 2.5 minimum grade point average is required.

Enrollment is limited by the class size of each clinical program. Costs vary with each clinical program. Upon graduation, students are eligible to take a national certification examination. Passing the examination is not a condition for receiving the B.S. in Clinical Laboratory Sciences degree. Financial assistance varies with each clinical program. The student should contact each program and the Northwest Office of Scholarships and Financial Assistance.

Hospitals and Officials

Hospitals and officials in association with the Clinical Laboratory Sciences degree:

Des Moines, Iowa

Mercy College of Health Sciences Clinical Laboratory Science Program
Kyla Dippold, MS, MLS (ASCP), Program Chair and Assistant Professor

Kansas City, Missouri

St. Luke's Hospital of Kansas City - Clinical Laboratory Science Program
Jane Rachel, MA, MT (ASCP), Program Director

North Kansas City, Missouri

North Kansas City Hospital - School of Clinical Laboratory Science
Marisa K. James MA, MT (ASCP), Program Director

Omaha, Nebraska

Nebraska Methodist Hospital - Medical Laboratory Science Program
Julie Richards, MPA, MT (ASCP) BB, Program Director

B.S. in Clinical Laboratory Sciences

Requirements

The Northwest Core
Institutional Requirements

44 to 47
4

Science and Math
Clinical Laboratory Sciences Courses at Approved Teaching
Hospital

56 to 59
30

Required Courses

| | | |
|------------|------------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04310 | Cell Biology | 4 |
| | OR | |
| BIOL 04440 | Molecular Biology | 4 |
| | OR | |
| MATH 17114 | General Statistics✓ | 3 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04438 | Human Physiology | 4 |
| BIOL 04444 | Immunology | 5 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24322 | Analytical Chemistry | 3 |
| CHEM 24323 | Analytical Chemistry Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| CHEM 24362 | Elementary Biochemistry | 3 |
| CHEM 24363 | Elementary Biochemistry Laboratory | 1 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |
| MATH 17116 | Mathematical Modeling✓ | 3 |
| | OR | |
| MATH 17117 | Precalculus✓ | 5 |
| | OR | |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| | OR | |
| MATH 17120 | Calculus I | 4 |

Clinical Laboratory Sciences

In conjunction with approved hospitals and medical centers.

Total Credit Hours: 123

Bachelor of Science in Education

Completion of this curriculum, other University requirements, and minimum overall grade point average qualifies the student to receive a Bachelor of Science in Education degree. Please reference the Professional Education Handbook.

The Bachelor of Science in Education degree requires a minimum of 40 semester hours in courses numbered above 300. A minimum of 30 semester hours must be completed in residence, with the last 10 hours of academic work completed at Northwest. A minimum total of 120 academic hours are required for this degree.

All degrees in education are subject to state requirements which may change at any time due to action of the State Board of Education.

Specific requirements within, or in addition to, The Northwest Core requirements, must be taken for teacher certification.

Students pursuing a Bachelor of Science in Education degree may follow one of the following programs. Listed below each program are areas of certification which may be followed under that particular program.

Program

Elementary

Elementary (Certifies Grades 1-6)

Early Childhood (Certifies Birth to Grade 3)

Early Childhood Special Education (Certifies Birth to Grade 3)

Spanish (Certifies Grades K-9)

Special Education: Cross Categorical (Certifies Grades K-12)

Middle School

Agriculture (Certifies Grades 5-9)

Business Education (Certifies Grades 5-9)

Speech/Theatre (Certifies Grades 5-9)

Language Arts (Certifies Grades 5-9)

Mathematics (Certifies Grades 5-9)

Science (Certifies Grades 5-9)

Social Science (Certifies Grades 5-9)

Secondary

Agriculture (Certifies Grades 9-12)

Business (Certifies Grades 9-12)

English (Certifies Grades 9-12)

Health (Certifies Grades 9-12)

Mathematics (Certifies Grades 9-12)

Science: Biology, Chemistry, Earth Science, or Physics (Four separate programs) (Certifies Grades 9-12)

Social Studies: History (Certifies Grades 9-12)

Speech/Theatre (Certifies Grades 9-12)

Elementary/Secondary

Art (Certifies Grades K-12)

Physical Education (Certifies Grades K-12)

Spanish (Certifies Grades K-12)

Total Credit Hours: 120

Information regarding admittance to teacher education, advanced standing requirements, directed teaching, and certification is located within the School of Education section of this catalog.

Bachelor of Science in Nursing Completion Program

This curriculum allows active nurses to complete a Bachelor of Science in Nursing degree. As a liberal arts degree, the program includes The Northwest Core and Institutional Requirements, as well as upper-division nursing courses. Successful completion of the program results in the conferral of the Bachelor of Science in Nursing degree.

Admission to the R.N.-to-B.S.N. Completion Program requires a current R.N. license that is proven to be in good standing.

The curriculum below reflects the total course requirements. As such, students transferring into the program may already have credit for a number of courses. Students interested in course equivalencies are referred to the Northwest Admissions Office web page on Transfer Equivalencies and/or Articulation Agreements (<https://www.nwmissouri.edu/admissions/apply/transfer/equivalencies.htm>). In addition, the degree requires a minimum total of 120 academic semester hours, including at least 40 hours in courses numbered above 300. A minimum of 30 hours must be taken at Northwest. Last hours of residency are waived.

B.S.N. Degree Requirements

Requirements

| | |
|------------------------------|----------|
| The Northwest Core | 44 to 47 |
| Institutional Requirements | 3 |
| Nursing Program Requirements | 30 |
| Credit for RN license | 43 |

The Northwest Core (p. 82)

Institutional Requirements (p. 86)

Total Credit Hours: 120

Academic Structure

College of Arts and Sciences

- Department of Fine and Performing Arts (p. 97)
- Department of Humanities and Social Sciences (p. 124)
- Department of Language, Literature, and Writing (p. 160)
- Department of Mathematics and Statistics (p. 177)
- Department of Military Science (p. 157)
- Department of Natural Sciences (p. 185)
- Honors Program (p. 230)

Professional Schools

- School of Agricultural Sciences (p. 233)
- Melvin D. and Valorie G. Booth School of Business (p. 250)
- School of Communication and Mass Media (p. 264)
- School of Computer Science and Information Systems (p. 283)
- School of Education (p. 299)
- School of Health Science and Wellness (p. 316)

The College of Arts and Sciences

Associate Provost: Dr. Michael Steiner

The College of Arts and Sciences includes the Departments of Fine and Performing Arts; Humanities and Social Sciences; Language, Literature, and Writing; Mathematics and Statistics; Military Science; Natural Sciences; and the Honors Program.

The College of Arts and Sciences provides skills in communication, critical thinking, problem solving, managing information, and valuing; a foundation in liberal arts, science and mathematics; individual professional preparation in selected fields; pre-professional education; and cultural enrichment. The college offers a wide spectrum of undergraduate majors, minors, and cooperative programs with other units of the University. Additionally, many individualized programs are available to professionally-oriented students. Graduates are readily accepted into graduate and professional schools or placed in positions compatible with their field of study.

Programs in the College of Arts and Sciences provide a rich collegiate experience and the technical and intellectual skills necessary for professional competence. The traditional classroom setting is complemented by laboratory classes and field experiences, enabling the student to put into immediate practice the concepts and understandings gained. Through these processes, students have opportunities to grasp the value of individual integrity, respect for others' ideas, sensitivity to cultural diversity and to engage in personal growth.

General education and subject-field courses offered by the college assure an understanding of the responsibilities of citizenship, the role of the scientific process and problem solving in daily living, and awaken students to the values of their own cultural heritage and that of others. These courses assist students in learning to apply and expand current knowledge in educational experiences that make students better contributors to society and assists them in leading more rewarding lives. Students learn as individuals and as members of teams to communicate ideas effectively, apply emerging technologies, deal with abstractions, develop analytical skills, synthesize ideas, evaluate current actions against historical perspectives, develop discriminating aesthetic judgments and give form to their imaginations.

International Study / 80

International student exchange, study abroad, academic internships, and student teaching programs make up the array of international academic programs available to Northwest students. Whether a faculty-led short term program, a summer program, a semester or academic year-long program, students have the opportunity to earn Northwest credit abroad, while gaining exposure to a new educational system and culture. Usually taken in the sophomore or junior year, students broaden their horizons by traveling to an international location to study with local students to experience global living and learning.

Bilateral, direct, and consortium agreements are in place and continue to be updated to satisfy the need of students.

Fine and Performing Arts Department

Chairperson: Joe Kreizinger

Faculty: Katheryn Bilbo, Karen Britt, Debra Brown, Rebecca Dunnell, Paul Hindemith, Patrick Immel, Miranda Myles Jackson, Stephanie Jorandby, Thomas LaPann, Feixue Mei, Armin Mühsam, Anthony Olson, Caleb Pickering, William Richardson, Sarah Sipling, Kathryn Strickland, Joseph Tomasso, Rachel Velarde, Veronica Watkins, Adam Zrust

Statement of Mission

The Northwest Missouri State University Department of Fine and Performing Arts provides an engaging and immersive environment for the preparation of professional artists, educators, scholars, and entrepreneurs who become leaders in art, music and theatre for a dynamic and diverse world culture. As an essential member of the College of Arts & Sciences, the Department of Fine and Performing Arts is at the core of the institution, providing hands-on, closely-mentored, profession-based experiences in a collaborative community of excellence.

Degree Programs

The Department of Fine and Performing Arts offers twelve majors, six minors, and one area of endorsement.

Preamble

The Department of Fine and Performing Arts is comprised of the disciplines of Art, Music and Theatre. While these disciplines share many common objectives and values, the programs of study require different policies for study in the various majors. For that reason the policies, descriptions, requirements, and offerings are presented by discipline so that all materials related to Art are together, followed by all materials related to Music, followed by all materials related to Theatre.

Art / 13

Statement of Purpose for Art

The five degree programs of the Discipline of Art and Design provide students with the skills needed to accomplish the tasks of their professions and to awaken them to that intellectual level of existence which will cause them to lead fuller, more rewarding lives regardless of the professional area they enter.

Study in these programs offers students the opportunity to learn to communicate ideas effectively, to develop analytical skills, to synthesize ideas, to evaluate implications of present actions against historical perspective, and to develop discriminating aesthetic judgments.

The Discipline of Art has among its quality objectives: (a) to provide an environment conducive to learning and creative production, (b) to develop an understanding and sensitivity to the visual arts of the past and present, (c) to prepare students for careers in the visual arts and design including the teaching of art and design, (d) to furnish the students with sufficient mastery of technical skills to allow for future independent development and creative production, and (e) to prepare students for advanced study in the visual arts.

In addition to the academic programs, the Exhibitions Program and Visiting Artists Series assist in broadening the learning experiences of all students. The exhibitions are shown in the Gallery of the Olive DeLuce Fine Arts Building and are drawn from national as well as regional sources. The Visiting Artists Series brings outstanding artists and art historians to the department where they conduct workshops, give demonstrations, hold discussions, and give slide presentations and lectures that are open to all persons in the University and regional community.

Degree Programs in Art

The Bachelor of Fine Arts with a Comprehensive Major in Art is a program emphasizing professional preparation within the studio areas. This major allows students to take over half of their total degree requirements in art and to experience various studio areas in addition to their specializations.

Specializations are to be selected from ceramics, drawing, painting, photography, printmaking, sculpture, or fibers and involve advanced study in both a class format and individualized work.

The Bachelor of Fine Arts in Graphic Design provides introductory and advanced study in graphic design, drawing, painting, digital media, photography, and the opportunity to select from these areas for additional advanced work. The student may take electives outside the art program in such fields as marketing and mass media.

The Bachelor of Science in Education, Elementary/Secondary Program with a Comprehensive Major in Art Education is designed to prepare students to teach art at all levels, kindergarten through grade twelve, and to supervise art in the elementary school. For this degree, students are allowed to take almost one-half of their total degree requirements in art and to have a broad experience within the studio areas. This major program exceeds the minimum Missouri teacher certification standards in art and certifies grades K-12.

The Bachelor of Arts with a Comprehensive Major in Art is a program that is distinctive for its flexibility and combines the major requirements, which constitute almost one-half of the total degree requirements, with a rich and varied selection of general studies.

The Bachelor of Science with a Comprehensive Major in Digital Media and a concentration in Visual Imaging (VI) is a program that will allow students to possess cross-disciplinary knowledge and skills in areas that deal with visual aesthetic understanding and communication, integrated with technological knowledge. Students in the Visual Imaging concentration of the major will understand the fundamental concepts of design, comprehend how visual compositions convey content and meaning, and create computer-generated images and animations for digital output.

The Minor in Art (24 hours) provides students majoring in any other department with opportunities to pursue studio and/or art history courses.

Department Policies for Art

Students should acquire a copy of the Art Student Handbook or Digital Media Student Handbook for a complete list of department policies and other important information.

All work produced in fulfillment of course requirements is considered the property of the Department of Fine and Performing Arts for exhibition purposes until the student's graduation or withdrawal from the University.

Attendance at programs in the Visiting Artists Series is required of all students pursuing one of the majors in the art discipline.

Advanced Placement (AP), Dual Enrollment Transfer Credit and Credit by Examination

The Department of Fine and Performing Arts does not accept International Baccalaureate or Dual Enrollment credit for any of its Art degree programs, majors or minors. Credit by examination through the department is not available for any course in Art. The department accepts only Drawing as an option for Advanced Placement credit (minimum score of 3).

Advanced Standing Requirement: Art Majors

Purpose: Advanced Standing is an assessment process through which students majoring in art (including transfer students) may be approved by faculty to pursue upper level (300 and above) courses. The assessment includes assigned readings, preparation of brief written papers, a portfolio review, and a verbal critique with faculty. See specific requirements below.

1. Expectations: To pass Advanced Standing, students will demonstrate certain proficiencies typically gained from art classes. (A) Understand the use of elements and principles of design for use in formal critique and for use in improving their own artwork. (B) Understand the conceptual purposes behind the work in core art classes. (C) Commitment to expanding knowledge for advanced study in art.

2. Timeframe: Advanced Standing Reviews will be held in the first two months of the fall and spring semesters of each school year. Students beginning the second semester of their sophomore year and/or beginning their last art core courses must apply for Art Advanced Standing. Transfer art majors seeking to enroll in advanced art courses must meet the same requirements as students who started their careers at Northwest.

3. Requirements: (A) Grade of at least a C in ART 13120 Drawing, ART 13191 2D Design, and ART 13192 3-D Design. Must have completed ART 13161 Ceramics or ART 13150 Jewelry and Metalsmithing. Must have a grade point of at least 2.00 in the overall art core classes, with no more than 6-9 hours left to complete in the art core. (B) Must have completed or at least be enrolled in the last required Northwest Core course listed for Advanced Standing with a grade point of at least 2.00. (C) Demonstrate readiness for advanced art courses by satisfactorily responding to written and verbal questions as informed by the knowledge gained from coursework and the current art reading list. (D) B.F.A. Studio majors must have completed ART 13109 Survey of Art I and ART 13111 Survey of Art II. (E) Must present an exhibit of work from various art courses that demonstrates to the art faculty the student's readiness to pursue advanced art courses. (F) Must have attended no fewer than 70% of visiting artist lectures. (G) No art major may be enrolled in and pursue advanced art courses (numbered 300 and above) with the exception of ART 13321 Advanced Drawing, ART 13333 Printmaking, ART 13395 Design with Fibers, and ART 13302 Wheel Throwing until Advanced Standing has been granted. Art minors must complete the appropriate art core sequence prior to being enrolled in and pursuing advanced art courses.

Advanced Standing Requirement: Digital Media Majors

No digital media major (including transfer students) with a visual imaging concentration (VI) may be enrolled in and pursue advanced program courses (numbered 300 and above, with the exception of ART 13321 Advanced Drawing, ART 13333 Printmaking, and ART 13395 Design with Fibers) until Digital Media Advanced Standing has been granted.

Students seeking a major in digital media with a visual imaging concentration are expected to demonstrate a capacity to integrate from the Digital Media-Visual Imaging Advanced Standing Core courses: principles of an acquired formal language, processes of seeing, and perception of content. Through visual, written, and verbal evidence: students must show understandings of conceptual purposes behind directed work in the Digital Media-Visual Imaging core courses and sufficient commitment to expand knowledge in order to successfully pursue advanced study.

To achieve Advanced Standing a student (1) must have no grade lower than a C in the Digital Media-Visual Imaging Advanced Standing Core courses; (2) must have completed The Northwest Core required classes listed for Digital Media-Visual Imaging Advanced Standing with a GPA of at least 2.00; and (3) must have attended no fewer than 70% of visiting artist lectures.

Students who have completed the requirements outlined above must apply for Digital Media-Visual Imaging Advanced Standing. Transfer Digital Media majors seeking to enroll in the advanced program courses must meet the same requirements as students who started their career at Northwest. A student who is not granted Digital Media-Visual Imaging Advanced Standing may appeal the decision through a written petition to the Dean of the College of Arts and Sciences.

Senior Comprehensive Review

A senior comprehensive review must be successfully completed by all art majors and before a senior exhibit may be installed. Senior review requires an attendance of 70% or more of visiting artist lectures after the date advanced standing has been granted.

Senior Exhibition

All art majors (Art Studio, Graphic Design, Art Education) are required to present an exhibition of their work that is acceptable to the art faculty. Candidates for the B.F.A. degree can satisfy this requirement only through the completion of ART 13403 Senior Exhibition. Senior exhibitions are held during the fall and spring semesters only.

The B.S.Ed. Senior Exhibition should display the talents of the student in various media. The exhibition should demonstrate that the student is skilled in many different methods and media as used in his or her classes at Northwest. A theme for the exhibition, while desirable, is not necessary for the B.S.Ed. student. All other criteria listed in the requirements for the senior exhibition apply for the B.S.Ed. student.

Advanced Standing Core—Digital Media-Visual Imaging:

Requirements

Courses (21 hours)

| | | |
|-----------|------------------------------------|---|
| ART 13120 | Drawing✓ | 3 |
| ART 13191 | 2D Design | 3 |
| ART 13207 | Digital Photography | 3 |
| ART 13221 | Life Drawing | 3 |
| ART 13240 | Painting | 3 |
| ART 13292 | Introduction to Digital Art Studio | 3 |
| ART 13294 | Typography | 3 |

Art Comprehensive Major, 72 hours: B.F.A. Studio—No Minor Required

CIP: 500702

Requirements

The Northwest Core (44-47 hours)

Courses to be completed before advanced standing:

| | | |
|------------|--|---|
| ENGL 10111 | Composition I: Academic Literacies | 3 |
| ENGL 10112 | Composition II: Writing as Engagement✓ | 3 |
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| HUM 26102 | Western Civilization I: The Ancient World to 1500✓ | 3 |

Institutional Requirements (4 hours)

Course to be completed before advanced standing:

| | | |
|------------|--------------------|---|
| INCO 77101 | University Seminar | 1 |
|------------|--------------------|---|

Recommended:

| | | |
|------------|--------------------------------------|---|
| CSIS 44130 | Computers and Information Technology | 3 |
|------------|--------------------------------------|---|

Required Courses

Core Requirements (30 hours)

| | | |
|-----------|---------------------------------|---|
| ART 13120 | Drawing✓ | 3 |
| ART 13150 | Jewelry and Metalsmithing OR | 3 |
| ART 13161 | Ceramics | 3 |
| ART 13191 | 2D Design | 3 |
| ART 13192 | Three-Dimensional Design | 3 |
| ART 13201 | Creative Photography | 3 |
| ART 13221 | Life Drawing | 3 |
| ART 13240 | Painting | 3 |
| ART 13270 | Sculpture | 3 |
| ART 13280 | Visual Art Concepts | 3 |

| | | |
|-----------|-------------|---|
| ART 13333 | Printmaking | 3 |
|-----------|-------------|---|

Additional Required Courses (5 hours)

| | | |
|-----------|-------------------|---|
| ART 13321 | Advanced Drawing | 3 |
| ART 13402 | Senior Seminar | 1 |
| ART 13403 | Senior Exhibition | 1 |

Studio Specialization Requirements (22 hours)

A minimum of 12 hours in one studio area at or above the 300-level

At least 10 hours in supporting electives of 300-level or above

Studio areas include ceramics, drawing, painting, photography, printmaking, fibers, or sculpture.

Art History Requirements (15 hours)

| | | |
|-----------|---|---|
| ART 13109 | Survey of Art I: Prehistory through Medieval Art✓ | 3 |
| ART 13111 | Survey of Art II: Renaissance to the Present✓ | 3 |

plus three of the following courses

| | | |
|-----------|--|---|
| ART 13311 | Ancient and Medieval Art | 3 |
| ART 13313 | Renaissance through Early Modern Art | 3 |
| ART 13315 | Nineteenth and Early Twentieth Century Art | 3 |
| ART 13316 | International Studies in Art History | 3 |
| ART 13317 | Modern and Contemporary Art | 3 |
| ART 13318 | Asian Art | 3 |
| ART 13322 | Art of the Islamic World | 3 |

Free electives as needed to reach minimum 120 graduation hours**Art Comprehensive Major, 71 hours: B.F.A. Graphic Design-No Minor Required**

CIP: 500409

(pending final approval)

Requirements**The Northwest Core (44-47 hours)****Courses to be completed before advanced standing:**

| | | |
|------------|--|---|
| ENGL 10111 | Composition I: Academic Literacies | 3 |
| ENGL 10112 | Composition II: Writing as Engagement✓ | 3 |
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| HUM 26102 | Western Civilization I: The Ancient World to 1500✓ | 3 |

Must include the following:

| | | |
|-----------|---|---|
| ART 13111 | Survey of Art II: Renaissance to the Present✓ | 3 |
|-----------|---|---|

Institutional Requirements (4 hours)**Course to be completed before advanced standing:**

| | | |
|------------|--------------------|---|
| INCO 77101 | University Seminar | 1 |
|------------|--------------------|---|

Recommended:

| | | |
|------------|--------------------------------------|---|
| CSIS 44130 | Computers and Information Technology | 3 |
|------------|--------------------------------------|---|

Required Courses**Core Requirements (33 hours)**

| | | |
|-----------|---------------------------------|---|
| ART 13120 | Drawing✓ | 3 |
| ART 13150 | Jewelry and Metalsmithing OR | 3 |
| ART 13161 | Ceramics | 3 |

| | | |
|-----------|------------------------------------|---|
| ART 13191 | 2D Design | 3 |
| ART 13192 | Three-Dimensional Design | 3 |
| ART 13207 | Digital Photography OR | 3 |
| ART 13201 | Creative Photography | 3 |
| ART 13221 | Life Drawing | 3 |
| ART 13240 | Painting | 3 |
| ART 13270 | Sculpture | 3 |
| ART 13292 | Introduction to Digital Art Studio | 3 |
| ART 13294 | Typography | 3 |
| ART 13333 | Printmaking | 3 |

Graphic Design Requirements (32 hours)

| | | |
|-----------|--------------------------------|--------|
| ART 13388 | Interface Design | 3 |
| ART 13390 | Sequential Art | 3 |
| ART 13394 | Advanced Digital Art Studio | 3 |
| ART 13396 | Brand Identity Design | 3 |
| ART 13488 | Package Design | 3 |
| ART 13492 | Advertising Design OR | 3 |
| ART 13425 | Knacktive | 3 |
| ART 13497 | Motion Graphics | 3 |
| ART 13498 | Illustration | 3 |
| ART 13592 | Internship | 2 to 6 |
| ART 13401 | Graphic Design Senior Capstone | 1 |
| ART 13403 | Senior Exhibition | 1 |
| | Electives in Graphic Design | 3 |

Art History Requirements (6 hours)

| | | |
|-----------|-----------------------------|---|
| ART 13312 | Graphic Design History | 3 |
| ART 13317 | Modern and Contemporary Art | 3 |

Free electives as needed to reach minimum 120 graduation hours

Art Education Comprehensive Major, 57 hours: B.S.Ed.— No Minor Required

CIP: 131302

Requirements

The Northwest Core (44-47 hours)

Courses to be taken before advanced standing:

| | | |
|------------|--|---|
| ENGL 10111 | Composition I: Academic Literacies | 3 |
| ENGL 10112 | Composition II: Writing as Engagement✓ | 3 |
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| HUM 26102 | Western Civilization I: The Ancient World to 1500✓ | 3 |

Must include the following:

| | | |
|------------|---|---|
| PSYC 08299 | Educational Psychology | 3 |
| ART 13109 | Survey of Art I: Prehistory through Medieval Art✓ | 3 |

Institutional Requirements (4 hours)

Course to be taken before advanced standing:

| | | |
|------------|--------------------|---|
| INCO 77101 | University Seminar | 1 |
|------------|--------------------|---|

Recommended:

| | | |
|------------|--------------------------------------|---|
| CSIS 44130 | Computers and Information Technology | 3 |
|------------|--------------------------------------|---|

Required Courses

Core Requirements (27 hours)

| | | |
|-----------|------------------------------------|---|
| ART 13120 | Drawing✓ | 3 |
| ART 13161 | Ceramics | 3 |
| ART 13191 | 2D Design | 3 |
| ART 13192 | Three-Dimensional Design | 3 |
| ART 13221 | Life Drawing | 3 |
| ART 13240 | Painting | 3 |
| ART 13270 | Sculpture | 3 |
| ART 13292 | Introduction to Digital Art Studio | 3 |
| ART 13333 | Printmaking | 3 |

Art Education Required Courses (15 hours)

| | | |
|-----------|---------------------------------|---|
| ART 13180 | Principles of Art Education | 3 |
| ART 13280 | Visual Art Concepts | 3 |
| ART 13382 | Methods in Elementary Art | 3 |
| ART 13395 | Design With Fibers | 3 |
| ART 13402 | Senior Seminar | 1 |
| ART 13480 | Methods in Secondary School Art | 2 |

Studio Electives (9 hours)

A minimum of 9 hours in studio areas 9
Studio areas include ceramics, drawing, painting, photography, printmaking, and sculpture.

Art History Requirements (6 hours)

| | | |
|-----------|---|---|
| ART 13111 | Survey of Art II: Renaissance to the Present✓ | 3 |
| | AND | |
| ART 13311 | Ancient and Medieval Art | 3 |
| | OR | |
| ART 13313 | Renaissance through Early Modern Art | 3 |
| | OR | |
| ART 13315 | Nineteenth and Early Twentieth Century Art | 3 |
| | OR | |
| ART 13316 | International Studies in Art History | 3 |
| | OR | |
| ART 13317 | Modern and Contemporary Art | 3 |
| | OR | |
| ART 13318 | Asian Art | 3 |
| | OR | |
| ART 13322 | Art of the Islamic World | 3 |

Professional Education Requirements

See Elementary-Secondary Program Requirements (p. 311)

Students must take ART 13382 Methods in Elementary Art and ART 13480 Methods in Secondary School Art as part of their professional education requirements.

Free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Elementary/Secondary Program, will meet Missouri teacher certification standards for Art grades K-12.

Art Comprehensive Major, 54 hours: B.A.—No Minor Required

CIP: 500702

Requirements**The Northwest Core (44-47 hours)****Courses to be completed before advanced standing:**

| | | |
|------------|--|---|
| ENGL 10111 | Composition I: Academic Literacies | 3 |
| ENGL 10112 | Composition II: Writing as Engagement✓ | 3 |

| | | |
|-----------|--|---|
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| HUM 26102 | Western Civilization I: The Ancient World to 1500✓ | 3 |

Institutional Requirements (4 hours)**Course to be completed before advanced standing:**

| | | |
|------------|--------------------|---|
| INCO 77101 | University Seminar | 1 |
|------------|--------------------|---|

Recommended:

| | | |
|------------|--------------------------------------|---|
| CSIS 44130 | Computers and Information Technology | 3 |
|------------|--------------------------------------|---|

B.A. Modern Language Requirement (9 hours)

| | |
|-----------------|---|
| Modern Language | 9 |
|-----------------|---|

All 9 hours must be in the same language.

Required Courses**Core Requirements (27 hours)**

| | | |
|-----------|---------------------------|---|
| ART 13120 | Drawing✓ | 3 |
| ART 13150 | Jewelry and Metalsmithing | 3 |
| ART 13161 | Ceramics | 3 |
| ART 13191 | 2D Design | 3 |
| ART 13192 | Three-Dimensional Design | 3 |
| ART 13221 | Life Drawing | 3 |
| ART 13240 | Painting | 3 |
| ART 13270 | Sculpture | 3 |
| ART 13280 | Visual Art Concepts | 3 |
| ART 13333 | Printmaking | 3 |

Additional Required Course (1 hour)

| | | |
|-----------|----------------|---|
| ART 13402 | Senior Seminar | 1 |
|-----------|----------------|---|

Advanced Studio Electives (11 hours)

| | |
|---|----|
| A minimum of 11 hours in various (or one) studio area | 11 |
|---|----|

Studio areas include ceramics, drawing, painting, photography, printmaking, fibers, or sculpture.

Art History (6 hours)

| | | |
|-----------|---|---|
| ART 13109 | Survey of Art I: Prehistory through Medieval Art✓ | 3 |
| ART 13111 | Survey of Art II: Renaissance to the Present✓ | 3 |

plus three of the following courses (9 hours)

| | | |
|-----------|--|---|
| ART 13311 | Ancient and Medieval Art | 3 |
| ART 13313 | Renaissance through Early Modern Art | 3 |
| ART 13315 | Nineteenth and Early Twentieth Century Art | 3 |
| ART 13316 | International Studies in Art History | 3 |
| ART 13317 | Modern and Contemporary Art | 3 |
| ART 13318 | Asian Art | 3 |
| ART 13322 | Art of the Islamic World | 3 |

Free electives as needed to reach minimum 120 graduation hours**Digital Media Comprehensive Major, 61 hours: B.S.—No Minor Required**

CIP: 110801

(pending final approval)

Visual Imaging Concentration

This is an interdisciplinary major in conjunction with the Department of Fine and Performing Arts, the School of Computer Science and Information Systems, and the School of Communication and Mass Media. Three concentrations are available for this major: Computer

Science Programming (Computer Science and Information Systems), Content Strategy (Communication and Mass Media), and Visual Imaging (Fine and Performing Arts).

The Northwest Core (44-47 hours)

Courses to be completed before advanced standing:

| | | |
|------------|--|---|
| ENGL 10111 | Composition I: Academic Literacies | 3 |
| ENGL 10112 | Composition II: Writing as Engagement✓ | 3 |
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |

Institutional Requirements (4 hours)

Course to be completed before advanced standing:

| | | |
|------------|--------------------|---|
| INCO 77101 | University Seminar | 1 |
|------------|--------------------|---|

Recommended:

| | | |
|------------|--------------------------------------|---|
| CSIS 44130 | Computers and Information Technology | 3 |
|------------|--------------------------------------|---|

Required Core Courses (27 hours)

| | | |
|------------|------------------------------------|---|
| ART 13191 | 2D Design | 3 |
| ART 13292 | Introduction to Digital Art Studio | 3 |
| ART 13294 | Typography | 3 |
| MMED 20120 | Introduction to Mass Media | 3 |
| MMED 20243 | Media Design | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| CSIS 44144 | Web Development I | 3 |
| CSIS 44334 | Web Development II | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Visual Imaging Concentration Required Courses (28 hours)

| | | |
|-----------|--------------------------------|--------|
| ART 13120 | Drawing✓ | 3 |
| ART 13207 | Digital Photography | 3 |
| ART 13221 | Life Drawing | 3 |
| ART 13240 | Painting | 3 |
| ART 13388 | Interface Design | 3 |
| ART 13394 | Advanced Digital Art Studio | 3 |
| ART 13396 | Brand Identity Design | 3 |
| ART 13401 | Graphic Design Senior Capstone | 1 |
| ART 13497 | Motion Graphics | 3 |
| ART 13592 | Internship | 2 to 6 |

ART 13394, ART 13396, ART 13497, ART 13592: Must have completed all Advanced Standing Requirements prior to enrolling in advanced courses (300-level and above).

Advisor-Approved Electives (6 hours)

| | |
|----------------------------|---|
| Advisor-approved electives | 6 |
|----------------------------|---|

Free electives as needed to reach minimum 120 graduation hours

Concentration in Computer Science Programming

see the School of Computer Science and Information Systems (p. 290)

Concentration in Content Strategy

see the School of Communication and Mass Media (p. 275)

Art Minor, 24 hours

CIP: 500701

Requirements

Required Courses (12 hours)

| | | |
|-----------|-----------|---|
| ART 13120 | Drawing✓ | 3 |
| ART 13191 | 2D Design | 3 |

| | | |
|-----------|---|--------|
| ART 13192 | OR Three-Dimensional Design | 3 |
| ART 13109 | Survey of Art I: Prehistory through Medieval Art✓ OR | 3 |
| ART 13111 | Survey of Art II: Renaissance to the Present✓ Art History: choice of courses (300-level) | 3 3 |

Elective Courses (12 hours)

| | |
|---|----|
| Art History or Studio choices by advisement | 12 |
|---|----|

Digital Media Minor, 24 hours**CIP: 110801**

This is an interdisciplinary minor in conjunction with the Department of Fine and Performing Arts, the School of Computer Science and Information Systems, and the School of Communication and Mass Media. This minor requires CSIS 44130 Computers and Information Technology as a prerequisite course as required by course descriptions.

Requirements**Required Courses (18 hours)**

| | | |
|------------|------------------------------------|---|
| ART 13191 | 2D Design | 3 |
| ART 13292 | Introduction to Digital Art Studio | 3 |
| MMED 20243 | Media Design | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| CSIS 44144 | Web Development I | 3 |
| CSIS 44334 | Web Development II | 3 |

Elective Courses (6 hours)**Choose two of the following:**

| | | |
|------------|------------------------|---|
| ART 13120 | Drawing✓ | 3 |
| ART 13207 | Digital Photography | 3 |
| MMED 20334 | UX and Analytics | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44335 | Script Programming | 3 |

Music / 19**Accreditation of Music Degrees**

Since 1969, Northwest Missouri State University has been a member of the National Association of Schools of Music. Both the B.M.E. and the B.A. degree are accredited by NASM. This accreditation insures that our programs are of the highest quality and that the curriculum conforms to national standards of excellence.

Statement of Purpose for Music

The Discipline of Music serves the University in three basic areas: general music education foundation for all students, individual professional preparation for selected fields and cultural enrichment for both campus and community.

Study in these programs provides majors with the skills needed to become highly successful in their chosen professions. The Discipline of Music is especially committed to excellence in public school music; in addition to an inclusive major in music, comprehensive programs are also available in vocal music education and instrumental music education. These programs provide instruction in private study, music theory/literature and methodology applicable to teaching at the elementary and secondary levels.

Recognizing its obligation to enhance the quality of life for the citizens of the four-state area, the Department of Fine and Performing Arts assists music supervisors in keeping current in

their fields of expertise, offering courses for advanced study and special topics seminars that help them advance the cause of public school music in their communities.

Objectives

The music curriculum has been designed to assist all participating students in maximizing potential. Toward this end, the primary objectives of the undergraduate programs are (1) to further performance ability in at least one musical medium, (2) to provide future teachers with the knowledge and skills necessary to become successful as professional educators in instrumental and/or vocal music, and (3) to provide students with a wide range of educational/musical experiences which will encourage continued personal and professional growth.

Degree Programs in Music

The Bachelor of Arts with a Comprehensive Major in Music (44 hours) is designed to provide the student with a broad liberal arts education, as well as more specialized work in an applied area of voice, keyboard or a particular instrument.

The Bachelor of Music in Education, Elementary/Secondary Program, with a comprehensive major in either Instrumental Music Education (64 hours) or Vocal Music Education (62 hours), prepares students to teach instrumental or vocal music at all levels, K-12. These major programs exceed the minimum Missouri teacher certification standards in instrumental music K-12 or in vocal music K-12.

A 27-hour Minor in Music is available to students with a major in another academic discipline.

Test-Out Policy for Music

Credit by examination through the department is available for the following courses only: MUS 19171 (Beginning Sight Singing and Ear-Training), MUS 19172 (Intermediate Sight Singing and Ear-Training), MUS 19173 (Theory of Music), MUS 19174 (Theory of Music), MUS 19271 (Advanced Sight Singing and Ear-Training I), and MUS 19272 (Advanced Sight Singing and Ear-Training II).

For policies and procedures see the “Departmental Test-Out” (p. 61) section of this catalog. Advanced Placement (AP) credit is available for MUS 19173 (Theory of Music) and MUS 19201 (Enjoyment of Music) with a score of “4” on the appropriate test.

Upper-Level Standing in Applied Study for Music

The Upper-Level Qualifying Examination in applied study may be attempted after a minimum of four semester hours of study (not including dual credit) in the lower level (courses numbered below 300) of applied instruction. If approved for upper-level standing by the appropriate faculty committee, the student must then enroll in upper-level applied study. Transfer students wishing to enroll in private study at the upper level must meet the same requirements as students who began studies at Northwest. Transfer students will be tested for upper-level standing during the first week of their initial semester.

Departmental Policies for Music

Applied Jury Exam: All students enrolled in applied music are required to participate in the applied jury exam each semester of applied study except for the semester in which their senior recital is actually presented. These examinations are administered by the music faculty on specific dates during the week of final examinations.

Concert/Recital Attendance: All music majors and minors are required to attend concerts and recitals as specified by the music faculty at the beginning of each fall and spring semester. Non-music majors and minors may be required to attend concerts and/or recitals as directed by course instructors.

Ensemble Participation: Majors in the B.M.E. program are required to satisfactorily participate in Marching Band, Symphonic Band, Wind Symphony, University Chorale or Orchestra according to their major applied area (and/or area of added endorsement) each fall and spring semester of full-time enrollment, except for the semester of student teaching. Majors in the B.A. degree and minors are required to satisfactorily participate in either Marching Band, Symphonic Band, Wind Symphony, University Chorale, or Orchestra according to their major applied area each fall or spring semester of full-time enrollment.

Students may enroll in ensemble courses for activity OR academic credit in order to fulfill this requirement. NOTE: Courses taken for activity credit do not count toward GPA.

Performance Audition: For all levels of applied study, students must have the permission of the instructor and/or faculty within the area of study. Any student who has not been heard by the faculty at scholarship auditions must perform an audition for faculty members before the drop/add period closes in the fall to determine acceptance to applied study. Students unable to demonstrate sufficient performance skills will be admitted on a trial basis.

Entrance Examination for Music Theory: All students who intend to begin the theory sequence at Northwest must successfully pass the entrance examination prior to enrolling in theory courses. The purpose of the examination is to ensure that each student possesses a significant level of competence in music before entering the theory sequence. Students who do not pass the examination must enroll in MUS 19103, Foundations of Music Theory.

Placement Examination in Theory and Ear-Training for Transfer Students: All students who desire to transfer theory and/or ear-training credit from another institution must take a Placement Examination in Music Theory and Ear-Training at the appropriate level. The purpose of this examination is to ensure proper placement in the theory/ear-training sequence and equate previous theory/ear-training courses to those offered at Northwest. Students may be required to retake or audit appropriate Northwest music theory/ear-training courses to remedy any deficiencies.

Entrance Examination In Keyboard: All students who intend to study keyboard at Northwest must take a placement exam prior to enrolling in any level of applied piano class, applied piano, applied organ or applied harpsichord. The purpose of the examination is to assess the ability level of each student and to appropriately place that student.

Courses at 500-level: Unless excused by the department chairperson, students must have senior standing before being permitted to enroll in 500-level music courses.

Keyboard Proficiency: Majors in the B.M.E. degree are required to pass a piano proficiency examination to the satisfaction of the piano faculty. Piano majors are exempt from this policy. The examination must be taken no later than the end of the student's third semester of piano study. Transfer students with three semesters of piano study are required to take the examination during their first semester of enrollment at Northwest. The examination is administered only during the fall and spring semesters of each academic year for students enrolled in keyboard study. Fulfillment of this requirement is a prerequisite to enrollment in MUS 19482 (Methods in Secondary School Instrumental Music), MUS 19484 (Methods in Secondary School Vocal Music), and EDUC 61470 (Directed Teaching in Elementary and Secondary School).

In order to pass the piano proficiency examination at Northwest, students must be able to: (1) perform one prepared piece of comparable difficulty to a movement from a Clementi Sonatina, (2) sight read one composition of intermediate difficulty, (3) supply an accompaniment to a given melody with marked chording, and (4) supply an accompaniment to a given melody without marked chording. Special note: A requirement for taking the keyboard proficiency exam is enrollment in keyboard study for credit (and have a passing grade in the course) or successfully auditing of class piano (i.e. have a minimum of 65% attendance).

Senior Recital: All majors, regardless of degree, are required to present a senior recital to the satisfaction of the music faculty. Such a recital will be presented only upon the approval of the student's senior recital hearing committee. The student must be enrolled in MUS 19499 (Senior Recital) and in applied music with the student's major instructor during the semester of the

recital. The senior recital may not be attempted sooner than the third semester of the upper level of applied study.

Students must adhere to departmental standards/policies concerning scheduling, format, additional performers and printed materials relative to the Senior Recital. These standards/policies are specified in the music student handbook, which may be obtained in the office of the Department of Fine and Performing Arts and online at <http://www.nwmissouri.edu/finearts/pdf/music/Music%20Student%20Handbook.pdf>.

Sight Singing/Ear-Training Proficiency: All majors are required to pass a sight singing/ear-training proficiency examination to the satisfaction of the music theory faculty. This examination must be taken by the end of the student's fourth semester of ear-training. The examination is given to all transfer students who have completed at least four semesters of ear-training study at another institution. Students who do not pass this examination must successfully audit (i.e. minimum of 65% attendance) either MUS 19271 (Advanced Sight Singing and Ear-Training I) or MUS 19272 (Advanced Sight Singing and Ear-Training II) before attempting to pass the proficiency examination again. The examinations are administered only during the fall and spring semesters of each academic year for students enrolled in MUS 19271 or MUS 19272. This requirement is a prerequisite to enrollment in EDUC 61470 (Directed Teaching in Elementary and Secondary School).

Student Recital: Each music major, regardless of degree program, is required to perform in his/her major applied area in a student recital each semester of applied study, with the exception of the initial semester of such applied study. Other students enrolled in applied music may also be required by the applied instructor to perform in a student recital.

Music Core Requirements

The Department of Fine and Performing Arts has formulated a curriculum that facilitates development of a student's musicianship in a comprehensive fashion with course offerings in applied music, music literature, and music theory.

Requirements

Core Requirements for Majors in Music

| | | |
|-----------|---|---|
| MUS 19171 | Beginning Sight Singing and Ear Training | 1 |
| MUS 19172 | Intermediate Sight Singing and Ear Training | 1 |
| MUS 19173 | Theory of Music | 3 |
| MUS 19174 | Theory of Music | 3 |
| MUS 19271 | Advanced Sight Singing and Ear Training I | 1 |
| MUS 19272 | Advanced Sight Singing and Ear Training II | 1 |
| MUS 19273 | Theory of Music | 3 |
| MUS 19274 | Theory of Music | 3 |
| MUS 19280 | World Music✓ | 3 |
| MUS 19385 | Music Literature: Antiquity through Renaissance (BC-1600) | 3 |
| MUS 19386 | Music Literature: Baroque through Classical | 3 |
| MUS 19387 | Music Literature: Romantic through the Present✓ | 3 |
| MUS 19472 | Musical Form and Analysis OR | 2 |
| MUS 19493 | Choral Composition and Arranging OR | 2 |
| MUS 19494 | Instrumental Composition and Arranging | 2 |
| MUS 19499 | Senior Recital and Seminar | 1 |
| MUS 19299 | Music Recital Attendance | 1 |

Note: MUS 19493 is required for Vocal Music Education, MUS 19494 is required for Instrumental Music Education

Recital Attendance Requirement (MUS 19299): 7 hours (B.M.E.), 8 hours (B.A.).

MUS 19280 can be used to fill a Northwest Core requirement and the Core requirements for Music majors but can only count once toward the credit hours needed for the degree.

Applied Music

Included in the requirements for the B.M.E. degree is a minimum of **four** semester hours credit in **upper level** coursework in the major applied area.

For the **B.A.** degree, a minimum of six semester hours credit in **upper level** coursework in the major applied area is required.

Bachelor of Music Education (B.M.E.) (K-12 Certification)

The purpose of the B.M.E. degree is to provide music teacher training. Those who complete this degree are normally granted a certificate to teach in Missouri. All degrees in education are subject to state requirements which may change at any time due to action of the State Board of Education. Care should be exercised in choosing courses to assure a minimum of 40 semester hours of senior college work in courses numbered above 300. Completion of this curriculum, other University requirements, and an overall grade point average of 2.75 on a 4.00 scale qualifies a student to receive a Bachelor of Music Education degree. The Bachelor of Music Education degree is available with these majors: Instrumental Music K-12, Vocal Music K-12. Candidates must complete the following requirements:

B.M.E. Degree Requirements

The Northwest Core (44-47 hours)

Must include the following:

| | | |
|------------|-------------------------------------|---|
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| PSYC 08299 | Educational Psychology | 3 |

Directed Northwest Core Requirement: must achieve grade of C or better in each.

Institutional Requirements (4 hours)

Degree Requirement (3 hours)

| | | |
|------------|-------------------------------|---|
| EDUC 61569 | Multiculturalism in Education | 3 |
|------------|-------------------------------|---|

Major Requirements (62-64 hours)

Professional Requirements

Professional Education Phase I (3 hours)

| | | |
|------------|--|---|
| EDCI 62109 | Positive Communication in an Inclusive Classroom | 2 |
| EDCI 62119 | Professional Learning Community III | 1 |

Professional Education Phase II (11-12 hours)

| | | |
|------------|--|--------|
| EDUC 61301 | Developmental Foundations of Adolescent and Content Literacy | 2 |
| EDUC 61302 | Professional Learning Community Middle and Secondary IV | 1 |
| EDUC 61310 | Classroom and Behavior Management Strategies | 1 |
| EDUC 61311 | Designing Integrated Middle School and Secondary Curriculum | 1 |
| EDUC 61312 | Professional Learning Community for Middle School and Secondary V | 1 |
| EDUC 61324 | Intervention and Assessment: Literacy, Special Populations, and English Language | 2 |
| EDUC 61325 | Professional Learning Community VI | 1 |
| | Special Methods in Education | 2 to 3 |

See majors for specific methods courses.

Professional Education Phase III (15 hours)

| | | |
|------------|--|---------|
| EDUC 61431 | Secondary School Practicum | 1 |
| EDUC 61432 | Professional Education Capstone | 2 |
| EDUC 61470 | Directed Teaching in Elementary and Secondary School | 1 to 10 |

PSYC 08322 Adolescent Psychology 2
 Special Methods: A special methods course must be completed with each major or minor which carries 9-12 or K-12 certification. See department course listings.

Total Credit Hours: 142

**Instrumental Music Education Comprehensive Major, 64 hours:
 B.M.E.—No Minor Required (Certifies Grades K-12)**

CIP: 131312

The Department of Fine and Performing Arts has formulated a curriculum that facilitates development of a student's musicianship in a comprehensive fashion with course offerings in applied music, music literature, and music theory.

Requirements

The Northwest Core (44-47 hours)

Must include the following:

| | | |
|------------|-------------------------------------|---|
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| PSYC 08299 | Educational Psychology | 3 |

Directed Northwest Core Requirement: must achieve a grade of C or better in each.

Institutional Requirements (4 hours)

Music Core (31 hours)

| | | |
|-----------|---|---|
| MUS 19171 | Beginning Sight Singing and Ear Training | 1 |
| MUS 19172 | Intermediate Sight Singing and Ear Training | 1 |
| MUS 19173 | Theory of Music | 3 |
| MUS 19174 | Theory of Music | 3 |
| MUS 19271 | Advanced Sight Singing and Ear Training I | 1 |
| MUS 19272 | Advanced Sight Singing and Ear Training II | 1 |
| MUS 19273 | Theory of Music | 3 |
| MUS 19274 | Theory of Music | 3 |
| MUS 19280 | World Music✓ | 3 |
| MUS 19385 | Music Literature: Antiquity through Renaissance (BC-1600) | 3 |
| MUS 19386 | Music Literature: Baroque through Classical | 3 |
| MUS 19387 | Music Literature: Romantic through the Present✓ | 3 |
| MUS 19494 | Instrumental Composition and Arranging | 2 |
| MUS 19499 | Senior Recital and Seminar | 1 |
| MUS 19299 | Music Recital Attendance | 1 |

Recital Attendance Requirement: MUS 19299 must be taken for 7 semesters

Required Courses (18 hours)

| | | |
|-----------|--|---|
| MUS 19180 | Introduction to Music Education | 2 |
| MUS 19220 | Brass Methods I | 1 |
| MUS 19223 | Brass Methods II | 1 |
| MUS 19221 | Percussion Methods I | 1 |
| MUS 19224 | Percussion Methods II | 1 |
| MUS 19240 | String Methods I | 1 |
| MUS 19241 | String Methods II | 1 |
| MUS 19260 | Woodwind Methods I | 1 |
| MUS 19261 | Woodwind Methods II | 1 |
| MUS 19391 | Elements of Conducting | 2 |
| MUS 19421 | Instrumental Conducting | 2 |
| MUS 19481 | Elementary General Music Methods | 2 |
| MUS 19482 | Methods in Secondary School Instrumental Music | 2 |

Applied Music (13 hours)

| | |
|--------------------------------------|---|
| Major Instruments | 8 |
| Piano (or other keyboard instrument) | 3 |

| | |
|-----------|---|
| Electives | 2 |
|-----------|---|

For Piano as a Major Instrument:

| | |
|--------------------------------------|---|
| Piano (or other keyboard instrument) | 8 |
| Instrumental | 5 |

Vocal Methods (2 hours)

| | | |
|-----------|------------------------------------|---|
| MUS 19275 | Vocal Methods For Non-Vocal Majors | 2 |
|-----------|------------------------------------|---|

Instrumental ensembles taken for academic or activity credit selected from:

| | | |
|-----------|---------------|---|
| MUS 19110 | Marching Band | 1 |
|-----------|---------------|---|

OR

| | | |
|-----------|------------------------|---|
| MUS 19111 | Marching Band Activity | 1 |
|-----------|------------------------|---|

| | | |
|-----------|-----------------|---|
| MUS 19115 | Symphonic Band✓ | 1 |
|-----------|-----------------|---|

OR

| | | |
|-----------|-------------------------|---|
| MUS 19116 | Symphonic Band Activity | 1 |
|-----------|-------------------------|---|

| | | |
|-----------|--------------|---|
| MUS 19120 | Concert Band | 1 |
|-----------|--------------|---|

OR

| | | |
|-----------|-----------------------|---|
| MUS 19121 | Concert Band Activity | 1 |
|-----------|-----------------------|---|

| | | |
|-----------|---------------|---|
| MUS 19209 | Wind Symphony | 1 |
|-----------|---------------|---|

OR

| | | |
|-----------|------------------------|---|
| MUS 19210 | Wind Symphony Activity | 1 |
|-----------|------------------------|---|

Note: Instrumental ensembles should be taken each fall and spring semester of full-time enrollment for a total of 7 semesters minimum.

Professional Education Requirements

See Bachelor of Music Education Requirements (p. 110)

Students must take MUS 19481 Elementary General Music Methods and MUS 19482 Methods in Secondary School Instrumental Music as part of their professional education requirements.

Free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.M.E. Program, will meet Missouri teacher certification standards for Instrumental Music grades K–12.

Vocal Music Education Comprehensive Major, 62 hours: B.M.E.—No Minor Required (Certifies Grades K-12)

CIP: 131312

Requirements**The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|-----------|-------------------------------------|---|
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
|-----------|-------------------------------------|---|

| | | |
|------------|------------------------|---|
| PSYC 08299 | Educational Psychology | 3 |
|------------|------------------------|---|

Directed Northwest Core Requirement: must achieve a grade of C or better in each.

Institutional Requirements (4 hours)**Music Core (31 hours)**

| | | |
|-----------|--|---|
| MUS 19171 | Beginning Sight Singing and Ear Training | 1 |
|-----------|--|---|

| | | |
|-----------|---|---|
| MUS 19172 | Intermediate Sight Singing and Ear Training | 1 |
|-----------|---|---|

| | | |
|-----------|-----------------|---|
| MUS 19173 | Theory of Music | 3 |
|-----------|-----------------|---|

| | | |
|-----------|-----------------|---|
| MUS 19174 | Theory of Music | 3 |
|-----------|-----------------|---|

| | | |
|-----------|---|---|
| MUS 19271 | Advanced Sight Singing and Ear Training I | 1 |
|-----------|---|---|

| | | |
|-----------|--|---|
| MUS 19272 | Advanced Sight Singing and Ear Training II | 1 |
|-----------|--|---|

| | | |
|-----------|-----------------|---|
| MUS 19273 | Theory of Music | 3 |
|-----------|-----------------|---|

| | | |
|-----------|-----------------|---|
| MUS 19274 | Theory of Music | 3 |
|-----------|-----------------|---|

| | | |
|-----------|---|---|
| MUS 19280 | World Music✓ | 3 |
| MUS 19385 | Music Literature: Antiquity through Renaissance (BC-1600) | 3 |
| MUS 19386 | Music Literature: Baroque through Classical | 3 |
| MUS 19387 | Music Literature: Romantic through the Present✓ | 3 |
| MUS 19493 | Choral Composition and Arranging | 2 |
| MUS 19499 | Senior Recital and Seminar | 1 |
| MUS 19299 | Music Recital Attendance | 1 |

Recital Attendance Requirement: MUS 19299 must be taken for 7 semesters.

Required Courses (18 hours)

| | | |
|-----------|--|---|
| MUS 19180 | Introduction to Music Education | 2 |
| MUS 19250 | Vocal Methods | 2 |
| MUS 19270 | Instrumental Methods for Non-Instrumental Majors | 2 |
| MUS 19391 | Elements of Conducting | 2 |
| MUS 19420 | Choral Conducting | 2 |
| MUS 19481 | Elementary General Music Methods | 2 |
| MUS 19592 | Secondary General Music Methods | 2 |
| MUS 19593 | Choral Literature for Secondary Schools | 2 |
| MUS 19484 | Methods in Secondary School Vocal Music | 2 |

Applied Music (13 hours):

Voice Concentration

| | |
|--------------------------------------|---|
| Voice | 8 |
| Piano (or other keyboard instrument) | 4 |
| Elective | 1 |

Piano Concentration

| | |
|-------|---|
| Piano | 8 |
| Voice | 5 |

Vocal ensembles taken for either academic or activity credit:

| | | |
|-----------|-----------------------------|---|
| MUS 19112 | University Chorale✓ | 1 |
| | OR | |
| MUS 19113 | University Chorale Activity | 1 |

Note: Vocal ensembles should be taken each fall and spring semester of full-time enrollment for a total of 7 semesters minimum.

Professional Education Requirements

See Bachelor of Music Education Requirements (p. 110)

Students must take MUS 19481 Elementary General Music Methods and MUS 19484 Methods in Secondary School Vocal Music as part of their professional education requirements.

Free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.M.E. Program, will meet Missouri teacher certification standards for Vocal Music grades K–12.

Music Comprehensive Major, 44 hours: B.A.—No Minor Required

CIP: 500901

The Bachelor of Arts in Music may be taken as a stand-alone major or with an emphasis area. Emphasis areas require an additional 24 hours of coursework and include: Audio Production, Business, and Wellness.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

B.A. Modern Language Requirement (9 hours)

| | |
|-----------------|---|
| Modern Language | 9 |
|-----------------|---|

All 9 hours must be in the same language.

Music Core (18 hours)

| | | |
|-----------|---|---|
| MUS 19171 | Beginning Sight Singing and Ear Training | 1 |
| MUS 19172 | Intermediate Sight Singing and Ear Training | 1 |
| MUS 19173 | Theory of Music | 3 |
| MUS 19174 | Theory of Music | 3 |
| MUS 19271 | Advanced Sight Singing and Ear Training I | 1 |
| MUS 19273 | Theory of Music | 3 |
| MUS 19280 | World Music✓ | 3 |
| MUS 19472 | Musical Form and Analysis OR | 2 |
| MUS 19493 | Choral Composition and Arranging OR | 2 |
| MUS 19494 | Instrumental Composition and Arranging | 2 |
| MUS 19499 | Senior Recital and Seminar | 1 |
| MUS 19299 | Music Recital Attendance | 1 |

Recital Attendance Requirement: MUS 19299 must be taken for 8 semesters.

Music Literature (6 hours)

Choose two courses from the following:

| | | |
|-----------|---|---|
| MUS 19385 | Music Literature: Antiquity through Renaissance (BC-1600) | 3 |
| MUS 19386 | Music Literature: Baroque through Classical | 3 |
| MUS 19387 | Music Literature: Romantic through the Present✓ | 3 |

Required Courses (20 hours)

| | |
|--|----|
| Applied music courses as recommended by advisor | 10 |
| Approved music electives as needed to total 44 hours | |

University music ensembles taken for academic or activity credit selected from:

| | | |
|-----------|-----------------------------|---|
| MUS 19110 | Marching Band OR | 1 |
| MUS 19111 | Marching Band Activity | 1 |
| MUS 19115 | Symphonic Band✓ OR | 1 |
| MUS 19116 | Symphonic Band Activity | 1 |
| MUS 19120 | Concert Band OR | 1 |
| MUS 19121 | Concert Band Activity | 1 |
| MUS 19209 | Wind Symphony OR | 1 |
| MUS 19210 | Wind Symphony Activity | 1 |
| MUS 19112 | University Chorale✓ OR | 1 |
| MUS 19113 | University Chorale Activity | 1 |

Note: University music ensembles should be taken each fall and spring semester of full-time enrollment for a total of 8 semesters minimum.

Audio Production Emphasis (24 hours)

Students in the Audio Production emphasis area will take 15 hours of required coursework and an additional 9 hours of electives.

| | | |
|------------|--------------------------------|---|
| MMED 20224 | Introduction to Audio | 3 |
| MMED 20329 | Audio Technology and Recording | 3 |
| MMED 20370 | Live Sound Theory and Practice | 3 |
| MMED 20406 | Advanced Audio (Music) | 3 |
| MMED 20407 | Advanced Audio (Post) | 3 |

Audio Production Electives

Choose 9 hours from the following:

| | | |
|------------|---|---|
| MMED 20111 | Introduction to Broadcast Operations | 3 |
| MMED 20110 | Fundamentals of Electronic Media Production | 3 |
| MMED 20220 | Media Literacy | 3 |
| MMED 20314 | Communication Law and Ethics | 3 |

Business Emphasis (24 hours)

Students in the Business emphasis area will take 15 hours of required coursework and an additional 9 hours of electives.

| | | |
|------------|-------------------------------|---|
| ACCT 51201 | Accounting I | 3 |
| ACCT 51202 | Accounting II | 3 |
| ECON 52151 | Principles of Microeconomics✓ | 3 |
| MKTG 55330 | Principles of Marketing | 3 |
| MGMT 54313 | Principles of Management | 3 |

Business Electives

Choose 9 hours from the following:

| | | |
|------------|---------------------------|---|
| FIN 53311 | Business Law I | 3 |
| MGMT 54310 | Managerial Communication | 3 |
| MGMT 54314 | Human Resource Management | 3 |
| MGMT 54318 | Entrepreneurship | 3 |

Wellness Emphasis (24 hours)

Students in the Wellness emphasis area will take 15 hours and an additional 9 hours of electives.

| | | |
|------------|--|---|
| HPER 22114 | Wellness | 3 |
| NUTR 47234 | Nutrition and Diet Behavior | 3 |
| HPER 22254 | Anatomy and Physiology OR | 3 |
| BIOL 04236 | Anatomy Allied Health | 4 |
| HPER 22512 | Socio-Psychological Aspects of Human Performance OR | 3 |
| PSYC 08325 | Sport Psychology | 3 |
| HPER 22552 | Health Promotion OR | 3 |
| HPER 22556 | Health in the Later Years | 3 |

Wellness Electives

Choose 9 hours of electives from HPER, PSYC, REC, and SCGD.

| | |
|----------------------------|---|
| Advisor-approved electives | 9 |
|----------------------------|---|

Free electives as needed to reach minimum 120 graduation hours

SPECIAL NOTES: Care should be exercised in choosing courses to assure a minimum of 32 semester hours of work in courses numbered above 300.

The B.A. degree with a Comprehensive Major in Music provides the student with a broad liberal arts education and the opportunity to pursue specialized work in an emphasis area.

Music Minor, 27 hours**CIP: 500901****Requirements****Required Courses**

| | | |
|-----------|---|---|
| MUS 19171 | Beginning Sight Singing and Ear Training | 1 |
| MUS 19172 | Intermediate Sight Singing and Ear Training | 1 |
| MUS 19173 | Theory of Music | 3 |
| MUS 19174 | Theory of Music | 3 |
| | Literature and History of Music | 6 |
| | Applied music courses | 6 |
| MUS 19280 | World Music✓ | 3 |
| MUS 19299 | Music Recital Attendance | 1 |
| | Music electives as needed to total 27 hours | |

Note: Literature and History of Music by advisement.

MUS 19280 can be used to fill Northwest Core requirements and the Core requirements for Music minors but can only count once toward the total number of credits hours required for graduation.

Music Recital Attendance: MUS 19299 is only offered as activity credit and must be taken for a minimum of 4 semesters.

University music ensembles taken for either academic or activity credit selected from:

| | | |
|-----------|-----------------------------|---|
| MUS 19110 | Marching Band | 1 |
| | OR | |
| MUS 19111 | Marching Band Activity | 1 |
| MUS 19112 | University Chorale✓ | 1 |
| | OR | |
| MUS 19113 | University Chorale Activity | 1 |
| MUS 19115 | Symphonic Band✓ | 1 |
| | OR | |
| MUS 19116 | Symphonic Band Activity | 1 |
| MUS 19120 | Concert Band | 1 |
| | OR | |
| MUS 19121 | Concert Band Activity | 1 |
| MUS 19209 | Wind Symphony | 1 |
| | OR | |
| MUS 19210 | Wind Symphony Activity | 1 |

Note: University music ensembles should be taken for a total of 7 semesters minimum.

(See ensemble participation under department policies.)

This minor does not meet Missouri teacher certification requirements. It is recommended for students pursuing a B.A. or B.S. degree.

Vocal Music Education Extended Certification, Grades K-12, 12 hours: B.M.E. Degree

This is not a major or minor, but an extended certification that may be added to the 64-hour B.M.E. in Instrumental Music Education.

Requirements**Required Courses (12 hours)**

| | | |
|-----------|---------------|---|
| MUS 19250 | Vocal Methods | 2 |
|-----------|---------------|---|

| | | |
|-----------|---|---|
| MUS 19420 | Choral Conducting | 2 |
| MUS 19484 | Methods in Secondary School Vocal Music | 2 |
| MUS 19493 | Choral Composition and Arranging | 2 |
| MUS 19592 | Secondary General Music Methods | 2 |
| MUS 19593 | Choral Literature for Secondary Schools | 2 |

Instrumental Music Education Extended Certification, Grades K-12, 14 hours: B.M.E. Degree

This is not a major or minor, but an extended certification that may be added to the 62-hour B.M.E. in Vocal Music Education.

Requirements

Required Courses (14 hours)

| | | |
|-----------|--|---|
| MUS 19220 | Brass Methods I | 1 |
| MUS 19221 | Percussion Methods I | 1 |
| MUS 19223 | Brass Methods II | 1 |
| MUS 19224 | Percussion Methods II | 1 |
| MUS 19240 | String Methods I | 1 |
| MUS 19241 | String Methods II | 1 |
| MUS 19260 | Woodwind Methods I | 1 |
| MUS 19261 | Woodwind Methods II | 1 |
| MUS 19421 | Instrumental Conducting | 2 |
| MUS 19482 | Methods in Secondary School Instrumental Music | 2 |
| MUS 19494 | Instrumental Composition and Arranging | 2 |

Theatre / 43

Statement of Purpose for Theatre

Supporting Northwest's institution-wide vision and mission, the Discipline of Theatre has a threefold purpose: (1) to serve the educational needs of the students of Northwest by providing programs of study that integrate theory and practice in Theatre; (2) to provide quality cultural performances and experiences for the University and surrounding communities; and (3) to make a significant contribution to the advancement of knowledge in these fields. The department seeks to accomplish this by: (a) attracting students who have the potential to become competent professionals, (b) preparing students in department majors for successful employment in those fields or for advanced study in graduate programs, (c) providing all students with competency training that is essential to their success in school and in the world, and (d) maintaining a relationship with alumni and supporting their continual development as professionals and citizens.

Students in the Discipline of Theatre are provided with both a solid theoretical understanding of the field and numerous opportunities for hands-on competence. Student organizations within the department provide additional experiential learning opportunities. Whether majoring in a theatre field (Performance, Technical/Design or Comprehensive), or seeking teacher certification in one of those areas, students in the department learn from their instructors and classroom experiences, learn by doing, learn from one another, and learn from professionals in their fields.

Majors and non-majors alike are eligible and encouraged to participate in performance or technical positions in the mainstage and laboratory production theatre series, forensics activities, multicultural events, and student organizations.

The department also serves as a center for cultural activity and enrichment for the University and surrounding communities. Public performances of dramatic literature from all major periods and of all major styles are produced throughout the academic year. The high caliber of these performances instills an appreciation for the performance process and the aesthetics of production arts.

By encouraging and supporting its faculty members to continuously engage in creative and scholarly activities, the department fulfills its obligation to not only partake of the field of knowledge but also to enlarge that field. This ensures that students taking courses within the department receive the best and most current education possible. By providing opportunities and encouraging its majors to engage in additional creative activities and scholarly research outside of the classroom, the department offers students the opportunity to further enhance their educational experience and to join with the faculty in expanding their fields of knowledge.

Degree Programs in Theatre

The comprehensive Bachelor of Science in Theatre (60 hours) does not require an outside minor and provides students with a solid foundation in all major areas of theatre study while allowing concentration in a specific production activity. Specialization options, available in performance and technical/design areas, prepare the student to enter the professional field or to undertake advanced study and training.

The Bachelor of Arts in Theatre (30 hours), which requires a minor in another area, provides students with theoretical and practical knowledge in all areas of theatre study in preparation for advanced training, graduate work or entry into the field.

The comprehensive Bachelor of Science in Education in Speech/Theatre (55 hours) prepares students to teach and direct speech and theatre in secondary schools. This major does not require a minor and, when completed under the B.S.Ed., Secondary Education Program, meets the State of Missouri teacher certification standards for grades 9-12.

The non-comprehensive Bachelor of Science in Education in Speech/Theatre (38 hours) requires a minor. This major, when completed under the B.S.Ed., Secondary Education Program, meets the State of Missouri teacher certification standards for grades 9-12.

The minor in Theatre (24 hours) provides students majoring in other departments with a general knowledge of all major areas of theatre study and the opportunity to apply that knowledge in a production environment.

A minor in Speech/Theatre Education (32 hours) is available to students majoring in another area. This minor, when completed under the B.S.Ed., Secondary Education Program, meets the State of Missouri teacher certification standards for grades 9-12.

The department also offers an endorsement in Speech/Theatre for students seeking Missouri Middle School (grades 5-9) certification. The middle school program is advised through the School of Education.

Departmental Policies for Theatre

Senior Project Requirement

Students must create a significant public performance or exhibition of materials in the student's area of emphasis in theatre during the senior year. Prior to beginning the project, students must create a proposal as part of the Theatre Capstone course (THEA 43497) and receive project approval from the theatre faculty. Students may choose to enroll in THEA 43499 Senior Project if academic credit is desired.

Speech/Theatre Education Directing Requirement

All candidates for the B.S.Ed. degree with a secondary speech/theatre major must demonstrate their ability to direct a complete theatrical presentation that is approved by department faculty. Opportunities for meeting this requirement will be discussed with the academic advisor and include lab series, second stage, and external venue shows. THEA 43373 Directing must be successfully completed prior to attempting this requirement.

Advanced Standing Requirement

Students majoring in theatre must complete University Seminar (1 hour), English Composition (6 hours), Oral Communication (3 hours), and Mathematics (3-4 hours) by the end of the sophomore year. A student must present a cumulative grade point average of 2.00 for all courses listed above. No departmental major may be enrolled in and pursue advanced departmental courses (numbered 300 or above) until these courses and the specific advanced standing requirements for the student's major are met.

Students seeking exemption or who are not granted advanced standing in theatre may appeal by submitting a written petition to the Dean of the College of Arts and Sciences through the Chair of the department.

Theatre and Speech/Theatre Education Majors

Students seeking a major or minor in theatre or speech/theatre education are expected to demonstrate a capacity to integrate, from the theatre core courses: principles of a common formal language, process of seeing, and perception of content. Through visual, written and verbal evidence: students must show understanding of conceptual purposes behind directed work in the theatre core courses and sufficient commitment to expand their knowledge in order to successfully pursue advanced study.

No theatre major or speech/theatre education major may be enrolled in and pursue advanced theatre courses (Theatre courses numbered 43-300 and above) until theatre advanced standing has been granted. Minors must complete the theatre core sequence with a grade of C or better in all core courses prior to being enrolled in and pursuing advanced theatre courses.

To achieve theatre advanced standing, theatre majors and speech/theatre education majors 1) must have no grade lower than C in any theatre core course, and 2) must demonstrate his/her readiness for advanced theatre courses by satisfactorily responding to written and oral questions related to the current theatre reading list and from theatre core courses, and 3) present a professional portfolio for faculty review. Majors may apply for theatre advanced standing during the semester they are completing the theatre core.

Theatre Core Requirements

Core Requirements for Majors and Minors in Theatre

Courses (12 hours)

| | | |
|------------|--|---|
| THEA 43110 | Theatre Foundations | 3 |
| THEA 43210 | Design Principles in Theatre | 3 |
| THEA 43225 | Oral Interpretation and Textual Analysis | 3 |
| THEA 43230 | Acting | 3 |

Theatre Major, 30 hours: B.A.–Minor Required

CIP: 500501

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

B.A. Modern Language Requirement (9 hours)

| | |
|---|---|
| Modern Language | 9 |
| All 9 hours must be in the same language. | |

Required Courses (25 hours)

| | | |
|------------|----------------------------------|----|
| | Theatre Core Requirements | 12 |
| THEA 43305 | Independent Practicum in Theatre | 1 |
| THEA 43373 | Directing | 3 |
| THEA 43407 | History of Theatre I | 3 |
| THEA 43408 | History of Theatre II | 3 |
| THEA 43497 | Theatre Capstone | 3 |

Two hours of technical skills from (2 hours):

| | | |
|------------|-----------------------------|---|
| THEA 43211 | Technical Skills: Scenery | 2 |
| THEA 43212 | Technical Skills: Costumes | 2 |
| THEA 43213 | Technical Skills: Electrics | 2 |

Three hours of theatre design from (3 hours):

| | | |
|------------|----------------|---|
| THEA 43354 | Stage Lighting | 3 |
| THEA 43391 | Costuming | 3 |
| THEA 43395 | Scene Design | 3 |

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Theatre Comprehensive Major, 60 hours: B.S.—No Minor Required
CIP: 500501

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****Required Courses (33 hours)**

| | | |
|---------------------------------|----------------------------------|----|
| | Theatre Core Requirements | 12 |
| THEA 43211 | Technical Skills: Scenery | 2 |
| THEA 43212 | Technical Skills: Costumes | 2 |
| THEA 43213 | Technical Skills: Electrics | 2 |
| THEA 43305 | Independent Practicum in Theatre | 1 |
| THEA 43373 | Directing | 3 |
| THEA 43407 | History of Theatre I | 3 |
| THEA 43408 | History of Theatre II | 3 |
| THEA 43497 | Theatre Capstone | 3 |
| THEA 43305 (enroll 3 semesters) | | |

Specialization Option (27 hours)

Choose one specialization option.

Performance Specialization Option

| | | |
|------------|---|---|
| THEA 43235 | Theatre Voice and Movement | 3 |
| THEA 43258 | Stage Makeup | 3 |
| THEA 43330 | Advanced Acting | 3 |
| THEA 43335 | Acting Period Styles and Techniques | 3 |
| THEA 43426 | Interpreter's Theatre | 3 |
| | Performance-related course(s) from 19- or 22- prefix departments, approved by advisor | 3 |
| | Theatre electives, approved by advisor | 9 |

Technical Theatre and Design Option

| | | |
|------------|---|---|
| THEA 43221 | Drafting | 3 |
| THEA 43222 | Advanced Drafting | 3 |
| THEA 43354 | Stage Lighting | 3 |
| THEA 43383 | Stage and Theatre Management | 3 |
| THEA 43391 | Costuming | 3 |
| THEA 43395 | Scene Design | 3 |
| | Tech/design-related course(s) from 13- or 15- prefix departments, approved by advisor | 3 |
| | Theatre electives, approved by advisor | 6 |

Free electives as needed to reach minimum 120 graduation hours

Theatre Minor, 24 hours

CIP: 50050

Requirements

Required Courses (16 hours)

| | | |
|------------|----------------------------------|----|
| | Theatre Core Requirements | 12 |
| THEA 43305 | Independent Practicum in Theatre | 1 |
| THEA 43373 | Directing | 3 |

Two hours of technical skills from (2 hours):

| | | |
|------------|-----------------------------|---|
| THEA 43211 | Technical Skills: Scenery | 2 |
| THEA 43212 | Technical Skills: Costumes | 2 |
| THEA 43213 | Technical Skills: Electrics | 2 |

Three hours of theatre design from (3 hours):

| | | |
|------------|----------------|---|
| THEA 43354 | Stage Lighting | 3 |
| THEA 43391 | Costuming | 3 |
| THEA 43395 | Scene Design | 3 |

Three hours of theatre history from (3 hours):

| | | |
|------------|-----------------------|---|
| THEA 43407 | History of Theatre I | 3 |
| THEA 43408 | History of Theatre II | 3 |

Speech/Theatre

Speech/Theatre Core Requirements

Requirements

Core Requirements for Speech/Theatre Education Majors/Minors (18 hours)

| | | |
|------------|--|---|
| THEA 43110 | Theatre Foundations | 3 |
| THEA 43210 | Design Principles in Theatre | 3 |
| THEA 43225 | Oral Interpretation and Textual Analysis | 3 |
| THEA 43230 | Acting | 3 |
| COM 29210 | Communication Theory | 3 |
| COM 29230 | Public Speaking | 3 |

Speech/Theatre Education Comprehensive Major, 55 hours: B.S.Ed.—No Minor Required (Certifies Grades 9-12)

CIP: 131399

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (50 hours)

| | | |
|------------|---|--------|
| | Speech/Theatre Education Core Requirements | 18 |
| COM 29133 | Practicum in Debate and Forensics AND/OR | 1 to 4 |
| COM 29338 | Advanced Practicum in Debate and Forensics | 1 to 4 |
| COM 29232 | Small Group Communication✓ | 3 |
| COM 29325 | Listening Behavior and Skills | 3 |
| COM 29332 | Propaganda and Persuasion | 3 |
| COM 29335 | Interpersonal Communication✓ | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| THEA 43305 | Independent Practicum in Theatre | 1 |
| THEA 43373 | Directing | 3 |
| THEA 43460 | Creative Dramatics | 3 |
| | Eight hours of approved speech communication, theatre, or mass media electives | 8 |

Note: COM 29133 and COM 29338 should be taken for a minimum of 2 credit hours total.

Two hours of technical skills from (2 hours):

| | | |
|------------|-----------------------------|---|
| THEA 43211 | Technical Skills: Scenery | 2 |
| THEA 43212 | Technical Skills: Costumes | 2 |
| THEA 43213 | Technical Skills: Electrics | 2 |

Three hours of theatre history from (3 hours):

| | | |
|------------|-----------------------|---|
| THEA 43407 | History of Theatre I | 3 |
| THEA 43408 | History of Theatre II | 3 |

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take COM 29480 Methods in Teaching Speech/Theatre in the Secondary School as part of their professional education requirements.

Free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Speech/Theatre grades 9-12.

Speech/Theatre Education Major, 38 hours: B.S.Ed.—Minor Required (Certifies Grades 9-12)

CIP: 131399

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****Required Courses (33 hours)**

| | | |
|------------|---|--------|
| | Speech/Theatre Education Core Requirements | 18 |
| COM 29133 | Practicum in Debate and Forensics AND/OR | 1 to 4 |
| COM 29338 | Advanced Practicum in Debate and Forensics | 1 to 4 |
| COM 29332 | Propaganda and Persuasion | 3 |
| COM 29335 | Interpersonal Communication/ | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| THEA 43305 | Independent Practicum in Theatre | 1 |
| THEA 43373 | Directing | 3 |

Note: COM 29133 and COM 29338 should be taken for a minimum of 2 credit hours total.

Two hours of technical skills from (2 hours):

| | | |
|------------|-----------------------------|---|
| THEA 43211 | Technical Skills: Scenery | 2 |
| THEA 43212 | Technical Skills: Costumes | 2 |
| THEA 43213 | Technical Skills: Electrics | 2 |

Three hours of theatre history from (3 hours):

| | | |
|------------|-----------------------|---|
| THEA 43407 | History of Theatre I | 3 |
| THEA 43408 | History of Theatre II | 3 |

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take COM 29480 Methods in Teaching Speech/Theatre in the Secondary School as part of their professional education requirements.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Speech/Theatre grades 9-12.

Speech/Theatre Education Minor, 32 hours (Certifies Grades 9-12)

CIP: 131324

Requirements

Required Courses (29 hours)

| | | |
|------------|--|--------|
| | Speech/Theatre Education Core Requirements | 18 |
| COM 29133 | Practicum in Debate and Forensics | 1 to 4 |
| COM 29335 | Interpersonal Communication✓ | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| THEA 43305 | Independent Practicum in Theatre | 1 |
| THEA 43373 | Directing | 3 |

Three hours from (3 hours):

| | | |
|------------|-------------------------------|---|
| COM 29325 | Listening Behavior and Skills | 3 |
| COM 29332 | Propaganda and Persuasion | 3 |
| THEA 43407 | History of Theatre I | 3 |
| THEA 43408 | History of Theatre II | 3 |

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take COM 29480 Methods in Teaching Speech/Theatre in the Secondary School as part of their professional education requirements.

This minor, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Speech/Theatre grades 9-12.

Speech/Theatre for the Middle School Area of Endorsement, 24 hours

CIP: 131331

Requirements

Required Courses (24 hours)

| | | |
|------------|--------------------------|---|
| THEA 43110 | Theatre Foundations | 3 |
| THEA 43230 | Acting | 3 |
| THEA 43373 | Directing | 3 |
| THEA 43460 | Creative Dramatics | 3 |
| MMED 20220 | Media Literacy | 3 |
| COM 29210 | Communication Theory | 3 |
| COM 29230 | Public Speaking | 3 |
| COM 29341 | Argumentation and Debate | 3 |

Professional Education Requirements

See Middle School Education Program Requirements (p. 308)

Students must take COM 29480 Methods of Teaching Speech/Theatre in the Secondary School as part of their professional education requirements.

This endorsement, when completed under the B.S.Ed. Middle School Program, will meet Missouri certification standards for Speech/Theatre Area of Endorsement grades 5-9. Primary advisement for Middle School Certification is provided by the School of Education (p. 299). Please also seek a secondary advisor from the content area.

Humanities and Social Sciences Department

Chairperson: Dawn Gilley

Faculty: Ethan Bottone, Luke Campbell, Kimberly Casey, Brett Chloupek, Mark Corson, Richard Field, Elyssa Ford, Jessica Gracey, Bronson Herrera, Brian Hesse, Ming-Chih Hung, Chanwoo Jin, Matthew Johnson, Sarah Nagamore, Devlin Scofield, Kamala Tabor, Dana Ternus, Jonathan Uhl, Robert Voss, Yi-Hwa Wu

Statement of Mission

The Department of Humanities and Social Sciences includes the disciplinary areas of criminology, geography, geographic information science, history, humanities, military science, philosophy, political science, social science education, and emergency and disaster management, thus serving a kaleidoscope of constituencies on campus. Throughout the department, academic experiences that embrace broad, general, liberal education as well as applied skills encourage students to be inquisitive, creative, and imaginative as well as functional. The department strives to prepare students to be adaptable and flexible in their occupational and professional pursuits but ever cognizant of and responsible to the human and environmental conditions. The disciplines represented by the department should serve as a foundation upon which every person bases his or her professional career as well as being integral to their lives and the lives of those around them.

Degree Programs

The Department of Humanities and Social Sciences offers seven majors, twelve minors, and certification in middle and secondary school social sciences.

The Bachelor of Science in Criminology (63 hours) is an interdisciplinary program and is a comprehensive study of crime and its victims. The Criminology program prepares students for a broad range of careers such as law enforcement, victim advocacy, offender rehabilitation, and mediation.

The Bachelor of Science in Emergency and Disaster Management (37 hours) uses a multi-disciplinary approach to study crisis, drawing from courses and faculty in communications, geography, psychology, and social sciences. In addition to the crisis management core, multiple options, and electives within those options, provide flexibility so that students can tailor the major to their individual and specific academic and professional needs. This approach provides the student with both theoretical and practical knowledge that is valued in the public, private, and non-profit sectors.

The comprehensive Bachelor of Arts (69 hours) and Bachelor of Science (69 hours) degrees in General Studies provide a broad education across the many disciplines in the university. The program emphasizes fundamental skills in critical thinking, problem-solving, and communication within the context of the core disciplines that comprise the major. The program is designed to be adaptable to the needs of the student by providing the opportunity to take additional electives in any of the discipline areas but still leaving enough room for further study in a particular area.

The comprehensive Bachelor of Science (57 hours) degree in Geography provide students the opportunity to prepare themselves to pursue positions in government, business, education, urban and regional planning, environmental analysis, and natural resource management. It also prepares students for careers that apply GIS and related geospatial technologies to these fields.

The Bachelor of Arts (36 hours) and Bachelor of Science in History (39 hours) provide a traditional liberal arts program and prepares students for careers in such diverse areas as government, public service, business and industry, archives, museums, historical preservation, writing, and research.

A Bachelor of Science in Education degree in Social Studies: History (51 hours) draws upon economics, geography, government, history, and sociology in providing preparation for

teaching social studies. This major must be completed as a part of the B.S.Ed. degree, Secondary Education Program, thus meeting Missouri teacher certification standards for social studies grades 9-12, as well as preparing the student to become a facilitator for lifelong learning in a world of diversity and change. This is a comprehensive major; no minor is required. However, students are free to complete a minor in another field appropriate to the B.S.Ed. degree, Secondary Program, if seeking another teaching area.

The Bachelor of Arts (36 hours) and Bachelor of Science (45 hours) degrees in Political Science introduce the student to the decision-making processes that guide, direct, and determine a society's behavior. Courses focus on the politics and administration of government and factors involved in the competition for political power. The political science program prepares students for a number of careers as well as advanced study in law, municipal planning, city management, urban affairs, education, and public policy analysis.

Minors are available in the areas of liberal arts and sciences, geography, geospatial technology, history, public history and museum studies, criminology, criminal justice, political science, public administration, international relations, emergency and disaster management, emergency services, international humanitarian operations, and diversity, equity, and inclusion. These minor programs assist students interested in a variety of careers, including museum studies, archives, historic preservation, national park service, law enforcement, juvenile justice, theology, crisis management, business, and graduate studies.

Test-Out Policy

Credit by examination through the Department of Humanities and Social Sciences is not available for courses in this catalog.

Department Policies

All students selecting majors or minors in this department must have a departmental advisor from the appropriate area who shall approve all programs, deviations or options. An advisement file shall be maintained on each major as well as for each minor. Advanced standing requirements for each of the majors in the department are indicated preceding each major.

Criminology / 46

Criminology Comprehensive Major, 63 hours: B.S.—No Minor Required

CIP: 450401

This program has an online-only option.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Common Core Required for all Criminology Majors

Common Required Core (27 hours)

| | | |
|------------|--|---|
| CRIM 46205 | Introduction to Criminal Justice OR | 3 |
| POLS 34205 | Introduction to Criminal Justice | 3 |
| CRIM 46210 | Introduction to Criminology OR | 3 |
| SOC 35321 | Criminology | 3 |
| CRIM 46301 | Research Methods in Criminology and Criminal Justice | 3 |
| CRIM 46475 | Applied Criminology | 3 |

| | | |
|------------|--|---|
| CRIM 46499 | Research Seminar in Criminology and Criminal Justice | 3 |
| MATH 17114 | General Statistics✓ | 3 |
| PHIL 39275 | Professional Ethics✓ | 3 |
| POLS 34338 | Rights of the Accused | 3 |
| POLS 34459 | Justice: Theories and Applications | 3 |

Note: MATH 17114 and PHIL 39275 can be used to fulfill Northwest Core requirements but only count once toward the total number of hours needed for graduation.

Prerequisite Courses (6 hours)

| | | |
|------------|---------------------|---|
| SOC 35101 | General Sociology✓ | 3 |
| PSYC 08103 | General Psychology✓ | 3 |

Note: SOC 35101 and PSYC 08103 are prerequisite courses for Sociology and Psychology courses. SOC 35101 and PSYC 08103 can be used to fulfill Northwest Core requirements, but do not count toward the hours needed for the major.

Elective Requirements (36 hours)

Choose a total of 36 hours from Groups A-E with a minimum of hours from each group as indicated. A maximum of two courses from Group F may also be used toward this 36 hours, but courses from Group F are not required.

Group A: Criminal Justice Institutes (6 hours)

Choose at least two of the following courses with a limit of three hours of internship:

| | | |
|--------------------------|--|-------------|
| CRIM 46215 | Introduction to Corrections OR | 3 |
| SOC 35240 | Introduction to Corrections | 3 |
| CRIM 46302 | Police and Society OR | 3 |
| SOC 35375 | Police and Society | 3 |
| CRIM 46495 POLS 34364 | Internship in Criminology and Criminal Justice Criminal Law and Procedure | 1 to 6 3 |

Group B: Sociology (6 hours)

Choose at least two of the following courses:

| | | |
|------------------------|--|--------|
| CRIM 46303 | Delinquency OR | 3 |
| SOC 35320 | Delinquency | 3 |
| CRIM 46315 | Deviant Behavior OR | 3 |
| SOC 35323 | Deviant Behavior | 3 |
| CRIM 46405 | Victimology OR | 3 |
| SOC 35405 | Victimization | 3 |
| SOC 35330 SOC 35316 | Social Stratification Urban Sociology | 3 3 |

Group C: Political Science (6 hours)

Choose at least two of the following courses:

| | | |
|------------|---|---|
| POLS 34301 | Elections, Parties, and Interest Groups | 3 |
| POLS 34303 | The American Congress | 3 |
| POLS 34307 | International Relations | 3 |
| POLS 34308 | Public Policy | 3 |
| POLS 34310 | Comparative Politics | 3 |
| POLS 34321 | American Federalism | 3 |

| | | |
|------------|---|---|
| POLS 34332 | Principles of Public Administration | 3 |
| POLS 34340 | Law and Politics | 3 |
| POLS 34403 | The World of Political Ideas | 3 |
| POLS 34438 | Civil Liberties | 3 |
| POLS 34405 | American Political Thought | 3 |
| POLS 34421 | International Conflict Resolution✓ | 3 |
| POLS 34435 | Public Management | 3 |
| POLS 34436 | Constitutional Law | 3 |
| POLS 34462 | Comparative Political Systems and Behaviors | 3 |

Group D: Adolescence and the Family (3 hours)

Choose at least one of the following courses:

| | | |
|------------|--------------------------------------|---|
| PSYC 08312 | Child Psychology | 3 |
| PSYC 08323 | Child and Adolescent Psychopathology | 3 |
| PSYC 08330 | The Family | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |
| PSYC 08405 | Parenthood Education | 3 |
| SOC 35443 | Family Problems in Modern Society | 3 |

Group E: Diversity and Equity (6 hours)

Choose at least two of the following courses:

| | | |
|------------|--|---|
| HIST 33225 | Race and Ethnicity in America | 3 |
| HIST 33325 | Protest and Activism in American History | 3 |
| HIST 33360 | Women and Gender in U.S. History | 3 |
| PHIL 39277 | Social Justice | 3 |
| PSYC 08353 | Psychology of Race and Gender | 3 |
| POLS 34412 | Minority, Gender, and Sexual Politics | 3 |
| POLS 34422 | Revolution and Social Movements | 3 |
| SOC 35230 | Social Problems | 3 |
| SOC 35337 | Race and Ethnic Issues in Modern Society | 3 |

Group F: Additional Electives (0 - 6 hours)

An optional maximum of two courses may be selected but are not required from the following:

| | | |
|------------|--|--------|
| COM 29420 | Crisis Communication | 3 |
| CRIM 46480 | Special Topics in Criminology and Criminal Justice | 1 to 6 |
| CRIM 46490 | Independent Study in Criminology & Criminal Justice | 1 to 3 |
| CRIM 46495 | Internship in Criminology and Criminal Justice | 1 to 6 |
| CRIM 46499 | Research Seminar in Criminology and Criminal Justice | 3 |
| CSIS 44181 | Introduction to Cybersecurity | 3 |
| EDM 36305 | Disaster Response and Recovery | 3 |
| EDM 36450 | Homeland Security and Defense | 3 |
| ENGL 10315 | Professional and Technical Writing | 3 |
| GEOG 32201 | Maps and Spatial Reasoning | 3 |
| GEOG 32207 | GPS Fundamentals | 3 |
| PSYC 08204 | Introduction to Human Services | 3 |
| PSYC 08223 | Abnormal Psychology | 3 |
| PSYC 08365 | Social Psychology | 3 |
| PSYC 08344 | Drugs, Brain, and Behavior | 3 |
| PSYC 08345 | Disaster Psychology | 3 |
| SOC 35440 | Fundamentals of Social Work Practice | 3 |

Free electives as needed to reach minimum 120 graduation hours

Criminology and Criminal Justice Minor, 24 hours

CIP: 430104

Requirements

Required Courses (12 hours)

| | | |
|------------|--|---|
| CRIM 46205 | Introduction to Criminal Justice OR | 3 |
| POLS 34205 | Introduction to Criminal Justice | 3 |
| CRIM 46210 | Introduction to Criminology OR | 3 |
| SOC 35321 | Criminology | 3 |
| CRIM 46475 | Applied Criminology | 3 |
| POLS 34338 | Rights of the Accused | 3 |

Criminology Electives (6 hours)

Choose 6 hours

| | | |
|------------|--|--------|
| CRIM 46215 | Introduction to Corrections OR | 3 |
| SOC 35240 | Introduction to Corrections | 3 |
| CRIM 46302 | Police and Society OR | 3 |
| SOC 35375 | Police and Society | 3 |
| CRIM 46303 | Delinquency OR | 3 |
| SOC 35320 | Delinquency | 3 |
| CRIM 46315 | Deviant Behavior OR | 3 |
| SOC 35323 | Deviant Behavior | 3 |
| CRIM 46405 | Victimology OR | 3 |
| SOC 35405 | Victimization | 3 |
| CRIM 46301 | Research Methods in Criminology and Criminal Justice | 3 |
| CRIM 46480 | Special Topics in Criminology and Criminal Justice | 1 to 6 |
| CRIM 46495 | Internship in Criminology and Criminal Justice | 1 to 6 |
| CRIM 46499 | Research Seminar in Criminology and Criminal Justice | 3 |

Political Science Electives (3 hours)

Choose 3 hours

| | | |
|------------|---|--------|
| POLS 34303 | The American Congress | 3 |
| POLS 34307 | International Relations | 3 |
| POLS 34308 | Public Policy | 3 |
| POLS 34310 | Comparative Politics | 3 |
| POLS 34321 | American Federalism | 3 |
| POLS 34332 | Principles of Public Administration | 3 |
| POLS 34340 | Law and Politics | 3 |
| POLS 34364 | Criminal Law and Procedure | 3 |
| POLS 34412 | Race, Ethnicity, and Politics | 3 |
| POLS 34421 | International Conflict Resolution✓ | 3 |
| POLS 34422 | Revolution and Social Movements | 3 |
| POLS 34436 | Constitutional Law | 3 |
| POLS 34438 | Civil Liberties | 3 |
| POLS 34459 | Justice: Theories and Applications | 3 |
| POLS 34462 | Comparative Political Systems and Behaviors | 3 |
| POLS 34497 | Research Seminar in Political Science | 3 |
| POLS 34498 | Special Topics | 1 to 3 |

Additional Electives (3 hours)

Choose 3 hours

| | | |
|------------|--|--------|
| CRIM 46215 | Introduction to Corrections OR | 3 |
| SOC 35240 | Introduction to Corrections | 3 |
| CRIM 46301 | Research Methods in Criminology and Criminal Justice | 3 |
| CRIM 46302 | Police and Society OR | 3 |
| SOC 35375 | Police and Society | 3 |
| CRIM 46315 | Deviant Behavior OR | 3 |
| SOC 35323 | Deviant Behavior | 3 |
| CRIM 46405 | Victimology OR | 3 |
| SOC 35405 | Victimization | 3 |
| CRIM 46480 | Special Topics in Criminology and Criminal Justice | 1 to 6 |
| CRIM 46490 | Independent Study in Criminology & Criminal Justice | 1 to 3 |
| HIST 33225 | Race and Ethnicity in America | 3 |
| HIST 33325 | Protest and Activism in American History | 3 |
| HIST 33360 | Women and Gender in U.S. History | 3 |
| PHIL 39277 | Social Justice | 3 |
| PSYC 08223 | Abnormal Psychology | 3 |
| PSYC 08330 | The Family | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |
| PSYC 08344 | Drugs, Brain, and Behavior | 3 |
| PSYC 08353 | Psychology of Race and Gender | 3 |
| PSYC 08365 | Social Psychology | 3 |
| SOC 35230 | Social Problems | 3 |
| SOC 35316 | Urban Sociology | 3 |
| SOC 35330 | Social Stratification | 3 |
| SOC 35337 | Race and Ethnic Issues in Modern Society | 3 |
| SOC 35443 | Family Problems in Modern Society | 3 |

CRIM 46215/SOC 35240 Introduction to Corrections, CRIM 46302/SOC 35375 Police and Society, CRIM 46301 Research Methods in Criminology and Criminal Justice, CRIM 46315/SOC 35323 Deviant Behavior, and CRIM 46405/SOC 35405 Victimology only count once in the program.

Coursework in Sociology and Psychology may have prerequisites.

Humanities / 26

General Studies Comprehensive Major, 69 hours: B.A.- No Minor Required

CIP: 240102

The Bachelor of Arts in General Studies is an online or on-campus, adaptable degree aimed at the working professional who wants to continue working while earning an undergraduate degree. It is also suitable for students who have an unclear career path. The degree is multidisciplinary, allowing students the opportunity to explore their interests in unique and innovative ways. Students can choose from emphasis areas including but not limited to accounting and finance, business management, education, geography and geographic information science, health and physical education, marketing, and nursing. Students have the option to create their own emphasis area(s) through a proposal process with their academic advisor.

Requirements

Students working toward a Bachelor of Arts degree in General Studies must 1) complete 9 hours of one language and 2) complete a minimum of 32 credit hours at the 300-level or above.

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

B.A. Modern Language Requirement (9 hours)

Modern Language

9

All 9 hours must be in the same language.

Emphasis Areas (54 credit hours)

Students must complete at least 6 courses, with labs if required, from 3 different emphasis areas for a minimum of 18 hours per emphasis area.

Emphasis areas should be selected in consultation with an academic advisor.

Students wanting to create an emphasis area should work with an academic advisor to complete the proposal paperwork.

Advisor-Approved Electives (15 hours)

Free electives as needed to reach minimum 120 graduation hours

General Studies Comprehensive Major, 69 hours: B.S.- No Minor Required

CIP: 240102

The Bachelor of Science in General Studies is an adaptable degree aimed at the working professional who wants to continue working while earning an undergraduate degree. It is also suitable for students who have an unclear career path. The degree is multidisciplinary, allowing students the opportunity to explore their interests in unique and innovative ways. Students can choose from emphasis areas including but not limited to accounting and finance, business management, education, geography and geographic information science, health and physical education, marketing, and nursing. Students have the option to create their own emphasis area(s) through a proposal process with their academic advisor.

This program has an online-only option.

Requirements

Students working toward a Bachelor of Science degree in General Studies must complete a minimum of 40 credit hours at the 300-level or above.

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Emphasis Areas (54 hours)

Students must complete at least 6 courses, with labs if required, from 3 different emphasis areas for a minimum of 18 hours per emphasis area.

Emphasis areas should be selected in consultation with an academic advisor.

Students wanting to create an emphasis area should work with an academic advisor to complete the proposal paperwork.

Advisor-Approved Electives (15 hours)

Free electives as needed to reach minimum 120 graduation hours

Diversity, Equity, and Inclusion Studies Minor, 24 hours

CIP: 302301

The minor in Diversity, Equity, and Inclusion Studies affords students with an interdisciplinary exposure to issues concerning race, ethnicity, gender, sexuality, religion, age, disability, and intersectionality. It draws upon critical theory in a variety of disciplines and focuses on viewpoints in DEI from both global and American perspectives.

Requirements

Required Courses (15 hours)

| | | |
|------------|--|---|
| COM 29225 | Intercultural Communication | 3 |
| PHIL 39277 | Social Justice | 3 |
| POLS 34438 | Civil Liberties | 3 |
| SOC 35337 | Race and Ethnic Issues in Modern Society | 3 |
| POLS 34492 | Research in Diversity, Equity, and Inclusion Studies | 3 |
| | OR | |
| POLS 34493 | Internship in Diversity, Equity, and Inclusion Studies | 3 |

Elective Group 1 (3 hours)

Students must choose one elective (3 hours) from Elective Group 1

| | | |
|------------|---|---------|
| ENGL 10224 | Multiethnic Literature of the United States | 3 |
| EDUC 61252 | Pluralism in a Multicultural Society | 3 |
| GEOG 32102 | People and Cultures of the World✓ | 3 |
| HIST 33225 | Race and Ethnicity in America | 3 |
| HUM 26162 | Comparative Religions✓ | 3 |
| INST 80299 | International Study-Study Abroad (Country) | 3 to 15 |
| MMED 20221 | Ethnographic Film Study✓ | 3 |
| POLS 34205 | Introduction to Criminal Justice | 3 |
| REC 45216 | Gerontology | 3 |
| REC 45245 | Leisure Services and Special Populations | 3 |

INST 80299 may only be taken for three hours to fulfill the Elective Group 1 Requirement.

Elective Group 2 (6 hours)

Students must take two courses from Elective Group 2 (6 hours).

| | | |
|------------|--|---|
| ENGL 10343 | Survey of Women's Literature | 3 |
| ENGL 10540 | Studies in Multiculturalism and World Literature | 3 |
| HIST 33360 | Women and Gender in U.S. History | 3 |
| POLS 34459 | Justice: Theories and Applications | 3 |
| POLS 34412 | Race, Ethnicity, and Politics | 3 |
| SOC 35316 | Urban Sociology | 3 |
| SOC 35330 | Social Stratification | 3 |
| POLS 34492 | Research in Diversity, Equity, and Inclusion Studies | 3 |
| POLS 34493 | Internship in Diversity, Equity, and Inclusion Studies | 3 |

Student may take either POLS 34492 or POLS 34493 as an Elective Group 2 option if they have not taken the course in fulfilling the required course category.

No course taken for the minor may be used to fulfill any Northwest Core Requirement.

Liberal Arts and Sciences Minor, 25-27 hours

CIP: 240101

Requirements

Required Courses (6 hours)

| | | |
|------------|--|---|
| HUM 26102 | Western Civilization I: The Ancient World to 1500✓ OR | 3 |
| HUM 26103 | Western Civilization II: 1500 to the Present✓ | 3 |
| PHIL 39171 | Introduction to Philosophy✓ | 3 |

Choose 1 course from the following (3 hours):

Any 300-level or higher English course for which the prerequisites are met 3

Choose 1 course from the following (3 hours):

Any 300-level or higher Art course for which the prerequisites are met 3

Any 300-level or higher Theatre course for which the prerequisites are met 3

Any 300-level or higher Music course for which the prerequisites are met

Choose 1 course from the following (3 hours):

Any 300-level or higher course in Geography and Geographic Information Science for which the prerequisites are met

Any 300-level or higher course in History for which the prerequisites are met

Any 300-level or higher Political Science course for which the prerequisites are met

Choose 1 course and lab from the following (4 hours):

BIOL 04112 General Botany 3
BIOL 04113 General Botany Laboratory 1

OR

BIOL 04114 General Zoology 3
BIOL 04115 General Zoology Laboratory 1

OR

GEOL 27110 General Geology✓ 3
GEOL 27111 General Geology Laboratory✓ 1

OR

GEOL 27114 General Earth Science✓ 3
GEOL 27115 General Earth Science Laboratory✓ 1

Approved Electives (3 hours)

Approved electives 3

Choose 1 course from the following (3-5 hours):

MATH 17114 General Statistics✓ 3
MATH 17118 Precalculus Algebra✓ 3

MATH 17117 Precalculus✓ 5
MATH 17120 Calculus I 4

Any Philosophy course 200-level or higher for which the prerequisites are met

HUM 26102, HUM 26103, PHIL 39171, MATH 17114, MATH 17118, MATH 17117, MATH 17120, GEOL 27110, GEOL 27111, GEOL 27114, and GEOL 27115 cannot be used to fulfill any Northwest Core Requirement.

Geography / 32**Internship and Independent Study**

Students may apply for no more than six credit hours of combined internship and independent study hours toward their major requirements.

Major/Minor Shared Core Requirements

For students who have a major in Geography and a minor in Geospatial Technology, only the Maps and Spatial Reasoning course may be counted toward both the major and minor.

Geography Comprehensive Major, 57 Hours: B.S. - No Minor Required

CIP: 450701

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Geography Fundamentals (18 hours)

| | | |
|------------|--|---|
| GEOG 32101 | Introduction to Geography✓ | 3 |
| GEOG 32102 | People and Cultures of the World✓ | 3 |
| GEOG 32201 | Maps and Spatial Reasoning | 3 |
| GEOG 32221 | Economic Globalization | 3 |
| GEOG 32410 | Geographic Approaches to Research | 3 |
| GEOG 32462 | Digital Cartography and Geovisualization | 3 |

GEOG 32101 and GEOG 32102 fulfill Northwest Core requirements as well as requirements of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Area of Emphasis (39 hours)

Choose one area of emphasis from the following options:

Geographic Information Science Emphasis

Required Courses (24 hours)

| | | |
|------------|---|---|
| MATH 17114 | General Statistics✓ | 3 |
| GEOG 32207 | GIS Fundamentals | 3 |
| GEOG 32362 | Web Mapping | 3 |
| GEOG 32364 | Image Interpretation and Analysis | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |
| GEOG 32463 | Remote Sensing | 3 |
| GEOG 32465 | Introduction to Customized GIS | 3 |
| GEOG 32565 | Advanced Geographic Information Systems | 3 |

Elective in Regional Geography (3)

| | | |
|------------|------------------------------|---|
| GEOG 32340 | Geography of North America | 3 |
| GEOG 32441 | Geography of Europe | 3 |
| GEOG 32442 | Geography of Asia | 3 |
| GEOG 32443 | Geography of the Middle East | 3 |
| GEOG 32444 | Geography of Africa | 3 |
| GEOG 32445 | Geography of Latin America | 3 |

Systematic Elective (3 hours)

| | | |
|------------|-----------------------------------|--------|
| GEOG 32360 | Dynamic and Synoptic Meteorology | 3 |
| GEOG 32361 | Climatology | 3 |
| GEOG 32370 | Natural Disasters | 3 |
| GEOG 32401 | Conservation of Natural Resources | 3 |
| GEOG 32415 | Internship in Geography | 1 to 3 |
| GEOG 32520 | Military Geography | 3 |
| GEOG 32521 | Geopolitics | 3 |
| GEOG 32522 | Cities and Urban Design | 3 |

Approved Electives in Cognate Field (9 hours)

Culture and Society Emphasis

Required Courses (9)

| | | |
|------------|-------------------------|---|
| PHIL 39277 | Social Justice | 3 |
| GEOG 32521 | Geopolitics | 3 |
| GEOG 32522 | Cities and Urban Design | 3 |

Electives in Regional Geography (9)

| | | |
|------------|------------------------------|---|
| GEOG 32340 | Geography of North America | 3 |
| GEOG 32441 | Geography of Europe | 3 |
| GEOG 32442 | Geography of Asia | 3 |
| GEOG 32443 | Geography of the Middle East | 3 |
| GEOG 32444 | Geography of Africa | 3 |
| GEOG 32445 | Geography of Latin America | 3 |

Systematic Electives (6)

| | | |
|------------|-----------------------------------|--------|
| GEOG 32360 | Dynamic and Synoptic Meteorology | 3 |
| GEOG 32361 | Climatology | 3 |
| GEOG 32370 | Natural Disasters | 3 |
| GEOG 32401 | Conservation of Natural Resources | 3 |
| GEOG 32415 | Internship in Geography | 1 to 3 |
| GEOG 32520 | Military Geography | 3 |

Electives in Geographic Information Science (6)

| | | |
|------------|---|---|
| GEOG 32207 | GPS Fundamentals | 3 |
| GEOG 32362 | Web Mapping | 3 |
| GEOG 32364 | Image Interpretation and Analysis | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |
| GEOG 32463 | Remote Sensing | 3 |
| GEOG 32465 | Introduction to Customized GIS | 3 |
| GEOG 32565 | Advanced Geographic Information Systems | 3 |

Approved Electives in Cognate Field (9)**Environmental Geography Emphasis****Required Courses (12)**

| | | |
|------------|-----------------------------------|---|
| GEOG 32360 | Dynamic and Synoptic Meteorology | 3 |
| GEOG 32361 | Climatology | 3 |
| GEOG 32370 | Natural Disasters | 3 |
| GEOG 32401 | Conservation of Natural Resources | 3 |

Electives in Regional Geography (6)

| | | |
|------------|------------------------------|---|
| GEOG 32340 | Geography of North America | 3 |
| GEOG 32441 | Geography of Europe | 3 |
| GEOG 32442 | Geography of Asia | 3 |
| GEOG 32443 | Geography of the Middle East | 3 |
| GEOG 32444 | Geography of Africa | 3 |
| GEOG 32445 | Geography of Latin America | 3 |

Systematic Electives (6)

| | | |
|------------|-------------------------|--------|
| GEOG 32415 | Internship in Geography | 1 to 3 |
| GEOG 32520 | Military Geography | 3 |
| GEOG 32521 | Geopolitics | 3 |
| GEOG 32522 | Cities and Urban Design | 3 |
| GEOL 27212 | Historical Geology | 4 |
| GEOL 27320 | Geology Field Trip | 1 to 3 |
| GEOL 27360 | Environmental Geology | 4 |

Electives in Geographic Information Science (6)

| | | |
|------------|---|---|
| GEOG 32207 | GPS Fundamentals | 3 |
| GEOG 32362 | Web Mapping | 3 |
| GEOG 32364 | Image Interpretation and Analysis | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |
| GEOG 32463 | Remote Sensing | 3 |
| GEOG 32465 | Introduction to Customized GIS | 3 |
| GEOG 32565 | Advanced Geographic Information Systems | 3 |

Approved Electives in Cognate Field (9)

Free electives as needed to reach minimum 120 graduation hours

Data Sciences and Informatics Comprehensive Major-GIS Emphasis, 76 hours: B.S.—No Minor Required

CIP: 110802

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Core Requirements for a Major in Data Sciences and Informatics

Required Courses (52 hours)

| | | |
|------------|--|---|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17120 | Calculus I | 4 |
| MATH 17311 | Linear Algebra | 3 |
| MATH 17316 | Linear Statistical Models I | 3 |
| MATH 17318 | Linear Statistical Models II | 3 |
| MATH 17356 | Data Mining with Applications to Business and Sciences | 3 |
| CSIS 44101 | Foundations of Computing OR | 3 |
| CSIS 44130 | Computers and Information Technology | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44317 | Management Information Systems | 3 |
| CSIS 44413 | Visualization | 3 |
| CSIS 44460 | Database Systems | 3 |
| PHIL 39275 | Professional Ethics✓ | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Note: If ANY courses in the Core Requirements for this major are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

CSIS 44141 has a prerequisite of a grade of C or better in CSIS 44101 or CSIS 44130, both of which are options for the Institutional Requirement for Digital Literacy.

PHIL 39275 fulfills a Northwest Core Humanities Requirement.

ECON 52150 fulfills a Northwest Core Social Science Requirement.

Geographic Information Systems (GIS)

Required Courses (24 hours)

| | | |
|------------|--|---|
| GEOG 32201 | Maps and Spatial Reasoning | 3 |
| GEOG 32362 | Web Mapping | 3 |
| GEOG 32364 | Image Interpretation and Analysis | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |
| GEOG 32462 | Digital Cartography and Geovisualization | 3 |
| GEOG 32463 | Remote Sensing | 3 |
| GEOG 32465 | Introduction to Customized GIS | 3 |
| GEOG 32565 | Advanced Geographic Information Systems | 3 |

Free electives as needed to reach minimum 120 graduation hours

Geography Minor, 24 hours

CIP: 450701

Requirements**Required Courses (6 hours)**

| | | |
|------------|----------------------------|---|
| GEOG 32201 | Maps and Spatial Reasoning | 3 |
| GEOG 32221 | Economic Globalization | 3 |

Electives in Regional Geography (6 hours):

| | | |
|------------|------------------------------|---|
| GEOG 32340 | Geography of North America | 3 |
| GEOG 32441 | Geography of Europe | 3 |
| GEOG 32442 | Geography of Asia | 3 |
| GEOG 32443 | Geography of the Middle East | 3 |
| GEOG 32444 | Geography of Africa | 3 |
| GEOG 32445 | Geography of Latin America | 3 |

Electives in Systematic Geography (9 hours):

| | | |
|------------|-----------------------------------|--------|
| GEOG 32360 | Dynamic and Synoptic Meteorology | 3 |
| GEOG 32361 | Climateology | 3 |
| GEOG 32370 | Natural Disasters | 3 |
| GEOG 32401 | Conservation of Natural Resources | 3 |
| GEOG 32511 | Special Topics | 1 to 3 |
| GEOG 32520 | Military Geography | 3 |
| GEOG 32521 | Geopolitics | 3 |
| GEOG 32522 | Cities and Urban Design | 3 |

Elective in Geographic Information Science (3 hours):

| | | |
|------------|-----------------------------------|---|
| GEOG 32207 | GPS Fundamentals | 3 |
| GEOG 32362 | Web Mapping | 3 |
| GEOG 32364 | Image Interpretation and Analysis | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |
| GEOG 32463 | Remote Sensing | 3 |

Geospatial Technology Minor, 24 hours

CIP: 450702

Requirements**Required Courses (24 hours)**

| | | |
|------------|--|---|
| GEOG 32201 | Maps and Spatial Reasoning | 3 |
| GEOG 32207 | GPS Fundamentals | 3 |
| GEOG 32362 | Web Mapping | 3 |
| GEOG 32364 | Image Interpretation and Analysis | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |
| GEOG 32462 | Digital Cartography and Geovisualization | 3 |
| GEOG 32463 | Remote Sensing | 3 |
| GEOG 32565 | Advanced Geographic Information Systems | 3 |

Geographic Information Systems Certificate, 15 hours

CIP: 450702

*Certificate must be completed with a Bachelor's degree; it is not a stand-alone program.***Requirements****Required Courses (15 hours)**

| | | |
|------------|----------------------------|---|
| GEOG 32201 | Maps and Spatial Reasoning | 3 |
| GEOG 32207 | GPS Fundamentals | 3 |

| | | |
|------------|-----------------------------------|---|
| GEOG 32362 | Web Mapping | 3 |
| GEOG 32364 | Image Interpretation and Analysis | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |

History / 33

History Core Requirements

Core Requirements for Majors in History

Courses (18 hours)

| | | |
|------------|--|---|
| HUM 26102 | Western Civilization I: The Ancient World to 1500✓ OR | 3 |
| HUM 26202 | Patterns in World Societies to 1500 | 3 |
| HUM 26103 | Western Civilization II: 1500 to the Present✓ OR | 3 |
| HUM 26203 | Patterns in World Societies Since 1500 | 3 |
| HIST 33155 | The United States to 1877✓ | 3 |
| HIST 33156 | The United States since 1877✓ | 3 |
| HIST 33301 | The Historian's Craft and Its Uses | 3 |
| HIST 33591 | Research Seminar in History | 3 |

HUM 26102, HUM 26103, HUM 26202, HUM 26203, HIST 33155, and HIST 33156 can be used to fulfill Northwest Core Requirements and the Core Requirements in the History major but can only count once toward the total number of credit hours required for graduation.

History Major, 36 hours: B.A.—Minor Required

CIP: 540101

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

B.A. Modern Language Requirement (9 hours)

| | |
|-----------------|---|
| Modern Language | 9 |
|-----------------|---|

All 9 hours must be in the same language.

Core Requirements for Majors in History (18 hours)

| | | |
|------------|--|---|
| HUM 26102 | Western Civilization I: The Ancient World to 1500✓ OR | 3 |
| HUM 26202 | Patterns in World Societies to 1500 | 3 |
| HUM 26103 | Western Civilization II: 1500 to the Present✓ OR | 3 |
| HUM 26203 | Patterns in World Societies Since 1500 | 3 |
| HIST 33155 | The United States to 1877✓ | 3 |
| HIST 33156 | The United States since 1877✓ | 3 |
| HIST 33301 | The Historian's Craft and Its Uses | 3 |
| HIST 33591 | Research Seminar in History | 3 |

HUM 26102, HUM 26103, HUM 26202, HUM 26203, HIST 33155, and HIST 33156 can be used to fulfill Northwest Core Requirements and Core Requirements in the History major but can only count once toward the degree.

American History Electives (9 hours)

Choose 3 courses from the following:

| | | |
|------------|-------------------------------|---|
| HIST 33225 | Race and Ethnicity in America | 3 |
|------------|-------------------------------|---|

| | | |
|------------|---|--------|
| HIST 33302 | Digital Humanities | 3 |
| HIST 33313 | American History of Science, Technology, and Medicine | 3 |
| HIST 33314 | Environmental History of the US | 3 |
| HIST 33320 | Public History in the US | 3 |
| HIST 33325 | Protest and Activism in American History | 3 |
| HIST 33350 | American Military History | 3 |
| HIST 33360 | Women and Gender in U.S. History | 3 |
| HIST 33362 | The History of Missouri | 3 |
| HIST 33365 | American Religious History | 3 |
| HIST 33388 | The History of the American Economy | 3 |
| HIST 33444 | Practicum in American Local History | 3 |
| HIST 33491 | Historical Resources Internship | 1 to 6 |
| HIST 33522 | The American Colonies | 3 |
| HIST 33524 | The Early American Republic | 3 |
| HIST 33525 | United States Since 1945 | 3 |
| HIST 33534 | The Civil War and Reconstruction | 3 |
| HIST 33556 | The Gilded Age and Progressive Era | 3 |
| HIST 33582 | The American West | 3 |
| HIST 33591 | Research Seminar in History | 3 |

A maximum of 3 credit hours of HIST 33491 Historical Resources Internship can be counted toward the major.

World History Electives (9 hours)

Choose 3 courses from the following:

| | | |
|------------|---|--------|
| HIST 33303 | Global Health in History | 3 |
| HIST 33305 | The Ancient World | 3 |
| HIST 33306 | The Modern World | 3 |
| HIST 33310 | France Since Louis XIV | 3 |
| HIST 33323 | The World at War | 3 |
| HIST 33370 | History of the Near and Middle East | 3 |
| HIST 33375 | History of Latin America | 3 |
| HIST 33380 | Humanitarian Crises of the Modern World | 3 |
| HIST 33386 | The Pacific Rim | 3 |
| HIST 33389 | Early Modern Europe: The West Meets the World | 3 |
| HIST 33491 | Historical Resources Internship | 1 to 6 |
| HIST 33503 | The Middle Ages | 3 |
| HIST 33510 | History of Russia | 3 |
| HIST 33511 | The Long Nineteenth Century | 3 |
| HIST 33514 | The Violent Twentieth Century | 3 |
| HIST 33521 | History of Modern Germany | 3 |
| HIST 33532 | History of the Atlantic World | 3 |
| HIST 33591 | Research Seminar in History | 3 |

A maximum of 3 credit hours of HIST 33491 Historical Resources Internship can be counted toward the major.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

History Major, 39 hours: B.S.—Minor Required

CIP: 540101

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Core Requirements for Majors in History (18 hours)

| | | |
|-----------|--|---|
| HUM 26102 | Western Civilization I: The Ancient World to 1500✓ OR | 3 |
| HUM 26202 | Patterns in World Societies to 1500 | 3 |

| | | |
|------------|---|---|
| HUM 26103 | Western Civilization II: 1500 to the Present✓ OR | 3 |
| HUM 26203 | Patterns in World Societies Since 1500 | 3 |
| HIST 33155 | The United States to 1877✓ | 3 |
| HIST 33156 | The United States since 1877✓ | 3 |
| HIST 33301 | The Historian's Craft and Its Uses | 3 |
| HIST 33591 | Research Seminar in History | 3 |

HUM 26102, HUM 26103, HUM 26202, HUM 26203, HIST 33155, and HIST 33156 can be used to fulfill Northwest Core Requirements and Core Requirements in the History major but can only count once towards the degree.

American History Electives (12 hours)

Choose 4 courses from the following:

| | | |
|------------|---|--------|
| HIST 33225 | Race and Ethnicity in America | 3 |
| HIST 33302 | Digital Humanities | 3 |
| HIST 33313 | American History of Science, Technology, and Medicine | 3 |
| HIST 33314 | Environmental History of the US | 3 |
| HIST 33320 | Public History in the US | 3 |
| HIST 33325 | Protest and Activism in American History | 3 |
| HIST 33350 | American Military History | 3 |
| HIST 33360 | Women and Gender in U.S. History | 3 |
| HIST 33362 | The History of Missouri | 3 |
| HIST 33365 | American Religious History | 3 |
| HIST 33388 | The History of the American Economy | 3 |
| HIST 33444 | Practicum in American Local History | 3 |
| HIST 33491 | Historical Resources Internship | 1 to 6 |
| HIST 33522 | The American Colonies | 3 |
| HIST 33524 | The Early American Republic | 3 |
| HIST 33525 | United States Since 1945 | 3 |
| HIST 33534 | The Civil War and Reconstruction | 3 |
| HIST 33556 | The Gilded Age and Progressive Era | 3 |
| HIST 33582 | The American West | 3 |
| HIST 33591 | Research Seminar in History | 3 |

A maximum of 3 credit hours of HIST 33491 Historical Resources Internship can be counted toward the major.

World History Electives (9 hours)

Choose 3 courses from the following:

| | | |
|------------|---|--------|
| HIST 33303 | Global Health in History | 3 |
| HIST 33305 | The Ancient World | 3 |
| HIST 33306 | The Modern World | 3 |
| HIST 33310 | France Since Louis XIV | 3 |
| HIST 33323 | The World at War | 3 |
| HIST 33370 | History of the Near and Middle East | 3 |
| HIST 33375 | History of Latin America | 3 |
| HIST 33380 | Humanitarian Crises of the Modern World | 3 |
| HIST 33386 | The Pacific Rim | 3 |
| HIST 33389 | Early Modern Europe: The West Meets the World | 3 |
| HIST 33491 | Historical Resources Internship | 1 to 6 |
| HIST 33503 | The Middle Ages | 3 |
| HIST 33510 | History of Russia | 3 |
| HIST 33511 | The Long Nineteenth Century | 3 |
| HIST 33514 | The Violent Twentieth Century | 3 |
| HIST 33521 | History of Modern Germany | 3 |
| HIST 33532 | History of the Atlantic World | 3 |
| HIST 33591 | Research Seminar in History | 3 |

A maximum of 3 credit hours of HIST 33491 Historical Resources Internship can be counted toward the major.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Social Studies: History Comprehensive Major, 51 hours: B.S. Ed. (Certifies grades 9-12)

CIP: 131317

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (30 hours)

| | | |
|------------|--|---|
| HUM 26102 | Western Civilization I: The Ancient World to 1500✓ OR | 3 |
| HUM 26202 | Patterns in World Societies to 1500 | 3 |
| HUM 26103 | Western Civilization II: 1500 to the Present✓ OR | 3 |
| HUM 26203 | Patterns in World Societies Since 1500 | 3 |
| HIST 33155 | The United States to 1877✓ | 3 |
| HIST 33156 | The United States since 1877✓ | 3 |
| GEOG 32101 | Introduction to Geography✓ | 3 |
| ECON 52130 | Survey of Economics✓ OR | 3 |
| ECON 52150 | Principles of Macroeconomics✓ OR | 3 |
| ECON 52151 | Principles of Microeconomics✓ | 3 |
| SOC 35101 | General Sociology✓ | 3 |
| PSYC 08103 | General Psychology✓ | 3 |
| HIST 33301 | The Historian's Craft and Its Uses | 3 |
| HIST 33591 | Research Seminar in History | 3 |

HUM 26102, HUM 26103, HUM 26202, HUM 26203, HIST 33155, HIST 33156, GEOG 32101, ECON 52130, ECON 52150, SOC 35101, and PSYC 08103 can be used to fulfill Northwest Core Requirements but only count once toward the total hours needed for graduation.

American History (9 hours)

Choose three courses from the following:

| | | |
|------------|---|---|
| HIST 33313 | American History of Science, Technology, and Medicine | 3 |
| HIST 33314 | Environmental History of the US | 3 |
| HIST 33320 | Public History in the US | 3 |
| HIST 33325 | Protest and Activism in American History | 3 |
| HIST 33350 | American Military History | 3 |
| HIST 33360 | Women and Gender in U.S. History | 3 |
| HIST 33362 | The History of Missouri | 3 |
| HIST 33365 | American Religious History | 3 |
| HIST 33388 | The History of the American Economy | 3 |
| HIST 33444 | Practicum in American Local History | 3 |
| HIST 33522 | The American Colonies | 3 |
| HIST 33524 | The Early American Republic | 3 |
| HIST 33525 | United States Since 1945 | 3 |
| HIST 33534 | The Civil War and Reconstruction | 3 |
| HIST 33556 | The Gilded Age and Progressive Era | 3 |
| HIST 33582 | The American West | 3 |

| | | |
|------------|-----------------------------|---|
| HIST 33591 | Research Seminar in History | 3 |
|------------|-----------------------------|---|

World History (6 hours)

Choose two courses from the following:

| | | |
|------------|---|---|
| HIST 33303 | Global Health in History | 3 |
| HIST 33305 | The Ancient World | 3 |
| HIST 33306 | The Modern World | 3 |
| HIST 33310 | France Since Louis XIV | 3 |
| HIST 33323 | The World at War | 3 |
| HIST 33370 | History of the Near and Middle East | 3 |
| HIST 33375 | History of Latin America | 3 |
| HIST 33380 | Humanitarian Crises of the Modern World | 3 |
| HIST 33386 | The Pacific Rim | 3 |
| HIST 33389 | Early Modern Europe: The West Meets the World | 3 |
| HIST 33503 | The Middle Ages | 3 |
| HIST 33510 | History of Russia | 3 |
| HIST 33511 | The Long Nineteenth Century | 3 |
| HIST 33514 | The Violent Twentieth Century | 3 |
| HIST 33521 | History of Modern Germany | 3 |
| HIST 33591 | Research Seminar in History | 3 |

Political Science (6 hours)

Choose two courses from the following:

| | | |
|------------|--|--------|
| POLS 34215 | Introduction to Political Theory | 3 |
| POLS 34302 | The American Presidency | 3 |
| POLS 34303 | The American Congress | 3 |
| POLS 34310 | Comparative Politics | 3 |
| POLS 34321 | American Federalism | 3 |
| POLS 34301 | Elections, Parties, and Interest Groups | 3 |
| | Advisor-approved political science electives | 3 to 6 |

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take HIST 33480 Methods in Secondary School Social Studies as part of their professional education requirements.

Free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Social Studies grades 9-12.

Social Studies Certification, 24 hours: B.S.Ed., Major in Middle School (Certifies Grades 5-9)

CIP: 131317

Requirements**Required Courses (24 hours)**

| | | |
|------------|--|---|
| HUM 26103 | Western Civilization II: 1500 to the Present✓ OR | 3 |
| HUM 26203 | Patterns in World Societies Since 1500 | 3 |
| HIST 33155 | The United States to 1877✓ OR | 3 |
| HIST 33156 | The United States since 1877✓ | 3 |
| | Select two courses in History numbered 33300 and above | 6 |
| POLS 34321 | American Federalism | 3 |

| | | |
|------------|-------------------------------|---|
| GEOG 32101 | Introduction to Geography✓ | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| SOC 35101 | General Sociology✓ | 3 |

HUM 26103, HUM 26203, HIST 33155, and HIST 33156 can be used to fulfill Northwest Core Requirements but only count once toward the total hours needed for graduation.

Professional Education Requirements

See Middle School Education Program Requirements (p. 308)

Students must take HIST 33480 Methods in Secondary School Social Studies as part of their professional education requirements.

This certification, when completed under the B.S.Ed. Middle School Program, will meet the Missouri teacher certification standards for Social Science grades 5-9. Primary advisement for Middle School Certification is provided by the School of Education (p. 299). Please also seek a secondary advisor from the content area.

History Minor, 24 hours

CIP: 450801

Requirements

Core Requirements for Minor in History (15 hours)

| | | |
|------------|--|---|
| HUM 26102 | Western Civilization I: The Ancient World to 1500✓ OR | 3 |
| HUM 26202 | Patterns in World Societies to 1500 | 3 |
| HUM 26103 | Western Civilization II: 1500 to the Present✓ OR | 3 |
| HUM 26203 | Patterns in World Societies Since 1500 | 3 |
| HIST 33155 | The United States to 1877✓ | 3 |
| HIST 33156 | The United States since 1877✓ | 3 |
| HIST 33301 | The Historian's Craft and Its Uses | 3 |

HUM 26102, HUM 26103, HUM 26202, HUM 26203, HIST 33155, and HIST 33156 can be used to fulfill Northwest Core Requirements and Core Requirements in the History minor but can only count once toward the degree.

American History Electives (3 hours)

Choose 1 course from the following:

| | | |
|------------|---|--------|
| HIST 33225 | Race and Ethnicity in America | 3 |
| HIST 33313 | American History of Science, Technology, and Medicine | 3 |
| HIST 33314 | Environmental History of the US | 3 |
| HIST 33320 | Public History in the US | 3 |
| HIST 33325 | Protest and Activism in American History | 3 |
| HIST 33350 | American Military History | 3 |
| HIST 33360 | Women and Gender in U.S. History | 3 |
| HIST 33362 | The History of Missouri | 3 |
| HIST 33365 | American Religious History | 3 |
| HIST 33388 | The History of the American Economy | 3 |
| HIST 33444 | Practicum in American Local History | 3 |
| HIST 33491 | Historical Resources Internship | 1 to 6 |
| HIST 33522 | The American Colonies | 3 |
| HIST 33524 | The Early American Republic | 3 |
| HIST 33525 | United States Since 1945 | 3 |
| HIST 33534 | The Civil War and Reconstruction | 3 |
| HIST 33556 | The Gilded Age and Progressive Era | 3 |
| HIST 33582 | The American West | 3 |
| HIST 33591 | Research Seminar in History | 3 |

A maximum of 3 credit hours of HIST 33491 Historical Resources Internship can be counted toward the minor.

World History Electives (3 hours)

Choose 1 course from the following:

| | | |
|------------|---|--------|
| HIST 33302 | Digital Humanities | 3 |
| HIST 33303 | Global Health in History | 3 |
| HIST 33305 | The Ancient World | 3 |
| HIST 33306 | The Modern World | 3 |
| HIST 33310 | France Since Louis XIV | 3 |
| HIST 33323 | The World at War | 3 |
| HIST 33370 | History of the Near and Middle East | 3 |
| HIST 33375 | History of Latin America | 3 |
| HIST 33380 | Humanitarian Crises of the Modern World | 3 |
| HIST 33386 | The Pacific Rim | 3 |
| HIST 33389 | Early Modern Europe: The West Meets the World | 3 |
| HIST 33491 | Historical Resources Internship | 1 to 6 |
| HIST 33503 | The Middle Ages | 3 |
| HIST 33510 | History of Russia | 3 |
| HIST 33511 | The Long Nineteenth Century | 3 |
| HIST 33514 | The Violent Twentieth Century | 3 |
| HIST 33521 | History of Modern Germany | 3 |
| HIST 33532 | History of the Atlantic World | 3 |
| HIST 33591 | Research Seminar in History | 3 |

A maximum of 3 credit hours of HIST 33491 Historical Resources Internship can be counted toward the minor.

Advisor-Approved Electives (3 hours)

| | |
|---------------------------|---|
| Advisor-approved elective | 3 |
|---------------------------|---|

Public History and Museum Studies Minor, 23 hours

CIP: 450805

Requirements

Required Courses (14 hours)

| | | |
|------------|-------------------------------------|--------|
| HIST 33320 | Public History in the US | 3 |
| HIST 33444 | Practicum in American Local History | 3 |
| HIST 33491 | Historical Resources Internship | 1 to 6 |
| HIST 33491 | Historical Resources Internship | 1 to 6 |
| POLS 34332 | Principles of Public Administration | 3 |

Note: HIST 33491 should be taken twice; one time for 3 credit hours and one time for 2 credit hours with an archival focus.

Electives (9 hours):

| | |
|--|---|
| Choose one history course 300 level or above | 3 |
|--|---|

Choose two courses from the following:

| | | |
|------------|------------------------------------|---|
| ART 13292 | Introduction to Digital Art Studio | 3 |
| COM 29240 | Principles of Leadership | 3 |
| GEOG 32201 | Maps and Spatial Reasoning | 3 |
| GEOG 32207 | GPS Fundamentals | 3 |
| GEOG 32362 | Web Mapping | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |
| GEOG 32465 | Introduction to Customized GIS | 3 |
| HIST 33302 | Digital Humanities | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |
| MKTG 55332 | Promotion | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |

| | | |
|------------|---|---|
| MMED 20333 | Social Media Strategies | 3 |
| REC 45445 | Natural Resource History and Interpretation | 3 |
| REC 45547 | Grant Writing | 3 |

Political Science / 34

Political Science Comprehensive Major, 66 hours: B.S.—No Minor Required

CIP: 451001

Areas of Emphasis: American Institutions, Global Affairs, Public Administration

Political Science: American Institutions Emphasis

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Political Science Foundations (27 hours)

| | | |
|------------|---|--------|
| POLS 34102 | Introduction to American Government and Politics✓ | 3 |
| MATH 17114 | General Statistics✓ | 3 |
| POLS 34210 | Exploring Politics | 3 |
| POLS 34215 | Introduction to Political Theory | 3 |
| POLS 34307 | International Relations | 3 |
| POLS 34308 | Public Policy | 3 |
| POLS 34310 | Comparative Government✓ | 3 |
| POLS 34495 | Internship in Political Science OR | 1 to 6 |
| POLS 34340 | Law and Politics | 3 |
| POLS 34497 | Research Seminar in Political Science | 3 |

POLS 34102 and MATH 17114: These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

POLS 34495, if chosen, should be taken for at least 3 hours, and it is limited to 3 hours credited to Political Science Foundations and 3 hours credited towards Electives.

POLS 34497 Research Seminar may only be taken for credit after the completion of 90 credit hours. It may be repeated for credit with a different topic after the Political Science Foundations requirement has been met.

American Institution Foundations (18 hours)

| | | |
|------------|---|---|
| POLS 34301 | Elections, Parties, and Interest Groups AND/OR | 3 |
| POLS 34302 | The American Presidency AND/OR | 3 |
| POLS 34303 | The American Congress | 3 |
| POLS 34405 | American Political Thought OR | 3 |
| POLS 34459 | Justice: Theories and Applications | 3 |
| POLS 34321 | American Federalism | 3 |
| POLS 34436 | Constitutional Law | 3 |
| POLS 34438 | Civil Liberties | 3 |

Students must take two out of three (6 hours) of the following courses: POLS 34301 Elections, Parties, and Interest Groups, POLS 34302 American Presidency, and POLS 34303 American Congress). Students must choose to take either POLS 34405 American Political Thought or 34459

Justice: Theories and Applications. Courses not taken to fulfill the American Institutions Foundations may be taken as Political Science Electives.

Political Science Electives (15 hours)

Choose 15 hours from the following courses:

| | | |
|------------|---|--------|
| POLS 34105 | The African World | 3 |
| POLS 34205 | Introduction to Criminal Justice | 3 |
| POLS 34301 | Elections, Parties, and Interest Groups | 3 |
| POLS 34302 | The American Presidency | 3 |
| POLS 34303 | The American Congress | 3 |
| POLS 34311 | Practicum in Political Science | 1 to 2 |
| POLS 34332 | Principles of Public Administration | 3 |
| POLS 34338 | Rights of the Accused | 3 |
| POLS 34340 | Law and Politics | 3 |
| POLS 34364 | Criminal Law and Procedure | 3 |
| POLS 34403 | The World of Political Ideas | 3 |
| POLS 34405 | American Political Thought | 3 |
| POLS 34412 | Race, Ethnicity, and Politics | 3 |
| POLS 34421 | International Conflict Resolution✓ | 3 |
| POLS 34422 | Revolution and Social Movements | 3 |
| POLS 34435 | Public Management | 3 |
| POLS 34436 | Constitutional Law | 3 |
| POLS 34438 | Civil Liberties | 3 |
| POLS 34459 | Justice: Theories and Applications | 3 |
| POLS 34462 | Comparative Political Systems and Behaviors | 3 |
| POLS 34465 | Substantive Policy | 3 |
| POLS 34495 | Internship in Political Science | 1 to 6 |
| POLS 34497 | Research Seminar in Political Science | 3 |
| POLS 34498 | Special Topics | 1 to 3 |
| POLS 34499 | Independent Study in Political Science | 1 to 3 |

POLS 34492 Research in Diversity, Equity, and Inclusion Studies, POLS 34493 Internship in Diversity, Equity, and Inclusion Studies, and POLS 34496 Internship in Political Science-non-major/minor credit may not be taken as a Political Science Elective.

POLS 34105 African World cannot be taken to fulfill NW Core requirements if taken for the major.

POLS 34462 Comparative Political Systems and Behaviors and POLS 34465 Substantive Policy may be taken for repeat credit with different topics.

POLS 34495 Internship in Political Science is limited to three hours in the Political Foundations requirement and three hours in the Political Science Electives.

POLS 34497 Research Seminar in Political Science may be taken for repeat credit with a different topic after it has been taken to fulfill the Political Science Foundations requirement and only after the completion of 90 hours.

Advisor-Approved Electives Pertaining to American Institutions (6 hours)

These electives must be approved at the discretion of the faculty advisor and must pertain to the study of American political institutions or to the study of political theory, law, or legal studies. Some courses selected may have prerequisite requirements that must be completed and may not count towards electives in the degree.

Advisor-approved electives

6

Free electives as needed to reach minimum 120 graduation hours

Political Science: Global Affairs Emphasis

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)**Political Science Foundations (27 hours)**

| | | |
|------------|---|--------|
| POLS 34102 | Introduction to American Government and Politics✓ | 3 |
| MATH 17114 | General Statistics✓ | 3 |
| POLS 34210 | Exploring Politics | 3 |
| POLS 34215 | Introduction to Political Theory | 3 |
| POLS 34307 | International Relations | 3 |
| POLS 34308 | Public Policy | 3 |
| POLS 34310 | Comparative Government✓ | 3 |
| POLS 34340 | Law and Politics OR | 3 |
| POLS 34495 | Internship in Political Science | 1 to 6 |

POLS 34497 Research Seminar in Political Science 3
 POLS 34102 and MATH 17114: These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

POLS 34495, if chosen, should be taken for at least 3 hours, and is limited to 3 hours credited to Foundations and 3 hours credited towards Electives.

POLS 34497 Research Seminar may only be taken for credit after the completion of 90 credit hours. It may be repeated for credit with a different topic after the Political Science Foundations requirement has been met.

Global Affairs Foundations (18 hours)

| | | |
|------------|---|---|
| POLS 34105 | The African World | 3 |
| POLS 34403 | The World of Political Ideas | 3 |
| POLS 34421 | International Conflict Resolution✓ | 3 |
| POLS 34422 | Revolution and Social Movements | 3 |
| POLS 34462 | Comparative Political Systems and Behaviors | 3 |

POLS 34105 African World cannot be taken to fulfill NW Core requirements if taken for the major.

POLS 34462 Comparative Political Systems and Behaviors must be taken two times for 6 hours of credit with different topics in the Global Affairs Foundations requirement.

Political Science Electives (15 hours)

Chose 15 hours from the following:

| | | |
|------------|---|--------|
| POLS 34205 | Introduction to Criminal Justice | 3 |
| POLS 34301 | Elections, Parties, and Interest Groups | 3 |
| POLS 34302 | The American Presidency | 3 |
| POLS 34303 | The American Congress | 3 |
| POLS 34311 | Practicum in Political Science | 1 to 2 |
| POLS 34321 | American Federalism | 3 |
| POLS 34332 | Principles of Public Administration | 3 |
| POLS 34338 | Rights of the Accused | 3 |
| POLS 34340 | Law and Politics | 3 |
| POLS 34364 | Criminal Law and Procedure | 3 |
| POLS 34405 | American Political Thought | 3 |
| POLS 34412 | Race, Ethnicity, and Politics | 3 |
| POLS 34435 | Public Management | 3 |
| POLS 34436 | Constitutional Law | 3 |
| POLS 34438 | Civil Liberties | 3 |
| POLS 34459 | Justice: Theories and Applications | 3 |
| POLS 34462 | Comparative Political Systems and Behaviors | 3 |
| POLS 34465 | Substantive Policy | 3 |
| POLS 34495 | Internship in Political Science | 1 to 6 |
| POLS 34497 | Research Seminar in Political Science | 3 |
| POLS 34498 | Special Topics | 1 to 3 |

POLS 34499 Independent Study in Political Science 1 to 3
 POLS 34492 *Research in Diversity, Equity, and Inclusion Studies*, POLS 34493 *Internship in Diversity, Equity, and Inclusion Studies*, and POLS 34496 *Internship in Political Science-non-major/minor* credit may not be taken as a Political Science Elective.

POLS 34462 *Comparative Political Systems* may be taken for repeat credit with a different topic in addition to the six hours required in the *Global Affairs Foundations*.

POLS 34465 *Substantive Policy* may be taken for repeat credit with a different topic.

POLS 34495 *Internship in Political Science* is limited to three hours in the *Political Foundations* requirement and three hours in the *Political Science Electives*.

POLS 34497 *Research Seminar* may be taken for repeat credit with a different topic after fulfilling the *Political Foundations* requirement and completion of 90 hours of credit.

Approved Electives (6 hours)

Choose 6 hours from the following list:

| | | |
|------------|---|---------|
| ECON 52362 | Comparative Economic Systems | 3 |
| ENGL 10340 | Cultural Studies in Literature | 3 |
| GEOG 32221 | Economic Globalization | 3 |
| GEOG 32441 | Geography of Europe | 3 |
| GEOG 32442 | Geography of Asia | 3 |
| GEOG 32443 | Geography of the Middle East | 3 |
| GEOG 32444 | Geography of Africa | 3 |
| GEOG 32445 | Geography of Latin America | 3 |
| GEOG 32450 | Forced Migration and Displacement | 3 |
| GEOG 32521 | Geopolitics | 3 |
| HIST 33305 | The Ancient World | 3 |
| HIST 33306 | The Modern World | 3 |
| HIST 33310 | France Since Louis XIV | 3 |
| HIST 33370 | History of the Near and Middle East | 3 |
| HIST 33375 | History of Latin America | 3 |
| HIST 33380 | Humanitarian Crises of the Modern World | 3 |
| HIST 33386 | The Pacific Rim | 3 |
| HIST 33389 | Early Modern Europe: The West Meets the World | 3 |
| HIST 33503 | The Middle Ages | 3 |
| HIST 33510 | History of Russia | 3 |
| HIST 33521 | History of Germany Since 1648 | 3 |
| INST 80299 | International Study-Study Abroad (Country) | 3 to 15 |
| MKTG 55437 | International Marketing | 3 |
| MKTG 55438 | International Business | 3 |
| | Any course in foreign language | 3 |

Prerequisites for any electives must be met and do not count towards hours in the degree unless otherwise specified.

Free electives as needed to reach minimum 120 graduation hours

Political Science: Public Administration Emphasis

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Political Science Foundations (27 hours)

| | | |
|------------|---|---|
| POLS 34102 | Introduction to American Government and Politics✓ | 3 |
| MATH 17114 | General Statistics✓ | 3 |
| POLS 34210 | Exploring Politics | 3 |
| POLS 34215 | Introduction to Political Theory | 3 |
| POLS 34307 | International Relations | 3 |
| POLS 34308 | Public Policy | 3 |
| POLS 34310 | Comparative Government✓ | 3 |

| | | |
|------------|---------------------------------------|--------|
| POLS 34340 | Law and Politics OR | 3 |
| POLS 34495 | Internship in Political Science | 1 to 6 |
| POLS 34497 | Research Seminar in Political Science | 3 |

POLS 34102 and MATH 17114: These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

POLS 34495, if chosen, should be taken for at least 3 hours, and is limited to 3 hours credited to Foundations and 3 hours credited towards Electives.

POLS 34497 Research Seminar may be taken for repeat credit with a different topic after fulfilling the Political Foundations requirement and completion of 90 hours of credit.

Public Administration Foundations (18 hours)

| | | |
|------------|-------------------------------------|---|
| POLS 34321 | American Federalism | 3 |
| POLS 34332 | Principles of Public Administration | 3 |
| POLS 34435 | Public Management | 3 |
| POLS 34465 | Substantive Policy | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MGMT 54316 | Organizational Behavior and Theory | 3 |

Political Science Electives (15 hours)

Choose 15 hours from the following list.

| | | |
|------------|---|--------|
| POLS 34105 | The African World | 3 |
| POLS 34205 | Introduction to Criminal Justice | 3 |
| POLS 34301 | Elections, Parties, and Interest Groups | 3 |
| POLS 34302 | The American Presidency | 3 |
| POLS 34303 | The American Congress | 3 |
| POLS 34311 | Practicum in Political Science | 1 to 2 |
| POLS 34338 | Rights of the Accused | 3 |
| POLS 34340 | Law and Politics | 3 |
| POLS 34364 | Criminal Law and Procedure | 3 |
| POLS 34403 | The World of Political Ideas | 3 |
| POLS 34405 | American Political Thought | 3 |
| POLS 34412 | Race, Ethnicity, and Politics | 3 |
| POLS 34421 | International Conflict Resolution✓ | 3 |
| POLS 34422 | Revolution and Social Movements | 3 |
| POLS 34436 | Constitutional Law | 3 |
| POLS 34438 | Civil Liberties | 3 |
| POLS 34459 | Justice: Theories and Applications | 3 |
| POLS 34462 | Comparative Political Systems and Behaviors | 3 |
| POLS 34465 | Substantive Policy | 3 |
| POLS 34495 | Internship in Political Science | 1 to 6 |
| POLS 34497 | Research Seminar in Political Science | 3 |
| POLS 34498 | Special Topics | 1 to 3 |
| POLS 34499 | Independent Study in Political Science | 1 to 3 |

POLS 34492 Research in Diversity, Equity, and Inclusion Studies, POLS 34493 Internship in Diversity, Equity, and Inclusion Studies, and POLS 34496 Internship in Political Science-non-major/minor credit may not be taken as a Political Science Elective.

POLS 34462 Comparative Political Systems may be taken for repeat credit with a different topic in addition to the nine hours required in the Global Affairs Foundations.

POLS 34465 Substantive Policy may be taken for repeat credit with a different topic.

POLS 34495 Internship in Political Science is limited to three hours in the Political Foundations requirement and three hours in the Political Science Electives.

POLS 34497 Research Seminar may be taken for repeat credit with a different topic after fulfilling the Political Foundations requirement and completion of 90 hours of credit.

Approved Electives (6 hours)

Choose 6 hours from the following list:

| | | |
|------------|--------------------------------|---|
| COM 29432 | Organizational Communication | 3 |
| ECON 52130 | Survey of Economics✓ | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| EDM 36450 | Homeland Security and Defense | 3 |
| MILS 42126 | Basic Leadership | 1 |
| PSYC 08204 | Introduction to Human Services | 3 |
| PSYC 08313 | Psychology at Work | 3 |

Prerequisites in courses must be met and may not count towards hours in the disciplinary degree.

Free electives as needed to reach minimum 120 graduation hours

Political Science Major, 36 hours: B.A.—Minor Required

CIP: 451001

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

B.A. Modern Language Requirement (9 hours)

Modern Language 9

All 9 hours must be in the same language.

Political Science Foundations (27 hours)

| | | |
|------------|---|---|
| POLS 34102 | Introduction to American Government and Politics✓ | 3 |
| MATH 17114 | General Statistics✓ | 3 |
| POLS 34210 | Exploring Politics | 3 |
| POLS 34215 | Introduction to Political Theory | 3 |
| POLS 34307 | International Relations | 3 |
| POLS 34308 | Public Policy | 3 |
| POLS 34310 | Comparative Politics | 3 |

POLS 34340 Law and Politics 3
OR

POLS 34495 Internship in Political Science 1 to 6

POLS 34497 Research Seminar in Political Science 3

POLS 34102 and MATH 17114: These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

POLS 34495, if chosen, should be taken for at least 3 hours, and it is limited to 3 hours credited to Political Science Foundations and 3 hours credited towards Electives.

POLS 34497 Research Seminar may only be taken for credit after the completion of 90 credit hours. It may be repeated for credit with a different topic after the Political Science Foundations requirement has been met.

Political Science Electives (9 hours)

Students must choose 9 hours from the following courses.

| | | |
|------------|----------------------------------|---|
| POLS 34105 | The African World | 3 |
| POLS 34205 | Introduction to Criminal Justice | 3 |

| | | |
|------------|---|--------|
| POLS 34301 | Elections, Parties, and Interest Groups | 3 |
| POLS 34302 | The American Presidency | 3 |
| POLS 34303 | The American Congress | 3 |
| POLS 34311 | Practicum in Political Science | 1 to 2 |
| POLS 34321 | American Federalism | 3 |
| POLS 34332 | Principles of Public Administration | 3 |
| POLS 34338 | Rights of the Accused | 3 |
| POLS 34340 | Law and Politics | 3 |
| POLS 34364 | Criminal Law and Procedure | 3 |
| POLS 34403 | The World of Political Ideas | 3 |
| POLS 34405 | American Political Thought | 3 |
| POLS 34412 | Race, Ethnicity, and Politics | 3 |
| POLS 34421 | International Conflict Resolution✓ | 3 |
| POLS 34422 | Revolution and Social Movements | 3 |
| POLS 34435 | Public Management | 3 |
| POLS 34436 | Constitutional Law | 3 |
| POLS 34438 | Civil Liberties | 3 |
| POLS 34459 | Justice: Theories and Applications | 3 |
| POLS 34462 | Comparative Political Systems and Behaviors | 3 |
| POLS 34465 | Substantive Policy | 3 |
| POLS 34495 | Internship in Political Science | 1 to 6 |
| POLS 34497 | Research Seminar in Political Science | 3 |
| POLS 34498 | Special Topics | 1 to 3 |
| POLS 34499 | Independent Study in Political Science | 1 to 3 |

POLS 34492 *Research in Diversity, Equity, and Inclusion Studies*, POLS 34493 *Internship in Diversity, Equity, and Inclusion Studies*, and POLS 34496 *Internship in Political Science-non-major/minor credit may not be taken as a Political Science Elective.*

POLS 34105 *African World cannot be used to fulfill a NW Core requirement if taken for the major.*

POLS 34462 *Comparative Political Systems may be taken for repeat credit with a different topic in addition to the nine hours required in the Global Affairs Foundations.*

POLS 34465 *Substantive Policy may be taken for repeat credit with a different topic.*

POLS 34495 *Internship in Political Science is limited to three hours in the Political Foundations requirement and three hours in the Political Science Electives.*

POLS 34497 *Research Seminar may be taken for repeat credit with a different topic after fulfilling the Political Foundations requirement and completion of 90 hours of credit.*

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Political Science Major, 45 hours: B.S.—Minor Required

CIP: 451001

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Political Science Foundations (27 hours)

| | | |
|------------|---|---|
| POLS 34102 | Introduction to American Government and Politics✓ | 3 |
| MATH 17114 | General Statistics✓ | 3 |
| POLS 34210 | Exploring Politics | 3 |
| POLS 34215 | Introduction to Political Theory | 3 |
| POLS 34307 | International Relations | 3 |
| POLS 34308 | Public Policy | 3 |
| POLS 34310 | Comparative Politics | 3 |

| | | |
|------------|---------------------------------------|--------|
| POLS 34340 | Law and Politics | 3 |
| | OR | |
| POLS 34495 | Internship in Political Science | 1 to 6 |
| POLS 34497 | Research Seminar in Political Science | 3 |

POLS 34102 and MATH 17114 fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

POLS 34495 is limited to no more than 6 hours credited to the degree program.

POLS 34495, if chosen, must be taken for at 3 hours to complete the Political Foundations requirement.

Political Science Electives (18 hours)

Choose 18 hours from the following courses.

| | | |
|------------|---|--------|
| POLS 34105 | The African World | 3 |
| POLS 34205 | Introduction to Criminal Justice | 3 |
| POLS 34301 | Elections, Parties, and Interest Groups | 3 |
| POLS 34302 | The American Presidency | 3 |
| POLS 34303 | The American Congress | 3 |
| POLS 34311 | Practicum in Political Science | 1 to 2 |
| POLS 34321 | American Federalism | 3 |
| POLS 34332 | Principles of Public Administration | 3 |
| POLS 34338 | Rights of the Accused | 3 |
| POLS 34340 | Law and Politics | 3 |
| POLS 34364 | Criminal Law and Procedure | 3 |
| POLS 34403 | The World of Political Ideas | 3 |
| POLS 34405 | American Political Thought | 3 |
| POLS 34412 | Race, Ethnicity, and Politics | 3 |
| POLS 34421 | International Conflict Resolution/ | 3 |
| POLS 34422 | Revolution and Social Movements | 3 |
| POLS 34435 | Public Management | 3 |
| POLS 34436 | Constitutional Law | 3 |
| POLS 34438 | Civil Liberties | 3 |
| POLS 34459 | Justice: Theories and Applications | 3 |
| POLS 34462 | Comparative Political Systems and Behaviors | 3 |
| POLS 34465 | Substantive Policy | 3 |
| POLS 34495 | Internship in Political Science | 1 to 6 |
| POLS 34497 | Research Seminar in Political Science | 3 |
| POLS 34498 | Special Topics | 1 to 3 |
| POLS 34499 | Independent Study in Political Science | 1 to 3 |

POLS 34492 Research in Diversity, Equity, and Inclusion Studies, POLS 34493 Internship in Diversity, Equity, and Inclusion Studies, and POLS 34496 Internship in Political Science-non-major/minor credit may not be taken as a Political Science Elective.

POLS 34105 African World cannot be used to fulfill a NW Core requirement if taken for the major.

POLS 34462 Comparative Political Systems may be taken for repeat credit with a different topic in addition to the nine hours required in the Global Affairs Foundations.

POLS 34465 Substantive Policy may be taken for repeat credit with a different topic.

POLS 34495 Internship in Political Science is limited to three hours in the Political Foundations requirement and three hours in the Political Science Electives.

POLS 34497 Research Seminar may be taken for repeat credit with a different topic after fulfilling the Political Foundations requirement and completion of 90 hours of credit.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Political Science Minor, 24 hours

CIP: 451001

Requirements

Political Science Foundations (12 hours)

| | | |
|------------|----------------------------------|---|
| POLS 34210 | Exploring Politics | 3 |
| POLS 34215 | Introduction to Political Theory | 3 |
| POLS 34307 | International Relations OR | 3 |
| POLS 34310 | Comparative Politics | 3 |
| POLS 34308 | Public Policy OR | 3 |
| POLS 34340 | Law and Politics | 3 |

Political Science Electives (12 hours)

Choose 12 hours from the following courses.

| | | |
|------------|---|--------|
| POLS 34105 | The African World | 3 |
| POLS 34205 | Introduction to Criminal Justice | 3 |
| POLS 34301 | Elections, Parties, and Interest Groups | 3 |
| POLS 34302 | The American Presidency | 3 |
| POLS 34303 | The American Congress | 3 |
| POLS 34307 | International Relations | 3 |
| POLS 34308 | Public Policy | 3 |
| POLS 34310 | Comparative Politics | 3 |
| POLS 34321 | American Federalism | 3 |
| POLS 34332 | Principles of Public Administration | 3 |
| POLS 34338 | Rights of the Accused | 3 |
| POLS 34364 | Criminal Law and Procedure | 3 |
| POLS 34340 | Law and Politics | 3 |
| POLS 34403 | The World of Political Ideas | 3 |
| POLS 34405 | American Political Thought | 3 |
| POLS 34412 | Race, Ethnicity, and Politics | 3 |
| POLS 34421 | International Conflict Resolution✓ | 3 |
| POLS 34422 | Revolution and Social Movements | 3 |
| POLS 34435 | Public Management | 3 |
| POLS 34436 | Constitutional Law | 3 |
| POLS 34438 | Civil Liberties | 3 |
| POLS 34459 | Justice: Theories and Applications | 3 |
| POLS 34462 | Comparative Political Systems and Behaviors | 3 |
| POLS 34465 | Substantive Policy | 3 |
| POLS 34495 | Internship in Political Science | 1 to 6 |
| POLS 34497 | Research Seminar in Political Science | 3 |
| POLS 34498 | Special Topics | 1 to 3 |
| POLS 34499 | Independent Study in Political Science | 1 to 3 |

POLS 34492 Research in Diversity, Equity, and Inclusion Studies, POLS 34493 Internship in Diversity, Equity, and Inclusion Studies, and POLS 34496 Internship in Political Science-non-major/minor credit may not be taken as a Political Science Elective.

POLS 34105 African World cannot be used to fulfill a NW Core requirement if taken for the major.

POLS 34462 Comparative Political Systems may be taken for repeat credit with a different topic and POLS 34465 Substantive Policy may be taken for repeat credit with a different topic.

POLS 34495 Internship in Political Science is limited to three hours in the Political Foundations requirement and three hours in the Political Science Electives.

POLS 34497 Research Seminar may be taken for repeat credit with a different topic after the completion of 90 hours of credit.

Public Administration Minor, 27 hours

CIP: 440401

Requirements

Public Administration Foundations (21 hours)

| | | |
|------------|-------------------------------------|---|
| POLS 34308 | Public Policy | 3 |
| POLS 34321 | American Federalism | 3 |
| POLS 34332 | Principles of Public Administration | 3 |
| POLS 34435 | Public Management | 3 |
| POLS 34465 | Substantive Policy | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MGMT 54316 | Organizational Behavior and Theory | 3 |

Political Science Electives (6 hours)

Choose 6 hours from the following courses:

| | | |
|------------|---|--------|
| POLS 34105 | The African World | 3 |
| POLS 34205 | Introduction to Criminal Justice | 3 |
| POLS 34210 | Exploring Politics | 3 |
| POLS 34215 | Introduction to Political Theory | 3 |
| POLS 34301 | Elections, Parties, and Interest Groups | 3 |
| POLS 34302 | The American Presidency | 3 |
| POLS 34303 | The American Congress | 3 |
| POLS 34307 | International Relations | 3 |
| POLS 34310 | Comparative Politics | 3 |
| POLS 34311 | Practicum in Political Science | 1 to 2 |
| POLS 34338 | Rights of the Accused | 3 |
| POLS 34340 | Law and Politics | 3 |
| POLS 34364 | Criminal Law and Procedure | 3 |
| POLS 34403 | The World of Political Ideas | 3 |
| POLS 34405 | American Political Thought | 3 |
| POLS 34412 | Race, Ethnicity, and Politics | 3 |
| POLS 34421 | International Conflict Resolution/ | 3 |
| POLS 34436 | Constitutional Law | 3 |
| POLS 34422 | Revolution and Social Movements | 3 |
| POLS 34438 | Civil Liberties | 3 |
| POLS 34459 | Justice: Theories and Applications | 3 |
| POLS 34462 | Comparative Political Systems and Behaviors | 3 |
| POLS 34465 | Substantive Policy | 3 |
| POLS 34495 | Internship in Political Science | 1 to 6 |
| POLS 34497 | Research Seminar in Political Science | 3 |
| POLS 34498 | Special Topics | 1 to 3 |
| POLS 34499 | Independent Study in Political Science | 1 to 3 |

POLS 34492 Research in Diversity, Equity, and Inclusion Studies, POLS 34493 Internship in Diversity, Equity, and Inclusion Studies, and POLS 34496 Internship in Political Science-non-major/minor credit may not be taken as a Political Science Elective.

POLS 34105 African World cannot be used to fulfill a NW Core requirement if taken for the major.

POLS 34462 Comparative Political Systems may be taken for repeat credit with a different topic.

POLS 34465 Substantive Policy may be taken for repeat credit with a different topic.

POLS 34495 Internship in Political Science is limited to three hours in the Political Foundations requirement and three hours in the Political Science Electives.

POLS 34497 *Research Seminar* may be taken for repeat credit with a different topic after the completion of 90 hours of credit.

International Studies Minor, 24 hours

CIP: 450901

Requirements

International Studies Foundations (12 hours)

| | | |
|------------|-------------------------|---|
| POLS 34307 | International Relations | 3 |
| POLS 34310 | Comparative Politics | 3 |
| | Modern Language | 6 |

(Modern Language Requirement: Minimum of 3 hours must be 200-level or above; all 6 hours must be in the same language)

Regional Geography Course (3 hours)

Elective sequences should be chosen in consultation with the International Studies advisor. Choose one course from the following:

| | | |
|------------|----------------------------|---|
| GEOG 32340 | Geography of North America | 3 |
| GEOG 32441 | Geography of Europe | 3 |
| GEOG 32442 | Geography of Asia | 3 |
| GEOG 32444 | Geography of Africa | 3 |
| GEOG 32445 | Geography of Latin America | 3 |

Non-Western History Course (3 hours)

Elective sequences should be chosen in consultation with the International Studies advisor. Choose one course from the following:

| | | |
|------------|-------------------------------------|---|
| HIST 33370 | History of the Near and Middle East | 3 |
| HIST 33375 | History of Latin America | 3 |
| HIST 33386 | The Pacific Rim | 3 |

Electives (6 hours)

Choose 6 hours from the following courses:

| | | |
|------------|---|---|
| ART 13399 | International Studies in Studio | 3 |
| ECON 52450 | International Economics | 3 |
| GEOG 32521 | Geopolitics | 3 |
| MKTG 55438 | International Business | 3 |
| POLS 34421 | International Conflict Resolution | 3 |
| POLS 34422 | Revolution and Social Movements | 3 |
| POLS 34462 | Comparative Political Systems and Behaviors | 3 |
| | Advisor-approved electives | |

POLS 34462 *Comparative Political Systems* may be taken for repeat credit with a different topic.

Emergency and Disaster Management / 36

Emergency and Disaster Management Major, 37 hours: B.S.—Minor Required

CIP: 430302

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Core Requirements (28 hours)

| | | |
|------------|---------------------|---|
| PSYC 08345 | Disaster Psychology | 3 |
|------------|---------------------|---|

| | | |
|------------|--|--------|
| COM 29420 | Crisis Communication | 3 |
| GEOG 32370 | Natural Disasters | 3 |
| EDM 36305 | Disaster Response and Recovery | 3 |
| EDM 36306 | Principles of Humanitarian Relief OR | 3 |
| EDM 36402 | Exercise and Simulation Design AND | 1 to 3 |
| EDM 36403 | Operational Leadership in EDM | 1 to 3 |
| EDM 36308 | Emergency Management Planning | 3 |
| EDM 36309 | Vulnerability and Mitigation | 3 |
| EDM 36401 | Professional Development in Emergency and Disaster Management | 1 |
| EDM 36490 | Internship in Emergency and Disaster Management | 1 to 6 |
| EDM 36491 | Field Experience in Emergency and Disaster Management | 1 to 6 |

EDM 36490 Internship in Emergency and Disaster Management and EDM 36491 Field Experience in Emergency and Disaster Management must each be taken for a minimum of 3 credit hours. Any additional hours can be counted toward Advisor-Approved Electives.

Advisor-Approved Electives (9 hours)

Take 9 hours of advisor-approved electives.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Emergency and Disaster Management Minor, 27 hours

CIP: 430302

Requirements

Core Requirements (21 hours)

| | | |
|------------|---|--------|
| COM 29420 | Crisis Communication | 3 |
| EDM 36305 | Disaster Response and Recovery | 3 |
| EDM 36308 | Emergency Management Planning | 3 |
| EDM 36309 | Vulnerability and Mitigation | 3 |
| GEOG 32370 | Natural Disasters | 3 |
| PSYC 08345 | Disaster Psychology | 3 |
| EDM 36306 | Principles of Humanitarian Relief OR | 3 |
| EDM 36402 | Exercise and Simulation Design AND | 1 to 3 |
| EDM 36403 | Operational Leadership in EDM | 1 to 3 |

Advisor Approved Electives (6 hours)

Emergency Services Minor, 24 hours

CIP: 430302

This minor allows students to engage in a wider range of educational opportunities and field experience, and allows Northwest to appropriately transfer academic credits from public safety programs within other colleges and universities.

Requirements

Core Requirements (12 hours)

| | | |
|-----------|--|--------|
| EDM 36305 | Disaster Response and Recovery | 3 |
| EDM 36402 | Exercise and Simulation Design | 1 to 3 |
| EDM 36403 | Operational Leadership in EDM | 1 to 3 |
| EDM 36494 | Field Experience in Emergency Services | 1 to 6 |

A minimum of 6 credit hours of EDM 36494 Field Experience in Emergency Services.

Electives (12 hours)

Select 12 hours from the following list of courses:

| | | |
|------------|--|--------|
| BIOL 04105 | Emergency Medical Dispatcher | 1 |
| BIOL 04108 | Emergency Medical Responder | 2 |
| BIOL 04109 | Emergency Medical Technician-Basic 1 | 3 |
| BIOL 04110 | Emergency Medical Technician-Basic 2 | 3 |
| EDM 36311 | Fire Academy I | 3 |
| EDM 36312 | Fire Academy II | 3 to 6 |
| EDM 36314 | Wilderness First Aid | 1 to 6 |
| | Advisor-approved electives up to 6 hours | 1 to 6 |

International Humanitarian Operations Minor, 24 hours

CIP: 430302

Requirements

Required Courses (21 Hours)

| | | |
|------------|---|---|
| EDM 36306 | Principles of Humanitarian Relief | 3 |
| EDM 36309 | Vulnerability and Mitigation | 3 |
| EDM 36310 | Nonprofit Organizations | 3 |
| GEOG 32450 | Forced Migration and Displacement | 3 |
| HIST 33380 | Humanitarian Crises of the Modern World | 3 |
| POLS 34307 | International Relations | 3 |
| POLS 34421 | International Conflict Resolution✓ | 3 |

Cultural Emphasis Course (3 Hours)

| | |
|---------------------------|---|
| Advisor-approved elective | 3 |
|---------------------------|---|

Military Science / 42

Faculty Liaison to Military Science: Dr. Mark Corson

The Missouri Army National Guard Show Me GOLD (Guard Officer Leadership Development) Program is a pre-Officer Candidate School preparation program. Students may use their Military Science Credits to pursue a Military Science academic minor. GOLD Program students are officer candidates.

Army National Guard GOLD Program

Northwest offers the Guard Officer Leadership Development Program on the Maryville campus. The Show Me GOLD Program is an officer candidate school preparation program resulting in a commission as a second lieutenant in the Army National Guard. Students enlist in the Army National Guard and attend basic and advanced individual training. They are then attached to the Northwest GOLD Detachment where they take military science courses on the Maryville Campus from Army National Guard instructors. Between their junior and senior year, student officer candidates then attend the accelerated National Guard Officer Candidate School where upon completion they are commissioned as second lieutenants in the Army Guard. The students then return to Northwest to complete their degrees. While completing their degrees, the GOLD Lieutenants fulfill their military duties working with the GOLD Program. GOLD Program students may apply their military science coursework toward a minor in Military Science.

GOLD Financial Assistance

The Missouri National Guard pays GOLD officer candidates monthly pay equivalent to monthly drill pay based on the candidate's military pay grade. The Missouri National Guard also has substantial financial assistance for all Guardsmen in the form of the GI Bill and tuition assistance programs.

GOLD Requirements

GOLD officer candidates are already qualified National Guard Soldiers. The GOLD officer instructor determines the required military science courses for each candidate necessary to prepare them for Officer Candidate School. GOLD officer candidates desiring a minor in Military Science must complete the course requirements for the minor listed later in this section.

Financial Assistance

Financial assistance is available through the U.S. Army Scholarship Program. Two- and three-year scholarships are awarded each year to selected students who are enrolled or will enroll in the program. The scholarships provide payment directly to the college for applicable tuition and fees. Each student receives a textbook allowance of \$1,200 annually paid in two increments of \$600. In addition, a tiered monthly tax-free stipend is paid directly to the student for the duration of the scholarship, not to exceed 10 months for each year of the scholarship. These scholarships are available for both undergraduate and graduate students. Non-scholarship contracted cadets in the advanced course also receive the tiered monthly tax-free stipend, not to exceed 10 months per year for two years. Students are furnished free textbooks for military science classes.

The tiered stipend pay is: first year contracted cadets MSI, \$300; second year MSII, \$350; third year MSIII, \$450; and 4th year MSIV, \$500; per month not to exceed 10 months of the year.

Military Science Basic Courses, 22 hours

This curriculum does not lead to a degree by itself, but is intended to complement and be utilized in conjunction with the student's academic degree program. Credits earned in military science courses are applicable toward graduation requirements as general electives.

Requirements

Courses (22 hours)

To remain in good standing in the MO GOLD program, students must complete the following courses:

| | | |
|------------|-----------------------------------|---|
| MILS 42102 | Leadership Practicum I | 2 |
| MILS 42112 | Leadership Practicum II | 2 |
| MILS 42202 | Leadership Practicum III | 2 |
| MILS 42212 | Leadership Practicum IV | 2 |
| MILS 42300 | Leadership and Management I | 3 |
| MILS 42302 | Leadership Practicum V | 2 |
| MILS 42310 | Small Unit Leadership and Tactics | 3 |
| MILS 42312 | Leadership Practicum VI | 2 |
| MILS 42402 | Leadership Practicum VII | 2 |
| MILS 42412 | Leadership Practicum VIII | 2 |

Military Science Minor, 20 hours

CIP: 290101

Requirements

Required Courses (17 hours)

| | | |
|------------|--|---|
| MILS 42116 | Foundations of Officership OR | 1 |
| MILS 42126 | Basic Leadership | 1 |
| MILS 42216 | Individual Leadership Studies | 2 |
| MILS 42226 | Leadership and Teamwork | 2 |
| MILS 42300 | Leadership and Management I | 3 |
| MILS 42310 | Small Unit Leadership and Tactics | 3 |
| MILS 42400 | Leadership and Management II OR | 3 |
| MILS 42410 | Army Management and Organizational Systems | 3 |
| HIST 33350 | American Military History OR | 3 |
| HIST 33323 | The World at War | 3 |

Advisor-Approved Electives (3)

Choose one course from below:

| | | |
|------------|---|---|
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| GEOG 32101 | Introduction to Geography✓ | 3 |
| GEOG 32102 | People and Cultures of the World✓ | 3 |
| GEOG 32521 | Geopolitics | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MGMT 54314 | Human Resource Management | 3 |
| MGMT 54316 | Organizational Behavior and Theory | 3 |
| PHIL 39275 | Professional Ethics✓ | 3 |
| POLS 34102 | Introduction to American Government and Politics✓ | 3 |
| POLS 34421 | International Conflict Resolution✓ | 3 |
| PSYC 08103 | General Psychology✓ | 3 |
| PSYC 08365 | Social Psychology | 3 |
| SOC 35101 | General Sociology✓ | 3 |

Courses used to satisfy a requirement of The Northwest Core may not be used to complete this minor.

Military Science General Information

Military Obligations: Currently an officer candidate who is commissioned through the GOLD program is assigned to a unit within the Missouri National Guard depending on his or her desires and/or the needs of the service at the time of commission.

Class Location: With the exception of a two-week paid annual training, most basic course instruction is presented on campus. Various field exercises are conducted to further enrich students' leadership skills for advanced-course students.

Language, Literature, and Writing Department

(p. 18) **Chairperson:** Robin Gallaher

Faculty: Daniel Biegelson, Kori Binette, Ashley Davis Black, Richard Black, Stancy Bond, Wayne Chandler, Eric Dickey, John Gallaher, Joseph Haughey, Heather Hill, Michael Hobbs, C J (Catherine) Holthaus, Trevor Meyer, Ildiko Olasz, José Palacios Perez, Luke Rolfes, Jenny Rytting, Richard Sonnenmoser, Kenton Wilcox

Statement of Mission

Programs in the Department of Language, Literature, and Writing prepare students for meaningful lives as professionals in a global economy that demands innovative thinking, clear and effective writing, and cultural literacy. Our students and faculty form a close community of scholars who support each others' work, and who grow together in a rich and rigorous liberal arts curriculum. Students emerge from LLW programs able to express themselves creatively and professionally, and to engage with ideas critically and practically.

Degree Programs

The Department of Language, Literature, and Writing offers seven majors, three undergraduate degree programs and five minors.

The 33-hour Bachelor of Arts in English provides a course balance of advanced writing and literature that is excellent preparation for the study of law, business and medicine; for careers in teaching, publishing, writing, advertising and journalism; and for management and other positions requiring interpretive, diagnostic and analytic problem-solving abilities.

The 36-hour Bachelor of Arts in English with an emphasis in Creative Writing provides traditional curriculum of literary study supplemented by foundational coursework in the practice and theory of creative writing.

The 36-hour Bachelor of Science in Writing provides extensive writing practice in a variety of modes and genres. Students will practice writing across the writing studies spectrum, from workplace-oriented writing to literary-creative writing, from professional reports to poems. This degree may lead to graduate or professional study, especially in law and business and in graduate programs that value extensive background in writing. Other students may pursue professional careers editing, writing, translation, publishing, and communications.

The 30-hour Bachelor of Arts in Writing provides extensive writing practice in a variety of modes and genres. Students will practice writing across the writing studies spectrum, from workplace-oriented writing to literary-creative writing, from professional reports to poems. This liberal arts degree in writing may lead to graduate or professional study, especially in law and business and in graduate programs that value an extensive background in writing. Other students may pursue professional careers in editing, writing, translation, publishing, and communications.

The 36-hour Bachelor of Science in Writing with an Emphasis in Professional Writing provides extensive writing practice in a variety of modes and genres, with more extensive study of writing as manifest in different professional contexts. Students will practice writing across the writing studies spectrum, from workplace-oriented writing to literary-creative writing, from professional reports to poems. This degree in writing may lead to graduate or professional study, especially in law and business and in graduate programs that value an extensive background in writing. The emphasis in professional writing has been designed for students interested in coursework and professional careers in technical writing, publishing, communications, and business management.

The 33-hour Bachelor of Arts in Writing with an emphasis in Creative Writing and Publishing provides extensive writing practice in a variety of modes and genres. Students will practice writing across the writing studies spectrum, from workplace-oriented writing to literary-creative writing, from professional reports to poems. This liberal arts degree in writing may lead to graduate or professional study, especially in law and business and in graduate programs

that value an extensive background in writing. The emphasis in creative writing and publishing has been designed for students interested in coursework and professional careers in editing, writing, translation, publishing, and communications.

The 39-hour Bachelor of Science in Education in English and the 57-hour Comprehensive Bachelor of Science in Education in English both provide extensive writing experience, familiarity with the full chronological range of American and British literature, knowledge of traditional and modern grammars, rhetorical theory and history of the English language. Either major, when completed with the requirements of the B.S.Ed. Secondary Program, meets Missouri secondary school English teaching certification standards.

The Bachelor of Arts and Bachelor of Science degrees are available in Spanish. These require 34 hours of study in the discipline. A minor or collateral coursework is required for these majors.

The 34-hour Bachelor of Science in Education degree in Spanish provides preparation for the teaching of the language, and must be completed under the requirements for the B.S.Ed. degree, Elementary/Secondary Program, which meets the Missouri teacher certification standards for the teaching of the target language in grades K-12. A strong literature preparation is encouraged in order for success on the state examination.

The 24-hour Minor in Writing complements any major whose study is enhanced by improved written expression. The minor includes Mass Media electives and a range of advanced-study opportunities in creative writing, technical writing, popular media and language.

The 24-hour Minor in English enhances students' analytic and communicative skills and prepares them for those career fields named above.

The 30-hour Minor in English is an attractive choice for students majoring in another teaching area such as foreign languages, social science, speech, art, or music. This minor offers a balance of writing and literature courses similar to the Bachelor of Arts in English and, when completed with the requirements of the B.S.Ed. degree, Secondary Program, meets Missouri secondary school English teaching certification standards.

The 12-hour Professional Writing Certificate prepares students for the writing they will do in their careers. It offers focused study and practice in the clear and effective written communication that employers demand. It helps students develop essential skills in critical thinking, in audience and subject analysis, and in clear and persuasive presentation of information. It engages students in modes, genres, and approaches of workplace writing. This certificate is a complement to any program, and will benefit students who plan to enter fields where employers will expect them to communicate effectively through writing, including business, public relations, computer sciences, and health sciences.

A minor in Spanish is required to complete 24 hours of study in Languages and to follow a prescribed series of courses. The minor taken under either the B.S.Ed. degree, Elementary/Secondary or Elementary Programs meets Missouri teacher certification degree requirements for a K-9 Spanish endorsement.

An Individualized Language minor (27 hours) allows students to study any language (other than English) through an immersion program outside of the United States. The program of study must be approved by the Department of Language, Literature, and Writing and the Study Abroad Office in advance.

The 12-hour Spanish Certificate Program is designed to offer a certificate to those students who complete a total of 12 hours of coursework in Spanish. The completion of this certificate will recognize an Intermediate High/Advanced Low proficiency in Spanish language as well as oral and written communication skills.

Test-Out Policy

Test-out is available for LANG 14131 (p. 421), LANG 14132 (p. 421), LANG 14141 (p. 422), or LANG 14142 (p. 422). Students should consult with the Languages faculty regarding appropriate test-out level. See the department secretary for further details. Languages credit may be granted

for AP, CLEP or IB exams. See Credit for External Examinations (p. 18), CLEP Subject Examinations (p. 19), and International Baccalaureate Credit (p. 20).

Language Requirement

Students should follow the course sequences and listed prerequisites for language courses. Permission to take a course out of sequence to satisfy the “B.A. Specific Requirement” must be approved in advance by petition to the chair of the department. Contact the department for a petition form.

The nine hours of Modern Language required to graduate with a Bachelor of Arts degree may also be used to satisfy the total required hours for a major or minor in languages. LANG 14141 (p. 422) and LANG 14142 (p. 422) are prerequisite courses; these may be counted toward the Spanish B.A. major, but not for the Spanish B.S., Spanish B.S.Ed., or Spanish minor.

Language courses meeting the Humanities requirement in The Northwest Core may also be counted toward the B.A. degree Language Requirement.

Portfolio Requirement

Successful completion of all non-English modern language degrees requires the presentation of an academic and professional portfolio during the student’s senior year. Immediately upon declaring a major, the student must request a portfolio packet from his/her advisor.

Language Majors

In order to qualify for advanced standing in language, students must (1) not be on academic probation or suspension and (2) have completed six hours of 200-level courses or the equivalent in a language.

English / 10

Writing Major, 36 hours: B.S.—Minor Required

CIP: 231301

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Writing Core Requirements (15 hours)

| | | |
|------------|------------------------------------|---|
| ENGL 10210 | Introduction to Creative Writing | 3 |
| ENGL 10203 | Writing and Rhetoric | 3 |
| ENGL 10315 | Professional and Technical Writing | 3 |
| ENGL 10403 | Studies in Language | 3 |
| | OR | |
| ENGL 10504 | Language and Linguistics | 3 |
| ENGL 10410 | Professional Portfolio Preparation | 3 |

Approved electives (21 hours)

21 hours of writing, literature, and language coursework from approved 300, 400, and 500-level writing courses, literature courses, and 100 and 200-level language courses, with no more than 6 hours from literature courses, no more than 6 hours from language courses, and no more than 3 hours from approved writing coursework in another department.

Approved electives

21

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Writing Major, 30 hours: B.A.—Minor Required

CIP: 231301

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****B.A. Modern Language Requirement (9 hours)**

| | |
|-----------------|---|
| Modern Language | 9 |
|-----------------|---|

All 9 hours must be in the same language.

Writing Core Requirements (15 hours)

| | | |
|------------|--|---|
| ENGL 10210 | Introduction to Creative Writing | 3 |
| ENGL 10203 | Writing and Rhetoric | 3 |
| ENGL 10315 | Professional and Technical Writing | 3 |
| ENGL 10403 | Studies in Language OR | 3 |
| ENGL 10504 | Language and Linguistics | 3 |
| ENGL 10410 | Professional Portfolio Preparation OR | 3 |
| ENGL 10405 | Senior Seminar | 3 |

Literature (3 hours)

Choose ONE course from the following:

| | | |
|------------|---|---|
| ENGL 10233 | American Literature: Beginnings to 1865✓ | 3 |
| ENGL 10234 | American Literature: 1865 to the Present✓ | 3 |
| ENGL 10245 | English Literature: Beowulf through the 18th Century✓ | 3 |
| ENGL 10246 | English Literature: Romantics to the Present✓ | 3 |
| ENGL 10224 | Multiethnic Literature of the United States | 3 |
| ENGL 10226 | Modern and Contemporary World Literature | 3 |
| ENGL 10230 | Foundations of Literary Study | 3 |
| ENGL 10341 | Literature and Film | 3 |
| ENGL 10351 | Science Fiction Literature | 3 |
| ENGL 10372 | Introduction to Shakespeare | 3 |
| ENGL 10520 | Studies in Early British Literature | 3 |
| ENGL 10331 | The Bible and Literature | 3 |
| ENGL 10343 | Survey of Women's Literature | 3 |
| ENGL 10590 | Young Adult Literature | 3 |

Approved electives (12 hours)

Choose 12 hours from the following:

| | | |
|------------|--|--------|
| | An additional course from the Literature list of courses above | 3 |
| ENGL 10312 | Creative Writing: Creative Nonfiction | 3 |
| ENGL 10313 | Creative Writing: Fiction | 3 |
| ENGL 10314 | Creative Writing: Poetry | 3 |
| ENGL 10316 | Creative Writing: Playwriting | 3 |
| ENGL 10322 | Introduction to the Teaching of Writing | 3 |
| ENGL 10380 | Introduction to Writing Center Studies | 1 |
| ENGL 10414 | Approaches to Creative Writing | 3 |
| ENGL 10425 | Knacktive | 3 |
| ENGL 10430 | Digital Literacy | 3 |
| ENGL 10495 | Internship in Writing and Research | 1 to 8 |
| ENGL 10501 | Writing and Pedagogy | 3 |
| ENGL 10512 | Publication Skills | 3 |
| ENGL 10560 | Advanced Creative Writing | 3 |

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Writing Major, Professional Writing Emphasis, 36 hours: B.S.—Minor Required

CIP: 231301

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Writing Core Requirements (15 hours)

| | | |
|------------|------------------------------------|---|
| ENGL 10210 | Introduction to Creative Writing | 3 |
| ENGL 10203 | Writing and Rhetoric | 3 |
| ENGL 10315 | Professional and Technical Writing | 3 |
| ENGL 10403 | Studies in Language OR | 3 |
| ENGL 10504 | Language and Linguistics | 3 |
| ENGL 10410 | Professional Portfolio Preparation | 3 |

Approved Electives (9 hours)

9 hours of writing, literature, and language coursework from approved 300, 400, and 500-level writing courses, literature courses, and 100 and 200-level language courses, with no more than 6 hours from literature courses, no more than 6 hours from language courses, and no more than 3 hours from approved writing coursework in another department.

Approved electives 9

Professional Writing Emphasis (12 hours)

| | | |
|------------|---|--------|
| ENGL 10515 | Advanced Professional and Technical Writing | 3 |
| ENGL 10512 | Publication Skills | 3 |
| ENGL 10495 | Internship in Writing and Research | 1 to 8 |
| ENGL 10430 | Digital Literacy | 3 |

Note: ENGL 10495 should be taken for a minimum of 3 credit hours.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Writing Major, Creative Writing and Publishing Emphasis, 33 hours: B.A.—Minor Required

CIP: 231301

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

B.A. Modern Language Requirement (9 hours)

Modern Language 9

All 9 hours must be in the same language.

Writing Core Requirements (15 hours)

| | | |
|------------|------------------------------------|---|
| ENGL 10210 | Introduction to Creative Writing | 3 |
| ENGL 10203 | Writing and Rhetoric | 3 |
| ENGL 10315 | Professional and Technical Writing | 3 |
| ENGL 10403 | Studies in Language OR | 3 |

| | | |
|------------|--|---|
| ENGL 10504 | Language and Linguistics | 3 |
| ENGL 10410 | Professional Portfolio Preparation OR | 3 |
| ENGL 10405 | Senior Seminar | 3 |

Modern and Contemporary Literature (3 hours)

At least ONE course from the following:

| | | |
|------------|---|---|
| ENGL 10234 | American Literature: 1865 to the Present✓ | 3 |
| ENGL 10246 | English Literature: Romanticism to the Present✓ | 3 |
| ENGL 10224 | Multiethnic Literature of the United States | 3 |
| ENGL 10226 | Modern and Contemporary World Literature | 3 |
| ENGL 10351 | Science Fiction Literature | 3 |
| ENGL 10341 | Literature and Film | 3 |

Literary Traditions (3 hours)

At least ONE course from the following:

| | | |
|------------|---|---|
| ENGL 10230 | Foundations of Literary Study | 3 |
| ENGL 10233 | American Literature: Beginnings to 1865✓ | 3 |
| ENGL 10245 | English Literature: Beowulf through the 18th Century✓ | 3 |
| ENGL 10331 | The Bible and Literature | 3 |
| ENGL 10343 | Survey of Women's Literature | 3 |
| ENGL 10372 | Introduction to Shakespeare | 3 |
| ENGL 10520 | Studies in Early British Literature | 3 |
| ENGL 10590 | Young Adult Literature | 3 |

Creative Writing and Publishing Emphasis (12 hours)

Choose 12 hours from the lists below.

At least ONE of the courses from the following:

| | | |
|------------|------------------------------------|--------|
| ENGL 10425 | Knacktive | 3 |
| ENGL 10495 | Internship in Writing and Research | 1 to 8 |
| ENGL 10512 | Publication Skills | 3 |

Note: ENGL 10495, if chosen, should be taken for a minimum of 3 credit hours. On-campus internship experiences are available, by application, with Greentower Press/The Laurel Review. Off-campus internships may also satisfy this requirement.

At least THREE courses from the following:

| | | |
|------------|---------------------------------------|---|
| ENGL 10312 | Creative Writing: Creative Nonfiction | 3 |
| ENGL 10313 | Creative Writing: Fiction | 3 |
| ENGL 10314 | Creative Writing: Poetry | 3 |
| ENGL 10316 | Creative Writing: Playwriting | 3 |
| ENGL 10414 | Approaches to Creative Writing | 3 |
| ENGL 10560 | Advanced Creative Writing | 3 |

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours**English Core Requirements (18 hours)****Requirements****Courses**

| | | |
|------------|---|---|
| ENGL 10233 | American Literature: Beginnings to 1865✓ | 3 |
| ENGL 10234 | American Literature: 1865 to the Present✓ | 3 |
| ENGL 10245 | English Literature: Beowulf through the 18th Century✓ | 3 |
| ENGL 10246 | English Literature: Romanticism to the Present✓ | 3 |
| ENGL 10372 | Introduction to Shakespeare | 3 |
| ENGL 10405 | Senior Seminar | 3 |

English Major, 33 hours: B.A.—Minor Required

CIP: 230101

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****B.A. Modern Language Requirement (9 hours)**

Modern Language

9

All 9 hours must be in the same language.

English Core Requirements (18 hours)

| | | |
|------------|---|---|
| ENGL 10233 | American Literature: Beginnings to 1865✓ | 3 |
| ENGL 10234 | American Literature: 1865 to the Present✓ | 3 |
| ENGL 10245 | English Literature: Beowulf through the 18th Century✓ | 3 |
| ENGL 10246 | English Literature: Romantics to the Present✓ | 3 |
| ENGL 10372 | Introduction to Shakespeare | 3 |
| ENGL 10405 | Senior Seminar | 3 |

Required Course (3 hours)

| | | |
|------------|-------------------------------|---|
| ENGL 10230 | Foundations of Literary Study | 3 |
|------------|-------------------------------|---|

One course from (3 hours):

| | | |
|------------|---------------------------------------|---|
| ENGL 10203 | Writing and Rhetoric | 3 |
| ENGL 10312 | Creative Writing: Creative Nonfiction | 3 |
| ENGL 10313 | Creative Writing: Fiction | 3 |
| ENGL 10314 | Creative Writing: Poetry | 3 |
| ENGL 10315 | Professional and Technical Writing | 3 |
| ENGL 10316 | Creative Writing: Playwriting | 3 |

Approved electives to total 33 hours (9 hours):

Approved electives

9

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours**English Major, Creative Writing Emphasis, 36 hours: B.A.—Minor Required**

CIP: 230101

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****B.A. Modern Language Requirement (9 hours)**

Modern Language

9

All 9 hours must be in the same language.

English Core Requirements (18 hours)

| | | |
|------------|---|---|
| ENGL 10233 | American Literature: Beginnings to 1865✓ | 3 |
| ENGL 10234 | American Literature: 1865 to the Present✓ | 3 |
| ENGL 10245 | English Literature: Beowulf through the 18th Century✓ | 3 |
| ENGL 10246 | English Literature: Romantics to the Present✓ | 3 |
| ENGL 10372 | Introduction to Shakespeare | 3 |
| ENGL 10405 | Senior Seminar | 3 |

Required Course (3 hours)

| | | |
|------------|-------------------------------|---|
| ENGL 10230 | Foundations of Literary Study | 3 |
|------------|-------------------------------|---|

Modern and Contemporary Literature (3 hours)

At least ONE course from the following:

| | | |
|------------|---|---|
| ENGL 10224 | Multiethnic Literature of the United States | 3 |
| ENGL 10226 | Modern and Contemporary World Literature | 3 |
| ENGL 10351 | Science Fiction Literature | 3 |
| ENGL 10341 | Literature and Film | 3 |

Literary Traditions (3 hours)

At least ONE course from the following:

| | | |
|------------|-------------------------------------|---|
| ENGL 10331 | The Bible and Literature | 3 |
| ENGL 10343 | Survey of Women's Literature | 3 |
| ENGL 10520 | Studies in Early British Literature | 3 |
| ENGL 10590 | Young Adult Literature | 3 |

Creative Writing Emphasis (9 hours)

At least THREE courses from the following for a total of at least 9 hours:

| | | |
|------------|---------------------------------------|--------|
| ENGL 10210 | Introduction to Creative Writing | 3 |
| ENGL 10312 | Creative Writing: Creative Nonfiction | 3 |
| ENGL 10313 | Creative Writing: Fiction | 3 |
| ENGL 10314 | Creative Writing: Poetry | 3 |
| ENGL 10316 | Creative Writing: Playwriting | 3 |
| ENGL 10414 | Approaches to Creative Writing | 3 |
| ENGL 10495 | Internship in Writing and Research | 1 to 8 |
| ENGL 10560 | Advanced Creative Writing | 3 |

Note: ENGL 10495, if chosen, should be taken for a minimum of 3 credit hours. On-campus internship experiences are available, by application, with Greentower Press/The Laurel Review. Off-campus internships may also satisfy this requirement.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

English Major, 39 hours: B.S.Ed.—Minor Required

CIP: 131305

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (18 hours)

| | | |
|------------|---|---|
| ENGL 10230 | Foundations of Literary Study | 3 |
| ENGL 10321 | Teaching Reading in Middle and Secondary English Classrooms | 3 |
| ENGL 10322 | Introduction to the Teaching of Writing | 3 |
| ENGL 10404 | Schoolhouse Grammars and Pedagogy | 3 |
| ENGL 10405 | Senior Seminar | 3 |
| ENGL 10590 | Young Adult Literature | 3 |

American Literature Requirement (6 hours)

Students should choose two American Literature courses for a total of six credit hours.

| | | |
|------------|---|---|
| ENGL 10224 | Multiethnic Literature of the United States | 3 |
| ENGL 10233 | American Literature: Beginnings to 1865✓ | 3 |
| ENGL 10234 | American Literature: 1865 to the Present✓ | 3 |

English Literature Requirement (6 hours)

Students should choose two English Literature courses for a total of six credit hours.

| | | |
|------------|---|---|
| ENGL 10245 | English Literature: Beowulf through the 18th Century✓ | 3 |
| ENGL 10246 | English Literature: Romanticism to the Present✓ | 3 |
| ENGL 10372 | Introduction to Shakespeare | 3 |

Language and Linguistics Requirement (3 hours)

Students should select one of the Language and Linguistics courses listed for a total of three credit hours.

| | | |
|------------|--------------------------|---|
| ENGL 10403 | Studies in Language | 3 |
| ENGL 10504 | Language and Linguistics | 3 |

Writing Requirement (3 hours)

Students should select one of the Writing courses listed for a total of three credit hours.

| | | |
|------------|----------------------------------|---|
| ENGL 10203 | Writing and Rhetoric | 3 |
| ENGL 10210 | Introduction to Creative Writing | 3 |

Literature Elective Requirement (3 hours)

Students should select one literature course numbered 200 or above, except ENGL 10220, Introduction to Literature.

| | | |
|------------|---|--------|
| ENGL 10224 | Multiethnic Literature of the United States | 3 |
| ENGL 10226 | Modern and Contemporary World Literature | 3 |
| ENGL 10325 | Special Studies | 1 to 3 |
| ENGL 10331 | The Bible and Literature | 3 |
| ENGL 10340 | Cultural Studies in Literature | 3 |
| ENGL 10341 | Literature and Film | 3 |
| ENGL 10343 | Survey of Women's Literature | 3 |
| ENGL 10351 | Science Fiction Literature | 3 |
| ENGL 10372 | Introduction to Shakespeare | 3 |
| ENGL 10520 | Studies in Early British Literature | 3 |
| ENGL 10530 | Studies in British Literature, 18th Century-Present | 3 |
| ENGL 10540 | Studies in Multiculturalism and World Literature | 3 |
| ENGL 10550 | Studies in American Literature | 3 |

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take ENGL 10580 Methods in Secondary School English as part of their professional education requirements.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for English grades 9-12.

English Education Comprehensive Major, 57 hours: B.S.Ed.—No Minor Required

CIP: 131305

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****English Core Requirements (18 hours)**

| | | |
|------------|---|---|
| ENGL 10233 | American Literature: Beginnings to 1865✓ | 3 |
| ENGL 10234 | American Literature: 1865 to the Present✓ | 3 |
| ENGL 10245 | English Literature: Beowulf through the 18th Century✓ | 3 |
| ENGL 10246 | English Literature: Romantics to the Present✓ | 3 |
| ENGL 10372 | Introduction to Shakespeare | 3 |
| ENGL 10405 | Senior Seminar | 3 |

Required Courses (24 hours)

| | | |
|------------|---|---|
| ENGL 10210 | Introduction to Creative Writing | 3 |
| ENGL 10224 | Multiethnic Literature of the United States | 3 |

| | | |
|------------|---|---|
| ENGL 10230 | Foundations of Literary Study | 3 |
| ENGL 10321 | Teaching Reading in Middle and Secondary English Classrooms | 3 |
| ENGL 10322 | Introduction to the Teaching of Writing | 3 |
| ENGL 10404 | Schoolhouse Grammars and Pedagogy | 3 |
| ENGL 10590 | Young Adult Literature | 3 |
| ENGL 10504 | Language and Linguistics OR | 3 |
| ENGL 10403 | Studies in Language | 3 |

B.S.Ed. in English students may not use ENGL 10224 to fulfill a Northwest Core requirement.

Approved writing course numbered 300 or above (3 hours)

| | |
|---------------------------|---|
| Approved Writing Elective | 3 |
|---------------------------|---|

Approved literature courses numbered 300 or above (6 hours)

| | |
|-------------------------------|---|
| Approved Literature electives | 6 |
|-------------------------------|---|

Approved English electives to total 57 hours (6 hours)

| | |
|--------------------|---|
| Approved Electives | 6 |
|--------------------|---|

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take ENGL 10580 Methods in Secondary School English as part of their professional education requirements.

Free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for English grades 9-12.

English Minor, 24 hours

CIP: 230101

Requirements

Two courses from (6 hours):

| | | |
|------------|---|---|
| ENGL 10233 | American Literature: Beginnings to 1865✓ | 3 |
| ENGL 10234 | American Literature: 1865 to the Present✓ | 3 |
| ENGL 10245 | English Literature: Beowulf through the 18th Century✓ | 3 |
| ENGL 10246 | English Literature: Romantics to the Present✓ | 3 |

One course from (3 hours):

| | | |
|------------|---------------------------------------|---|
| ENGL 10203 | Writing and Rhetoric | 3 |
| ENGL 10210 | Introduction to Creative Writing | 3 |
| ENGL 10312 | Creative Writing: Creative Nonfiction | 3 |
| ENGL 10313 | Creative Writing: Fiction | 3 |
| ENGL 10314 | Creative Writing: Poetry | 3 |
| ENGL 10315 | Professional and Technical Writing | 3 |
| ENGL 10316 | Creative Writing: Playwriting | 3 |

Approved electives to total 24 hours (15 hours)

(Must include 9 hours of upper-level English)

| | |
|--------------------|----|
| Approved Electives | 15 |
|--------------------|----|

At least 12 hours of minor coursework must come from literature courses.

Students are encouraged to consider specializing by choosing primarily courses that fall within a particular area of interest, such as American Literature (ENGL 10224, ENGL 10233, ENGL 10234, ENGL 10550), British Literature (ENGL 10245, ENGL 10246, ENGL 10372, ENGL 10520, ENGL 10530), World Literature (ENGL 10226, ENGL 10331, ENGL 10540, LANG 14582), Linguistics (ENGL

10403 & ENGL 10501), or Creative Writing (ENGL 10210, ENGL 10312, ENGL 10313, ENGL 10314, ENGL 10316, ENGL 10414, ENGL 10560). However, such specialization is not required.

Writing Minor in English, 24 hours

CIP: 230501

Requirements

Required Courses (9 hours)

| | | |
|------------|------------------------------------|---|
| ENGL 10203 | Writing and Rhetoric | 3 |
| ENGL 10210 | Introduction to Creative Writing | 3 |
| ENGL 10315 | Professional and Technical Writing | 3 |

Approved Electives from the following (15 hours):

Any two English Department literature courses for a total of 6 hours

| | | |
|------------|---|--------|
| ENGL 10312 | Creative Writing: Creative Nonfiction | 3 |
| ENGL 10313 | Creative Writing: Fiction | 3 |
| ENGL 10314 | Creative Writing: Poetry | 3 |
| ENGL 10316 | Creative Writing: Playwriting | 3 |
| ENGL 10322 | Introduction to the Teaching of Writing | 3 |
| ENGL 10380 | Introduction to Writing Center Studies | 1 |
| ENGL 10403 | Studies in Language | 3 |
| ENGL 10414 | Approaches to Creative Writing | 3 |
| ENGL 10419 | Directed Writing | 1 to 4 |
| ENGL 10430 | Digital Literacy | 3 |
| ENGL 10495 | Internship in Writing and Research | 1 to 8 |
| ENGL 10501 | Writing and Pedagogy | 3 |
| ENGL 10512 | Publication Skills | 3 |
| ENGL 10560 | Advanced Creative Writing | 3 |
| MMED 20227 | Reporting | 3 |
| MMED 20327 | Advanced Reporting | 3 |
| MMED 20358 | Feature Writing | 3 |

Language Arts Concentrations for Middle School Major, 24 hours

CIP: 131305

Requirements

Required Courses (18 hours)

(Meets requirements of Major in Middle School)

| | | |
|------------|---|---|
| ENGL 10321 | Teaching Reading in Middle and Secondary English Classrooms | 3 |
| ENGL 10322 | Introduction to the Teaching of Writing | 3 |
| ENGL 10404 | Schoolhouse Grammars and Pedagogy | 3 |
| ENGL 10590 | Young Adult Literature | 3 |
| COM 29325 | Listening Behavior and Skills | 3 |
| THEA 43460 | Creative Dramatics | 3 |

Electives (6 hours)

Choose 2 from the following:

| | | |
|------------|---|---|
| ENGL 10210 | Introduction to Creative Writing | 3 |
| ENGL 10224 | Multiethnic Literature of the United States | 3 |
| ENGL 10233 | American Literature: Beginnings to 1865✓ | 3 |
| ENGL 10234 | American Literature: 1865 to the Present✓ | 3 |
| ENGL 10245 | English Literature: Beowulf through the 18th Century✓ | 3 |
| ENGL 10246 | English Literature: Romantics to the Present✓ | 3 |

ENGL 10372 Introduction to Shakespeare 3

Professional Education Requirements

See Middle School Education Program Requirements (p. 308)

Students must take ENGL 10580 Methods in Secondary School English as part of their professional education requirements

This concentration, when completed under the B.S.Ed. Middle School Program, will meet Missouri teacher certification standards for Language Arts grades 5-9. Primary advisement for Middle School Certification is provided by the School of Education (p. 299). Please also seek a secondary advisor from the content area.

English Minor, 30 hours: Certifiable

CIP: 131305

Requirements

Required Courses (27 hours)

| | | |
|------------|---|---|
| ENGL 10210 | Introduction to Creative Writing | 3 |
| ENGL 10233 | American Literature: Beginnings to 1865✓ | 3 |
| ENGL 10234 | American Literature: 1865 to the Present✓ | 3 |
| ENGL 10245 | English Literature: Beowulf through the 18th Century✓ | 3 |
| ENGL 10246 | English Literature: Romantics to the Present✓ | 3 |
| ENGL 10322 | Introduction to the Teaching of Writing | 3 |
| ENGL 10404 | Schoolhouse Grammars and Pedagogy | 3 |
| ENGL 10590 | Young Adult Literature | 3 |
| ENGL 10504 | Language and Linguistics OR | 3 |
| ENGL 10403 | Studies in Language | 3 |

Approved electives (3 hours)

Advisor-approved elective 3

Professional Education Requirements

See Secondary Education Program Requirements (p. 310) or Elementary/Secondary Program Requirements (p. 311)

Students must take ENGL 10580 Methods in Secondary School English as part of their professional education requirements.

This minor, when completed under the B.S.Ed. Secondary or Elementary/Secondary Programs, will meet Missouri teacher certification standards for English grades 9-12.

Professional Writing Certificate, 12 hours

CIP: 231301

The 12-hour Professional Writing Certificate prepares students for the writing they will do in their careers. It offers focused study and practice in the clear and effective written communication that employers demand. It helps students develop essential skills in critical thinking, in audience and subject analysis, and in clear and persuasive presentation of information. It engages students in modes, genres, and approaches of workplace writing. This certificate is a complement to any program, and will benefit students who plan to enter fields where employers will expect them to communicate effectively through writing, including business, public relations, computer sciences, and health sciences.

Certificate must be completed with a Bachelor's degree; it is not a stand-alone program.

Requirements

Core Requirements (9 hours)

| | | |
|------------|---|---|
| ENGL 10315 | Professional and Technical Writing | 3 |
| ENGL 10430 | Digital Literacy | 3 |
| ENGL 10515 | Advanced Professional and Technical Writing | 3 |

Approved elective from the following (3 hours):

| | | |
|------------|----------------------|---|
| ENGL 10203 | Writing and Rhetoric | 3 |
| ENGL 10512 | Publication Skills | 3 |

Languages / 14

Spanish Major, 34 hours: B.A.—Minor Required or Collateral Field

CIP: 160905

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

B.A. Modern Language Requirement (9 hours)

| | |
|-----------------|---|
| Modern Language | 9 |
|-----------------|---|

All 9 hours must be in the same language.

Required Core (16 hours)

| | | |
|------------|---|---|
| LANG 14242 | Intermediate Spanish for Communication and Culture I | 3 |
| LANG 14243 | Intermediate Spanish for Communication and Culture II | 3 |
| LANG 14344 | Advanced Conversation in Spanish | 3 |
| LANG 14345 | Advanced Spanish Composition | 3 |

| | | |
|------------|---------------------------------------|---|
| LANG 14448 | Survey of Spanish Language Literature | 3 |
| | OR | |

| | | |
|------------|---------------------------|---|
| LANG 14493 | Latin American Literature | 3 |
|------------|---------------------------|---|

| | | |
|------------|---|---|
| LANG 14485 | Senior Seminar for Modern Language Majors | 1 |
|------------|---|---|

LANG 14242: Appropriate for most students with four or more years of high school Spanish.

LANG 14141 and LANG 14142 are prerequisite courses. These may count toward the major.

Advanced Electives (18 hours)

(Minimum of 9 hours from the following to be taken on the Northwest campus or from Northwest faculty. Courses may be taken concurrently.)

| | | |
|------------|---|--------|
| LANG 14347 | Study Abroad for Spanish or French | 1 to 4 |
| LANG 14348 | Spanish History and Culture | 3 |
| LANG 14400 | Special Offering | 1 to 4 |
| LANG 14401 | Special Topics | 1 to 3 |
| LANG 14403 | Special Topics in Latin American Cinema | 3 |
| LANG 14420 | Studies in Spanish-English Translation | 3 |
| LANG 14446 | Practicum in Spanish | 1 to 3 |
| LANG 14447 | Latin American Civilization I | 3 |
| LANG 14448 | Survey of Spanish Language Literature | 3 |
| LANG 14449 | Independent Study in Spanish | 1 to 2 |
| LANG 14457 | Latin American Civilization II | 3 |
| LANG 14460 | Advanced Studies in Modern Languages | 3 |
| LANG 14470 | Internship in Languages | 1 to 3 |
| LANG 14493 | Latin American Literature | 3 |
| LANG 14500 | Special Offering | 1 to 4 |

Collateral Field in Intercultural Enrichment (24 hours)

(If no minor selected)

| | | |
|------------|---|--------|
| ENGL 10224 | Multiethnic Literature of the United States | 3 |
| LANG 14347 | Study Abroad for Spanish or French | 1 to 4 |
| GEOG 32445 | Geography of Latin America | 3 |
| HIST 33375 | History of Latin America | 3 |
| POLS 34421 | International Conflict Resolution/ | 3 |
| MKTG 55438 | International Business | 3 |

LANG 14347: Faculty-led trips in other departments, Study Abroad may be counted with departmental approval; upper-level Spanish courses may be substituted for students unable to participate in experiences requiring travel.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Spanish Major, 34 hours: B.S.—Minor Required or Collateral Field
CIP: 160905

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Core (16 hours)

| | | |
|------------|---|---|
| LANG 14242 | Intermediate Spanish for Communication and Culture I | 3 |
| LANG 14243 | Intermediate Spanish for Communication and Culture II | 3 |
| LANG 14344 | Advanced Conversation in Spanish | 3 |
| LANG 14345 | Advanced Spanish Composition | 3 |
| LANG 14448 | Survey of Spanish Language Literature | 3 |
| | OR | |
| LANG 14493 | Latin American Literature | 3 |
| LANG 14485 | Senior Seminar for Modern Language Majors | 1 |

LANG 14242: Appropriate for most students with four or more years of high school Spanish.

LANG 14141 and LANG 14142 are prerequisite courses. These do not count toward the major.

Advanced Electives (18 hours)

(Minimum of 18 hours from the following; at least 12 hours are to be taken on the Northwest campus or from Northwest faculty. Courses may be taken concurrently.)

| | | |
|------------|---|--------|
| LANG 14347 | Study Abroad for Spanish or French | 1 to 4 |
| LANG 14348 | Spanish History and Culture | 3 |
| LANG 14400 | Special Offering | 1 to 4 |
| LANG 14401 | Special Topics | 1 to 3 |
| LANG 14403 | Special Topics in Latin American Cinema | 3 |
| LANG 14420 | Studies in Spanish-English Translation | 3 |
| LANG 14446 | Practicum in Spanish | 1 to 3 |
| LANG 14447 | Latin American Civilization I | 3 |
| LANG 14448 | Survey of Spanish Language Literature | 3 |
| LANG 14449 | Independent Study in Spanish | 1 to 2 |
| LANG 14457 | Latin American Civilization II | 3 |
| LANG 14460 | Advanced Studies in Modern Languages | 3 |
| LANG 14470 | Internship in Languages | 1 to 3 |
| LANG 14493 | Latin American Literature | 3 |
| LANG 14500 | Special Offering | 1 to 4 |

Collateral Field in Intercultural Enrichment (24 hours)

(If no minor selected)

| | | |
|------------|---|---|
| ENGL 10224 | Multiethnic Literature of the United States | 3 |
|------------|---|---|

| | | |
|------------|------------------------------------|--------|
| LANG 14347 | Study Abroad for Spanish or French | 1 to 4 |
| GEOG 32445 | Geography of Latin America | 3 |
| HIST 33375 | History of Latin America | 3 |
| POLS 34421 | International Conflict Resolution✓ | 3 |
| MKTG 55438 | International Business | 3 |

LANG 14347: Faculty-led trips in other departments, Study Abroad may be counted with departmental approval; upper-level Spanish courses may be substituted for students unable to participate in experiences requiring travel.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Spanish Major, 34 hours: B.S.Ed., (Certifies Grades K-12) —Minor Required

CIP: 131330

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Core (16 hours)

| | | |
|------------|---|---|
| LANG 14242 | Intermediate Spanish for Communication and Culture I | 3 |
| LANG 14243 | Intermediate Spanish for Communication and Culture II | 3 |
| LANG 14344 | Advanced Conversation in Spanish | 3 |
| LANG 14345 | Advanced Spanish Composition | 3 |
| LANG 14448 | Survey of Spanish Language Literature OR | 3 |
| LANG 14493 | Latin American Literature | 3 |
| LANG 14485 | Senior Seminar for Modern Language Majors | 1 |

LANG 14242: (Appropriate for most students with four or more years of high school Spanish.)

LANG 14141 and LANG 14142 are prerequisite courses. These do not count toward the major.

Advanced Electives (18 hours)

(Minimum of 18 hours from the following; at least 6 hours are to be taken on the Northwest campus or from Northwest faculty. Courses may be taken concurrently.)

| | | |
|------------|---|--------|
| LANG 14347 | Study Abroad for Spanish or French | 1 to 4 |
| LANG 14348 | Spanish History and Culture | 3 |
| LANG 14400 | Special Offering | 1 to 4 |
| LANG 14401 | Special Topics | 1 to 3 |
| LANG 14403 | Special Topics in Latin American Cinema | 3 |
| LANG 14420 | Studies in Spanish-English Translation | 3 |
| LANG 14446 | Practicum in Spanish | 1 to 3 |
| LANG 14447 | Latin American Civilization I | 3 |
| LANG 14449 | Independent Study in Spanish | 1 to 2 |
| LANG 14457 | Latin American Civilization II | 3 |
| LANG 14460 | Advanced Studies in Modern Languages | 3 |
| LANG 14470 | Internship in Languages | 1 to 3 |
| LANG 14493 | Latin American Literature | 3 |
| LANG 14500 | Special Offering | 1 to 4 |

Professional Education Requirements

See Elementary/Secondary Education Program Requirements (p. 311)

Students must take LANG 14480 Methods in Teaching Modern Language as part of their professional education requirements.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Elementary/Secondary Program, will meet Missouri teacher certification standards for Spanish grades K-12.

Spanish Minor, 24 hours

CIP: 160905

Requirements**Required Courses (15 hours)**

| | | |
|---|---|---|
| LANG 14242 | Intermediate Spanish for Communication and Culture I | 3 |
| LANG 14243 | Intermediate Spanish for Communication and Culture II | 3 |
| LANG 14344 | Advanced Conversation in Spanish | 3 |
| LANG 14345 | Advanced Spanish Composition | 3 |
| LANG 14448 | Survey of Spanish Language Literature OR | 3 |
| LANG 14493 | Latin American Literature | 3 |
| LANG 14242: Appropriate for most students with four or more years of high school Spanish. | | |

Advanced Electives (9 hours)

(Minimum of 6 hours from the following, to be taken on the Northwest campus or from Northwest faculty. These courses may be taken concurrently.)

| | | |
|--|---|--------|
| LANG 14347 | Study Abroad for Spanish or French | 1 to 4 |
| LANG 14348 | Spanish History and Culture | 3 |
| LANG 14400 | Special Offering | 1 to 4 |
| LANG 14401 | Special Topics | 1 to 3 |
| LANG 14403 | Special Topics in Latin American Cinema | 3 |
| LANG 14420 | Studies in Spanish-English Translation | 3 |
| LANG 14446 | Practicum in Spanish | 1 to 3 |
| LANG 14447 | Latin American Civilization I | 3 |
| LANG 14448 | Survey of Spanish Language Literature | 3 |
| LANG 14449 | Independent Study in Spanish | 1 to 2 |
| LANG 14457 | Latin American Civilization II | 3 |
| LANG 14460 | Advanced Studies in Modern Languages | 3 |
| LANG 14493 | Latin American Literature | 3 |
| LANG 14500 | Special Offering | 1 to 4 |
| LANG 14141 and LANG 14142 are prerequisite courses. These do not count toward the minor. | | |

Students must take LANG 14480 Methods in Teaching Modern Language as part of their professional education requirements.

This minor, when completed under a B.S.Ed. degree, will meet Missouri teacher certification standards for Spanish grades K-9. See Professional Education Requirements (p. 303).

Spanish Certificate Program, 12 hours

CIP: 160905

The Spanish Certificate Program is designed to offer a certificate to those students who complete a total of 12 hours of coursework in Spanish. The completion of this certificate will recognize an Intermediate High/Advanced Low proficiency in Spanish language as well as oral and written communication skills.

Certificate must be completed with a Bachelor's degree; it is not a stand-alone program.

Requirements

Spanish Certificate Core (12 hours)

| | | |
|------------|---|---|
| LANG 14142 | Spanish: Communication and Culture II✓ | 3 |
| LANG 14242 | Intermediate Spanish for Communication and Culture I | 3 |
| LANG 14243 | Intermediate Spanish for Communication and Culture II | 3 |
| LANG 14344 | Advanced Conversation in Spanish OR | 3 |
| LANG 14345 | Advanced Spanish Composition | 3 |

Note: Spanish I (LANG 14141) is a prerequisite for Spanish II (LANG 14142). Both Spanish I and Spanish II may be satisfied by taking the test out relevant to each course.

Individualized Language Program Minor, 27 hours

CIP: 160101

Students may participate in a language immersion program at an approved foreign higher education institution and count up to 24 semester-equivalent credit hours toward this minor. Partner institutions and courses of study must be approved in advance by the Study Abroad Office and the Department of Language, Literature, and Writing. Coursework must be taught in a target language other than English, and may not be in the student's native language.

At least 24 credit hours of coursework must be in a single non-English target language.

At least 3 credit hours of coursework must be completed through Northwest, either in the target language or in English-language delivered courses related to the target language (e.g., history, culture).

Mathematics and Statistics Department / 17

Chairperson: Brian Haile

Faculty: Rhonda Brown, Kurtis Fink, Taylor Harrison, Haley Hutcheson, Abdolmonaem Jornaz, Amanda Meiners, Jawad Sadek, Brian Swink, Csilla Tasi, David Vlieger, Jennifer Wall

Statement of Mission

The mission of the Department of Mathematics and Statistics is to offer students opportunities to see and explore the beauty and utility of mathematics. Degree programs emphasizing mathematics, statistics, or mathematics education provide focused experiences, both in and out of the classroom, with sufficient breadth to facilitate lifelong learning.

A goal of each degree program is to provide a quality curriculum enabling each student to compete successfully in the job market or continue in graduate studies.

Mathematics and statistics courses, including those in The Northwest Core, empower students to be productive citizens, to make informed decisions and add value to society.

Degree Programs

The Department of Mathematics and Statistics offers programs leading to both comprehensive and non-comprehensive Bachelor of Arts degrees in Mathematics and the Bachelor of Science degrees in the areas of mathematics, including the options for an emphasis in Data Science. For students interested in teaching mathematics in grades 9-12, the department offers the Bachelor of Science in Education degree with a major in mathematics education. In addition, there are minors in mathematics education (middle school), mathematics (calculus based), mathematics (non-calculus based), and statistics.

Students in the mathematics major develop their abilities to interpret, solve, and explain problems. Through a balanced selection of coursework from both pure and applied mathematics, students expand their understanding of how data analysis and mathematical modeling impact aspects of contemporary society. Education majors also learn how to help students understand these aspects of mathematics. Students who incorporate preparatory work in actuarial science in a mathematics major (with a possible economics minor) can choose courses preparing them for three actuarial exams administered by the Society of Actuaries/Casualty Actuarial Society. In addition, students may choose courses leading to VEE credit from the SOA/CAS in the areas of Accounting and Finance, Economics, and Mathematical Statistics.

In all of these programs, students learn fundamental concepts while engaging in activities similar to those encountered in the workplace. Small classes, taught by full-time faculty using active learning instructional paradigms, focus on the student's learning process, with the teacher's role as that of guide, facilitator and mentor.

All of these programs are supported by a wide variety of computing facilities ranging from local area networks of microcomputers to campus-wide access to an international network of computing services.

Test-Out Policy

Undergraduate students may test out of certain lower division courses in mathematics. Examinations are available each semester. See the department chairperson for courses that are available for test-out.

Advanced Standing Requirement

In order to achieve advanced standing in the Department of Mathematics and Statistics, a student must have a grade of C or better in each of the courses MATH 17120 Calculus I, MATH 17121 Calculus II, and MATH 17319 Graph Theory. As long as proper prerequisites are satisfied, all mathematics courses are open to enrollment, regardless of whether or not advanced standing

has been granted. In exceptional cases, a student who has not met the criteria may appeal to a departmental committee. The committee will hear the appeal and decide whether advanced standing should be granted.

Co-requisites Mathematics

A minimum math ACT score of 22 or a minimum high school cumulative GPA of 3.0 is required for admission to most Northwest Core Mathematical Sciences courses. Prerequisites for other Mathematical Sciences courses may be found under their course descriptions.

For most Mathematical Sciences courses in The Northwest Core, students who lack the prerequisite requirements must also take concurrently a co-requisite STRATEGIES course designed to help them be successful in the content of that particular college credit-bearing course. Co-requisite pairings are as follows:

MATH 17114 General Statistics

MATH 17014 Strategies for General Statistics

MATH 17115 Concepts of Mathematics

MATH 17015 Strategies for Concepts of Mathematics

MATH 17116 Mathematical Modeling

MATH 17016 Strategies for Mathematical Modeling

MATH 17118 Precalculus Algebra

MATH 17018 Strategies for Precalculus Algebra

MATH 17171 Fundamentals of Mathematics

MATH 17071 Strategies for Fundamentals of Mathematics

See MATH 17117 Precalculus, MATH 17118 Precalculus Algebra, and MATH 17120 Calculus I course descriptions for prerequisites, which are greater.

Student who do not meet the prerequisites but feel strongly that they should not be required to take the co-requisite may request a placement test by emailing math@nwmissouri.edu and requesting the math placement test, indicating the course for which they are seeking placement.

Senior Assessment

For each of the majors in Mathematics, a senior-level major field assessment must be completed by each student.

Data Sciences and Informatics Comprehensive Major, 73-84 hours: B.S.—No Minor Required

CIP: 110802

Areas of Emphasis: Computer Science (p. 289), Business (p. 259), Molecular Biology (p. 196), GIS (p. 135)

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Core Requirements for a Major in Data Sciences and Informatics

Required Courses (52 hours)

| | | |
|------------|--|---|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17120 | Calculus I | 4 |
| MATH 17311 | Linear Algebra | 3 |
| MATH 17316 | Linear Statistical Models I | 3 |
| MATH 17318 | Linear Statistical Models II | 3 |
| MATH 17356 | Data Mining with Applications to Business and Sciences | 3 |
| CSIS 44101 | Foundations of Computing OR | 3 |
| CSIS 44130 | Computers and Information Technology | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44317 | Management Information Systems | 3 |
| CSIS 44413 | Visualization | 3 |
| CSIS 44460 | Database Systems | 3 |
| PHIL 39275 | Professional Ethics✓ | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Note: If ANY courses in the Core Requirements for this major are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

CSIS 44141 has a prerequisite of a grade of C or better in CSIS 44101 or CSIS 44130, both of which are options for the Institutional Requirement for Digital Literacy.

PHIL 39275 fulfills a Northwest Core Humanities Requirement.

ECON 52150 fulfills a Northwest Core Social Science Requirement.

Emphasis Area (21-32 hours)

Free Electives as needed to reach minimum 120 graduation hours

Mathematics Major, 36-39 hours: B.A., B.S.—Minor Required

CIP: 270101

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Recommended:

| | | |
|------------|--------------------------|---|
| CSIS 44101 | Foundations of Computing | 3 |
|------------|--------------------------|---|

| | | |
|------------|--------------------------------------|---|
| | OR | |
| CSIS 44130 | Computers and Information Technology | 3 |

A Professions course chosen from (1-3 hours):

| | | |
|------------|--------------------------------------|--------|
| INCO 77297 | Profession-Based Work Experience | 1 to 3 |
| MATH 17197 | Exploring Mathematics-Related Fields | 1 |

Foundational Requirements (32 hours)

To achieve the common objectives, all students in this major are required to complete a common foundational set of 32 semester hours and participate in senior assessment. The area's common foundational requirements are:

| | | |
|------------|----------------------------------|---|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17120 | Calculus I | 4 |
| MATH 17121 | Calculus II | 5 |
| MATH 17145 | Computational Reasoning and Data | 3 |
| MATH 17311 | Linear Algebra | 3 |
| MATH 17316 | Linear Statistical Models I | 3 |
| MATH 17333 | Probability and Statistics | 3 |
| MATH 17342 | An Introduction to Modeling | 3 |
| MATH 17390 | Transition to Proofs | 3 |
| MATH 17495 | Seminar in Mathematics | 2 |

MATH 17120: This course fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Approved departmental electives (3-4 hours)

Choose one.

| | | |
|------------|--|---|
| MATH 17319 | Graph Theory | 3 |
| MATH 17321 | Calculus III | 4 |
| MATH 17356 | Data Mining with Applications to Business and Sciences | 3 |
| MATH 17361 | Differential Equations | 3 |
| MATH 17366 | Statistical Machine Learning for Pattern Recognition | 3 |
| MATH 17472 | Time Series Forecasting | 3 |
| MATH 17520 | Applied Analysis | 3 |
| CSIS 44413 | Visualization | 3 |

Note: A B.A. degree also requires 9 credit hours of a modern language.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours**Mathematics Comprehensive Major, 45-48 hours: B.A., B.S.—No Minor Required**

CIP: 270101

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)**

Recommended:

| | | |
|------------|--------------------------------------|---|
| CSIS 44101 | Foundations of Computing | 3 |
| | OR | |
| CSIS 44130 | Computers and Information Technology | 3 |

A Professions course chosen from (1-3 hours):

| | | |
|------------|--------------------------------------|--------|
| INCO 77297 | Profession-Based Work Experience | 1 to 3 |
| MATH 17197 | Exploring Mathematics-Related Fields | 1 |

Foundational Requirements (32 hours)

To achieve the common objectives, all students in this major required to complete a common foundational set of 32 semester hours and participate in senior assessment. The area's common foundational requirements are:

| | | |
|------------|----------------------------------|---|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17120 | Calculus I | 4 |
| MATH 17121 | Calculus II | 5 |
| MATH 17145 | Computational Reasoning and Data | 3 |
| MATH 17311 | Linear Algebra | 3 |
| MATH 17316 | Linear Statistical Models I | 3 |
| MATH 17333 | Probability and Statistics | 3 |
| MATH 17342 | An Introduction to Modeling | 3 |
| MATH 17390 | Transition to Proofs | 3 |
| MATH 17495 | Seminar in Mathematics | 2 |

MATH 17120: This course fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Approved departmental electives (12-13 hours)

Choose 12-13 hours.

| | | |
|------------|--|---|
| MATH 17319 | Graph Theory | 3 |
| MATH 17321 | Calculus III | 4 |
| MATH 17351 | College Geometry | 3 |
| MATH 17361 | Differential Equations | 3 |
| MATH 17356 | Data Mining with Applications to Business and Sciences | 3 |
| MATH 17366 | Statistical Machine Learning for Pattern Recognition | 3 |
| MATH 17415 | Modern Algebra | 3 |
| MATH 17472 | Time Series Forecasting | 3 |
| MATH 17520 | Applied Analysis | 3 |
| CSIS 44413 | Visualization | 3 |

Note: A B.A. degree also requires 9 credit hours of a modern language.

Free electives as needed to reach minimum 120 graduation hours

Mathematics Comprehensive Major-Data Science Emphasis, 48-50 hours: B.A., B.S.—No Minor Required

CIP: 270101

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Recommended:

| | | |
|------------|--------------------------------------|---|
| CSIS 44101 | Foundations of Computing | 3 |
| | OR | |
| CSIS 44130 | Computers and Information Technology | 3 |

A Professions course chosen from:

| | | |
|------------|--------------------------------------|--------|
| INCO 77297 | Profession-Based Work Experience | 1 to 3 |
| MATH 17197 | Exploring Mathematics-Related Fields | 1 |

Foundational Requirements (44 hours)

To achieve the common objectives, all students in this major are required to complete a common foundational set of 44 semester hours and participate in senior assessment. The area's common foundational requirements are:

| | | |
|------------|---------------------|---|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17120 | Calculus I | 4 |
| MATH 17121 | Calculus II | 5 |

| | | |
|------------|--|---|
| MATH 17145 | Computational Reasoning and Data | 3 |
| MATH 17311 | Linear Algebra | 3 |
| MATH 17316 | Linear Statistical Models I | 3 |
| MATH 17318 | Linear Statistical Models II | 3 |
| MATH 17319 | Graph Theory | 3 |
| MATH 17333 | Probability and Statistics | 3 |
| MATH 17366 | Statistical Machine Learning for Pattern Recognition | 3 |
| MATH 17472 | Time Series Forecasting | 3 |
| MATH 17495 | Seminar in Mathematics | 2 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44413 | Visualization | 3 |

MATH 17120: This course fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Approved electives

Choose 3 hours from business, computer science, or mathematics at 300/400/500 level.

Note: A B.A. degree also requires 9 credit hours of a modern language.

Free electives as needed to reach minimum 120 graduation hours

Mathematics Education Comprehensive Major, 40-41 hours: B.S.Ed.—No Minor Required (Certifies Grades 9-12)

CIP: 131311

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Foundational Requirements (34 hours)

To achieve the common objectives, all students in this major are required to complete a common foundational set of 34 semester hours and participate in senior assessment. The area's common foundational requirements are:

| | | |
|------------|---|---|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17120 | Calculus I | 4 |
| MATH 17121 | Calculus II | 5 |
| MATH 17145 | Computational Reasoning and Data | 3 |
| MATH 17280 | Methods in Teaching with Technology | 3 |
| MATH 17311 | Linear Algebra | 3 |
| MATH 17351 | College Geometry | 3 |
| MATH 17390 | Transition to Proofs | 3 |
| MATH 17415 | Modern Algebra | 3 |
| MATH 17497 | Connections to Teaching Mathematics | 1 |
| MATH 17580 | Methods in Secondary School Mathematics | 3 |

MATH 17120: This course fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Approved departmental electives (6-7 hours)

Choose 6-7 hours, but students **CANNOT** take **BOTH** MATH 17333 Probability and Statistics and MATH 17520 Applied Analysis.

| | | |
|------------|----------------------------|---|
| MATH 17321 | Calculus III | 4 |
| MATH 17333 | Probability and Statistics | 3 |
| MATH 17361 | Differential Equations | 3 |
| MATH 17520 | Applied Analysis | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44241 | Computer Programming II | 3 |

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take MATH 17580 (p. 429) Methods in Secondary School Mathematics as part of their professional education requirements.

Free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Mathematics grades 9-12.

Mathematics Minor (Calculus based), 21-22 hours

CIP: 270101

Required Courses**Required Courses (21-22 hours)**

| | | |
|------------|---------------------------------|---------|
| MATH 17120 | Calculus I | 4 |
| MATH 17121 | Calculus II | 5 |
| MATH 17311 | Linear Algebra | 3 |
| | Approved departmental electives | 9 to 10 |

Note: If MATH 17120 is also used to fulfill a Northwest Core Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Mathematics Minor (Non-Calculus based), 22-23 hours

CIP: 270101

Requirements**A course chosen from (4-5 hours):**

| | | |
|------------|--------------|---|
| MATH 17117 | Precalculus✓ | 5 |
| MATH 17120 | Calculus I | 4 |

Note: If MATH 17117 or MATH 17120 is also used to fulfill a Northwest Core Requirement, the number of credits hours may be counted only once toward the total number of credit hours required for graduation.

Required Courses (9 hours)

| | | |
|------------|----------------------|---|
| MATH 17311 | Linear Algebra | 3 |
| MATH 17319 | Graph Theory | 3 |
| MATH 17390 | Transition to Proofs | 3 |

A proofs course chosen from (3 hours):

| | | |
|------------|------------------|---|
| MATH 17351 | College Geometry | 3 |
| MATH 17415 | Modern Algebra | 3 |

Electives (6 hours)

| | |
|---------------------------------|---|
| Approved departmental electives | 6 |
|---------------------------------|---|

Statistics Minor, 24 hours

CIP: 270501

Requirements**Required Courses (24 hours)**

| | | |
|------------|---|----|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17145 | Computational Reasoning and Data | 3 |
| MATH 17316 | Linear Statistical Models I | 3 |
| | Electives from mathematics and statistics with at least 3 hours in statistics | 15 |

Mathematics Education Minor, 25 hours: B.S.Ed.

CIP: 131311

Required Courses**Required Courses (25 hours)**

| | | |
|------------|--|---|
| MATH 17171 | Fundamentals of Mathematics | 3 |
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17117 | Precalculus✓ | 5 |
| MATH 17120 | Calculus I | 4 |
| MATH 17280 | Methods in Teaching with Technology | 3 |
| MATH 17371 | Algebra and Geometry for Elementary and Middle School Teachers | 3 |
| MATH 17473 | Advanced Topics for Middle School Teachers | 3 |
| MATH 17497 | Connections to Teaching Mathematics | 1 |

Professional Education Requirements

See Middle School Education Program Requirements (p. 308)

Students must take MATH 17582 Mathematics Methods for Middle School Teachers as part of their professional education requirements.

If MATH 17171 is also used to fulfill a Northwest Core Requirement, the hours may be counted only once toward the total number of credit hours required for graduation.

This minor, when completed under the B.S.Ed. Middle School Program, will meet Missouri teacher certification standards for Mathematics grades 5-9. Primary advisement for Middle School Certification is provided by the School of Education (p. 299). Please also seek a secondary advisor from the content area.

Natural Sciences Department

Chairperson: Mark Corson

Faculty: Peter Adam, Michael Bellamy, Kelsey Bowlin, Jeffrey Bradley, Leticia Cabrera, Alisha Campbell, James Campbell, Himadri Chakraborty, Matthew Cook, Gregg Dieringer, Arghya Goswami, Kurt Haberyan, Vincent Hustad, Rafiq Islam, Ahmed Malkawi, Jay McGhee, Mohammed Meziani, John Pope, Sanjay Prabhakar, David Richardson, Shelley Riley, Rená Smith, Gretchen Thornsberry, Jeffry Thornsberry, Richard Toomey, Kathleen Tott, Patricia Warner, Clifton Watkins

Statement of Mission

Northwest Missouri State University focuses on student success—every student every day.

Degree Programs

The Department of Natural Sciences offers a wide range of programs leading to Bachelor of Arts and Bachelor of Science degrees in the areas of biology, biochemistry, biology/psychology, chemistry, A.C.S. accredited chemistry, clinical laboratory sciences, earth science, ecology, environmental geology, environmental science, geology, marine biology, medicinal chemistry, nanoscale biology, nanoscale chemistry, nanoscale physics, physics, radiologic sciences, and wildlife ecology and conservation. Tracks in biology include general biology, cellular/molecular, and biomedical sciences.

The Department also offers Bachelor of Science in Education degrees in the areas of biology and chemistry.

In addition to the various degree programs, the Department of Natural Sciences provides guidance, information, and preparatory coursework on many career path areas including dental hygiene, dentistry, engineering, medicine, occupational therapy, optometry, physical therapy, pharmacy, physician's assistant, respiratory therapy and veterinary medicine.

Advanced Standing Requirement

A student qualifies for advanced standing as a biology major after the completion of 45 semester hours. In addition, all Biology majors and minors must complete the following classes with a grade of C or better: BIOL 04112/BIOL 04113 General Botany and Laboratory and BIOL 04114/BIOL 04115 General Zoology and Laboratory. All Biology majors and minors must also earn a grade of C or better in all biology course prerequisites prior to moving to a higher level course.

A student can receive advanced standing for the Bachelor of Science degree in Chemistry and A.C.S. accredited Bachelor of Science degree in Chemistry when he/she has earned a grade of C or better in MATH 17120, CHEM 24114/CHEM 24115 and CHEM 24116/CHEM 24117. Requirements to achieve advanced standing for the Bachelor of Arts degree are a grade of C or better in MATH 17118, CHEM 24114/CHEM 24115 and CHEM 24116/CHEM 24117. All chemistry courses that are prerequisites to other chemistry courses must be passed with a grade of C or higher before a more advanced course may be taken. It is recommended that students take sequential courses in adjacent semesters.

All geology courses that are prerequisites to other geology courses must be passed with a grade of C or higher before a more advanced course may be taken.

Department Policies

Students enrolled in biology and chemistry laboratory courses are expected to sign a safety contract, purchase dissecting kits, laboratory coats, gloves, and eye protection devices. In addition, students may be expected to purchase laboratory manuals and/or field guides to supplement the textbook.

Problem courses (BIOL 04429, BIOL 04439, BIOL 04479, BIOL 04489) supplement regular course offerings. They may consist of acquisition of information from library sources, the actual pursuit of a research project, special courses on demand, or similar activities. The student is expected to work independently, but under the supervision of an instructor familiar with the area being studied. It is imperative that the student obtain written consent from the intended instructor prior to enrolling in the course. Written reports are due upon completion of the project and oral reports may be required. Credit is variable (1-3 hours) with a minimum of three to five hours per week expected for each credit hour, depending on the nature of the problem. A maximum of three hours is allowed to be applied toward a biology major or minor, but additional hours may be counted as general electives.

Current topics courses (BIOL 04210, BIOL 04510) may be repeated for additional experience, new material and progression of study. A maximum of eight credit hours is allowed to be applied toward a biology major or minor, but additional hours may be counted as general electives.

Special courses in marine science (marine botany, marine zoology, marine invertebrate zoology, estuarine and marsh ecology, marine mammals, marine ornithology, marine microbiology, marine vertebrate zoology and ichthyology, physical marine geology, chemical marine geology and marine chemistry) are available during the summer at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. Contact the Marine Biology advisor, Department of Natural Sciences, for information and arrangements before February 1, as applications are required due to limited enrollment.

All students desiring a biology degree must complete a minimum of 15 hours of biology coursework (BIOL 04-xxx) from the Natural Sciences Department.

All biology graduating seniors (majors only) are required to take the ACAT subject matter test and provide the department with test results prior to graduation approval. ACAT exams are offered as part of BIOL 04491, Biological Science Seminar. All secondary education majors are also required to take the exit content exam in their endorsement areas for state certification.

Preparation for Medical, Dental, and Veterinary Programs

The Department of Natural Sciences at Northwest Missouri State University provides students with a number of different ways of preparing themselves for admission to professional programs in medicine (both M.D. and D.O.), dentistry, and veterinary medicine. Students are encouraged to speak with faculty advisors in order to identify the best path for them to achieve their goal.

Students interested in attending a medical program should be aware of prerequisites for admission to their intended school. These include minimum coursework in biology, chemistry, physics, and classes in our general education curriculum. In addition to these minimum requirements, students should select a major that provides them with enough additional coursework to give them the best possible chance of scoring well on the Medical College Admission Test (MCAT). This would include coursework in genetics, microbiology, physiology, anatomy, psychology, and sociology. For this reason, a number of different majors will successfully prepare students to go on to medical school. These include majors such as Comprehensive B.S. in Biology: Biomedical Track, Comprehensive B.S. in Biology: Cell/Molecular Track, B.S. in Chemistry: Biochemistry Emphasis, and B.S. in Chemistry: Medicinal Chemistry Emphasis.

Students interested in attending a dental program will find that entrance requirements are very similar to the entrance requirements for medical school. For this reason, majors such as Comprehensive B.S. in Biology: Biomedical Track, Comprehensive B.S. in Biology: General Biology Track, and B.S. in Chemistry: Medicinal Chemistry Emphasis would be appropriate selections.

Students planning on applying to programs in veterinary medicine would be wise to select a major such as Comprehensive B.S. in Biology: Biomedical Track or the Animal Science (Pre-Veterinary Option) offered through the School of Agricultural Sciences. Both of these major programs should provide students with the necessary prerequisites for admission. Students

that take the Biology path are encouraged to complete additional elective coursework in Animal Science to supplement their educational background.

In addition to coursework, students intending to apply to medical school, dental school or veterinary school will need to gain additional experience shadowing, observing, and working in the work environment or their chosen field. This experience should be gained throughout the student's undergraduate career.

Test-Out Policy

Undergraduate students may test out of certain lower division courses in chemistry and physics. Examinations are only available during the first week of class.

Internship and Independent Study

Geology students may apply for no more than six credit hours of combined internship and independent study hours toward their major requirements.

Biology / 04

Clinical Laboratory Sciences, 86-89 hours: B.S.—No Minor Required

In conjunction with approved hospitals and medical centers.

CIP: 511005

The curriculum leading to the Bachelor of Science in Clinical Laboratory Sciences degree emphasizes biology and chemistry. Minimum academic prerequisites are established by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) and are taken on the Northwest campus during the first three years along with other courses required by the University. The fourth year (senior year) is a structured educational program in an affiliated clinical laboratory. The clinical program is accredited through NAACLS. Upon satisfactory completion of the clinical program, a minimum of 30 hours of credit are granted and the student is awarded a B.S. in Clinical Laboratory Sciences degree. Acceptance into an affiliated program is competitive and will be determined by the quality of academic work completed by the student during the first three years of study. Admission to the clinical program is decided entirely by the hospitals. Acceptance into the University program does not guarantee acceptance of the student by an affiliated clinical program. A minimum total of 120 academic hours are required for this degree.

Students who already have a bachelor's degree and who wish to enter the field may do so by applying directly to the hospital that has an approved program. Applicants who have completed minimum requirements seven or more years before application must update microbiology and biochemistry. If a B.S. in Clinical Laboratory Sciences degree is desired, then University requirements for the degree must also be filled.

Complete application deadlines vary with the various clinical programs. Programs should be contacted during the spring semester prior to the year you want to start. As an example, application deadlines can vary from July 1 to October 15. Applications are processed through the program director/education coordinator of the clinical program.

Selection is done by each clinical program. Criteria include state of health, academic performance, and personal characteristics. Usually, a 2.5 minimum grade point average is required.

Enrollment is limited by the class size of each clinical program. Costs vary with each clinical program. Upon graduation, students are eligible to take a national certification examination. Passing the examination is not a condition for receiving the B.S. in Clinical Laboratory Sciences degree. Financial assistance varies with each clinical program. The student should contact each program and the Northwest Office of Scholarships and Financial Assistance.

Degree Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (56-59 hours)

| | | |
|------------|------------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04310 | Cell Biology | 4 |
| | OR | |
| BIOL 04440 | Molecular Biology | 4 |
| | OR | |
| MATH 17114 | General Statistics✓ | 3 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04438 | Human Physiology | 4 |
| BIOL 04444 | Immunology | 5 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24322 | Analytical Chemistry | 3 |
| CHEM 24323 | Analytical Chemistry Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| CHEM 24362 | Elementary Biochemistry | 3 |
| CHEM 24363 | Elementary Biochemistry Laboratory | 1 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |
| MATH 17116 | Mathematical Modeling✓ | 3 |
| | OR | |
| MATH 17117 | Precalculus✓ | 5 |
| | OR | |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| | OR | |
| MATH 17120 | Calculus I | 4 |

BIOL 04106, BIOL 04107, CHEM 24114, CHEM 24115, MATH 17114, MATH 17116, MATH 17117, MATH 17118, and MATH 17120: These courses fulfill Northwest Core requirements as well as requirements of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Clinical Laboratory Sciences (30 hours)

In conjunction with approved hospitals and medical centers.

Free electives as needed to reach minimum 120 graduation hours

Hospitals and officials in association with the Clinical Laboratory Sciences degree:

Des Moines, Iowa

Mercy College of Health Sciences Clinical Laboratory Science Program

Kyla Dippold, MS, MLS (ASCP), Program Chair and Assistant Professor

Kansas City, Mo.

St. Luke's Hospital of Kansas City—Clinical Laboratory Science Program

Jane Rachel, MA, MT (ASCP), Program Director

North Kansas City, Mo.

North Kansas City Memorial Hospital—School of Clinical Laboratory Science

Marisa K. James, MA, MT (ASCP), Program Director

Omaha, Nebraska

Nebraska Methodist Hospital—Medical Laboratory Science Program

Julie Richards, MPA, MT (ASCP) BB, Program Director

Echocardiographic Sciences Completion Degree Program, 92 hours: B.S. - No Minor Required

CIP: 510902

Acceptance into an affiliated program is competitive and will be determined by the quality of academic work completed by the student during the first two years of study. Admission to the clinical portion of the program is decided entirely by the affiliated medical center. **Acceptance into the University does not guarantee acceptance of the student by an affiliated program.**

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (35 hours)

If any courses in this program are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

| | | |
|------------|-------------------------------------|---|
| BIOL 04102 | General Biology✓ | 3 |
| BIOL 04103 | General Biology Laboratory✓ OR | 1 |
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| BIOL 04104 | Medical Terminology | 3 |
| BIOL 04236 | Anatomy Allied Health | 4 |
| BIOL 04238 | Physiology Allied Health | 4 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| PHIL 39276 | Biomedical Ethics✓ | 3 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| SOC 35101 | General Sociology✓ | 3 |

Echocardiography Courses (57-59 hours)

Courses are taught by the affiliated hospitals' schools of echocardiography

Free electives as needed to reach a minimum of 120 graduation hours.

Sonographic Sciences Completion Degree Program, 92 Hours: B.S. - No Minor Required

CIP: 510910

Acceptance into an affiliated clinical program is competitive and will be determined by the quality of academic work completed by the student during the first two years of study. Admission to the clinical portion of the program is decided entirely by the affiliated medical center. **Acceptance into the University does not guarantee acceptance of the student by an affiliated clinical program.**

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (35 hours)

If any courses in this program are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

| | | |
|------------|-------------------------------------|---|
| BIOL 04102 | General Biology✓ | 3 |
| BIOL 04103 | General Biology Laboratory✓ OR | 1 |
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| BIOL 04104 | Medical Terminology | 3 |
| BIOL 04236 | Anatomy Allied Health | 4 |
| BIOL 04238 | Physiology Allied Health | 4 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| PHIL 39276 | Biomedical Ethics✓ | 3 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| SOC 35101 | General Sociology✓ | 3 |

Sonography Courses (57-63 hours)

Courses are taught by affiliated programs in sonography.

Free electives as needed to reach a minimum of 120 graduation hours.

Radiologic Sciences Completion Degree Program, 89 hours: B.S.—No Minor Required

CIP: 510911

Acceptance into an affiliated clinical program is competitive and will be determined by the quality of academic work completed by the student during the first two years of study. Admission to the clinical portion of the program is decided entirely by the affiliated medical center. **Acceptance into the University does not guarantee acceptance of the student by an affiliated clinical program.**

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (36 hours)

| | | |
|------------|-----------------------------------|---|
| BIOL 04102 | General Biology✓ | 3 |
| BIOL 04103 | General Biology Laboratory✓ OR | 1 |
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| BIOL 04104 | Medical Terminology | 3 |

| | | |
|------------|---------------------------------|---|
| MATH 17116 | Mathematical Modeling✓ OR | 3 |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04236 | Anatomy Allied Health | 4 |
| BIOL 04238 | Physiology Allied Health | 4 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| PHIL 39275 | Professional Ethics✓ OR | 3 |
| PHIL 39276 | Biomedical Ethics✓ | 3 |
| SOC 35101 | General Sociology✓ | 3 |

If any courses in this program are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Radiologic Sciences (53 hours)

Courses are taught by the affiliated hospitals' schools of radiologic technology. Required for certification and licensure.

Free electives as needed to reach a minimum of 120 graduation hours.

Biology Major, 50 hours: B.S.—Minor Required

CIP: 260101

Requirements

The Northwest Core (44-47 hours)

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| MATH 17117 | Precalculus✓ OR | 5 |
| MATH 17118 | Precalculus Algebra✓ OR | 3 |
| MATH 17120 | Calculus I | 4 |

Institutional Requirements (4 hours)

Required Courses (23 hours)

| | | |
|------------|------------------------------------|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04310 | Cell Biology | 4 |
| BIOL 04348 | Biological Evolution and Diversity | 2 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04376 | Basic Ecology | 4 |
| BIOL 04491 | Biological Science Seminar | 1 |

Required Collateral Courses (20 hours)

| | | |
|------------|------------------------------------|---|
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24242 | Organic Chemistry | 3 |
| CHEM 24243 | Organic Chemistry Laboratory OR | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| MATH 17114 | General Statistics✓ | 3 |

Electives (7 hours)

Advisor-approved, upper-level electives 7

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours**Biology Comprehensive Major, 62-63 hours: B.S.—No Minor Required
CIP: 260101****Requirements****The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| MATH 17117 | Precalculus✓ OR | 5 |
| MATH 17118 | Precalculus Algebra✓ OR | 3 |
| MATH 17120 | Calculus I | 4 |

Institutional Requirements (4 hours)**Required Core Courses (23 hours)**

| | | |
|------------|-------------------------------------|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04238 | Physiology Allied Health OR | 4 |
| BIOL 04330 | Animal Anatomy and Physiology OR | 4 |
| BIOL 04430 | Plant Physiology OR | 4 |
| BIOL 04438 | Human Physiology | 4 |
| BIOL 04348 | Biological Evolution and Diversity | 2 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04376 | Basic Ecology | 4 |
| BIOL 04491 | Biological Science Seminar | 1 |

Required Collateral Courses (16 hours)

| | | |
|------------|---------------------|---|
| MATH 17114 | General Statistics✓ | 3 |
|------------|---------------------|---|

| | | |
|------------|---------------------------------|---|
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |

Choose one Track (see requirements below)

General Biology Track
 Cell/Molecular Biology Track
 Biomedical Sciences Track

General Biology Track (24 hours)

At least one course must be taken from each block to total at least 24 hours.

Choose 1-2 courses

| | | |
|------------|----------------------|---|
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04310 | Cell Biology | 4 |

Choose 1-3 courses

| | | |
|------------|------------------------------------|---|
| BIOL 04430 | Plant Physiology | 4 |
| BIOL 04438 | Human Physiology | 4 |
| BIOL 04440 | Molecular Biology | 4 |
| BIOL 04444 | Immunology | 5 |
| BIOL 04511 | Techniques in Biotechnology | 4 |
| CHEM 24322 | Analytical Chemistry | 3 |
| CHEM 24323 | Analytical Chemistry Laboratory | 1 |
| CHEM 24344 | Organic Chemistry II | 3 |
| CHEM 24345 | Organic Chemistry II Laboratory | 1 |
| CHEM 24362 | Elementary Biochemistry | 3 |
| CHEM 24363 | Elementary Biochemistry Laboratory | 1 |
| CHEM 24562 | General Biochemistry | 3 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |

Choose 1-3 courses

| | | |
|------------|-------------------------------|---|
| BIOL 04104 | Medical Terminology | 3 |
| BIOL 04312 | Invertebrate Zoology | 4 |
| BIOL 04330 | Animal Anatomy and Physiology | 4 |
| BIOL 04362 | Mammalogy | 4 |
| BIOL 04364 | Ornithology | 4 |
| BIOL 04412 | Plant Anatomy and Morphology | 4 |
| BIOL 04418 | Vertebrate Histology | 5 |
| BIOL 04436 | Human Anatomy | 4 |
| BIOL 04460 | Herpetology | 4 |

Choose 1-3 courses

| | | |
|------------|--------------------------------------|---|
| AGRI 03382 | Woody Landscape Plants | 3 |
| BIOL 04261 | Local Flora | 2 |
| BIOL 04351 | Marine Science I: Oceanography | 3 |
| BIOL 04353 | Marine Science Laboratory I | 2 |
| BIOL 04352 | Marine Science II: Marine Biology | 3 |
| BIOL 04354 | Marine Science Laboratory II | 2 |
| BIOL 04366 | Entomology | 3 |
| BIOL 04420 | Environmental Issues | 4 |
| BIOL 04474 | Wildlife Management and Conservation | 2 |
| BIOL 04435 | Comparative Anatomy | 5 |
| BIOL 04576 | Methods in Plant and Animal Ecology | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |

Cell/Molecular Biology Track (23-24 hours)

Required Courses

| | | |
|------------|---------------------------------|---|
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04310 | Cell Biology | 4 |
| CHEM 24344 | Organic Chemistry II | 3 |
| CHEM 24345 | Organic Chemistry II Laboratory | 1 |
| CHEM 24562 | General Biochemistry | 3 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |

Choose one course

| | | |
|------------|-----------------------------|---|
| BIOL 04440 | Molecular Biology | 4 |
| BIOL 04444 | Immunology | 5 |
| BIOL 04511 | Techniques in Biotechnology | 4 |

Biomedical Sciences Track (23-24 hours)**Required Courses**

| | | |
|------------|---------------------------------|---|
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04310 | Cell Biology | 4 |
| CHEM 24344 | Organic Chemistry II | 3 |
| CHEM 24345 | Organic Chemistry II Laboratory | 1 |
| CHEM 24562 | General Biochemistry | 3 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |

Choose one course

| | | |
|------------|---------------------|---|
| BIOL 04435 | Comparative Anatomy | 5 |
| BIOL 04436 | Human Anatomy | 4 |

Free electives as needed to reach minimum 120 graduation hours

In order to be competitive, for admission to professional and graduate schools, as well as certain technical careers, students are strongly encouraged to complete additional elective coursework specific to their path. Please consult with your academic advisor.

Biology/Psychology Comprehensive Major, 70-77 hours: B.S.—No Minor Required

CIP: 422706

Requirements**The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| PSYC 08103 | General Psychology✓ | 3 |
| MATH 17114 | General Statistics✓ | 3 |

Institutional Requirements (4 hours)**Required Courses for Biology (17 hours)**

| | | |
|------------|-------------------------------------|---|
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04238 | Physiology Allied Health OR | 4 |
| BIOL 04330 | Animal Anatomy and Physiology OR | 4 |
| BIOL 04438 | Human Physiology | 4 |
| BIOL 04310 | Cell Biology | 4 |
| BIOL 04350 | Genetics | 4 |

| | | |
|--|----------------------------|---|
| BIOL 04491 | Biological Science Seminar | 1 |
| BIOL 04491: Must take Biology ACAT in this course. | | |

Biology Electives (7-10 hours)

Choose two courses

| | | |
|------------|----------------------|---|
| BIOL 04104 | Medical Terminology | 3 |
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04418 | Vertebrate Histology | 5 |
| BIOL 04436 | Human Anatomy | 4 |
| BIOL 04440 | Molecular Biology | 4 |
| BIOL 04444 | Immunology | 5 |

Psychology Requirements (18 hours)

| | | |
|------------|--------------------------------|---|
| PSYC 08223 | Abnormal Psychology | 3 |
| PSYC 08234 | Research Literacy | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |
| PSYC 08334 | Research Methods I | 3 |
| PSYC 08343 | Biological Psychology | 3 |
| PSYC 08443 | Advanced Biological Psychology | 3 |

Psychology Electives (6 hours)

Choose two courses from these or other approved courses

| | | |
|------------|--------------------------------------|---|
| PSYC 08310 | Cognitive Psychology | 3 |
| PSYC 08323 | Child and Adolescent Psychopathology | 3 |
| PSYC 08335 | Introduction to Case Management | 3 |
| PSYC 08344 | Drugs, Brain, and Behavior | 3 |
| PSYC 08353 | Psychology of Race and Gender | 3 |
| PSYC 08363 | Psychology of Personality | 3 |
| PSYC 08370 | Applied Behavior Analysis | 3 |
| PSYC 08383 | Psychology of Aging | 3 |
| PSYC 08438 | Principles of Counseling | 3 |
| PSYC 08365 | Social Psychology | 3 |

Collateral Requirements (16-18 hours)

| | | |
|------------|---------------------------------|---|
| MATH 17117 | Precalculus✓ | 5 |
| | OR | |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| | OR | |
| MATH 17120 | Calculus I | 4 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24242 | Organic Chemistry | 3 |
| CHEM 24243 | Organic Chemistry Laboratory | 1 |
| | OR | |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |

Collateral Electives (6-8 hours)

(choose two)

| | | |
|------------|------------------------------------|---|
| CHEM 24344 | Organic Chemistry II | 3 |
| CHEM 24362 | Elementary Biochemistry | 3 |
| CHEM 24363 | Elementary Biochemistry Laboratory | 1 |
| | OR | |
| CHEM 24562 | General Biochemistry | 3 |

| | | |
|------------|-------------------------------|---|
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |

Free electives as needed to reach minimum 120 graduation hours

Biomedical Sciences Comprehensive Major –Chiropractic Track, 64 hours: B.S.—No Minor Required

CIP: 260101

Requirements

The Northwest Core (44-47 hours)

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| MATH 17117 | Precalculus✓ | 5 |
| | OR | |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| | OR | |
| MATH 17120 | Calculus I | 4 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |

Institutional Requirements (4 hours)

Required Courses (20 hours)

| | | |
|------------|----------------------------|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04238 | Physiology Allied Health | 4 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04436 | Human Anatomy | 4 |

Collateral Courses (20 hours)

| | | |
|------------|---------------------------------|---|
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| CHEM 24344 | Organic Chemistry II | 3 |
| CHEM 24345 | Organic Chemistry II Laboratory | 1 |
| MATH 17114 | General Statistics✓ | 3 |

Courses taken at approved chiropractic schools (24 hours)

Courses taken at chiropractic college with existing articulation agreement with Northwest.

| | | |
|------------|-------------------------------|---|
| BIOL 04140 | Biochemistry I and Laboratory | 4 |
| BIOL 04418 | General Microbiology | 5 |
| | Vertebrate Histology | 6 |
| | Gross Anatomy I | 5 |
| | Neuroanatomy | 5 |

Free electives as needed to reach minimum 120 graduation hours

Data Sciences and Informatics Comprehensive Major-Molecular Biology Emphasis, 84 hours: B.S.—No Minor Required

CIP: 110802

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Core Requirements for a Major in Data Sciences and Informatics

Required Courses (52 hours)

| | | |
|------------|--|---|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17120 | Calculus I | 4 |
| MATH 17311 | Linear Algebra | 3 |
| MATH 17316 | Linear Statistical Models I | 3 |
| MATH 17318 | Linear Statistical Models II | 3 |
| MATH 17356 | Data Mining with Applications to Business and Sciences | 3 |
| CSIS 44101 | Foundations of Computing OR | 3 |
| CSIS 44130 | Computers and Information Technology | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44317 | Management Information Systems | 3 |
| CSIS 44413 | Visualization | 3 |
| CSIS 44460 | Database Systems | 3 |
| PHIL 39275 | Professional Ethics✓ | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Note: If ANY courses in the Core Requirements for this major are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

CSIS 44141 has a prerequisite of a grade of C or better in CSIS 44101 or CSIS 44130, both of which are options for the Institutional Requirement for Digital Literacy.

PHIL 39275 fulfills a Northwest Core Humanities Requirement.

ECON 52150 fulfills a Northwest Core Social Science Requirement.

Molecular Biology

Required Courses (32 hours)

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| BIOL 04140 | General Microbiology OR | 4 |
| BIOL 04310 | Cell Biology | 4 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04511 | Techniques in Biotechnology OR | 4 |

| | | |
|------------|--------------------------------|---|
| BIOL 04440 | Molecular Biology | 4 |
| BIOL 04555 | Introduction to Bioinformatics | 3 |

Note: BIOL 04106, BIOL 04107, CHEM 24114, and CHEM 24115 fulfill Northwest Core requirements. However, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Free electives as needed to reach minimum 120 graduation hours

Marine Biology Comprehensive Major, 68 hours: B.S.—No Minor Required

CIP: 261302

Requirements

The Northwest Core (44-47 hours)

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| MATH 17117 | Precalculus✓ | 5 |
| | OR | |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| | OR | |
| MATH 17120 | Calculus I | 4 |

Institutional Requirements (4 hours)

Required Courses (41 hours)

| | | |
|------------|------------------------------------|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04312 | Invertebrate Zoology | 4 |
| BIOL 04330 | Animal Anatomy and Physiology | 4 |
| BIOL 04348 | Biological Evolution and Diversity | 2 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04351 | Marine Science I: Oceanography | 3 |
| BIOL 04353 | Marine Science Laboratory I | 2 |
| BIOL 04352 | Marine Science II: Marine Biology | 3 |
| BIOL 04354 | Marine Science Laboratory II | 2 |
| BIOL 04376 | Basic Ecology | 4 |
| BIOL 04491 | Biological Science Seminar | 1 |

BIOL 04351 – BIOL 04354 are taught at the Gulf Coast Research Laboratory each summer.

Collateral Courses (23 hours)

| | | |
|------------|---------------------------------|---|
| MATH 17114 | General Statistics✓ | 3 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| PHYS 25112 | General Physics II | 3 |

| | | |
|------------|--------------------------------|---|
| PHYS 25113 | General Physics II Laboratory | 1 |
| GEOG 32365 | Geographic Information Systems | 3 |

Electives (4 hours)

| | |
|--|---|
| Advisor-approved, upper-level elective | 4 |
| Additional marine lab courses are recommended. | |

Free electives as needed to reach minimum 120 graduation hours

NOTE: Although not required, students planning graduate study are encouraged to take MATH 17120 Calculus I and either GEOL 27114/GEOL 27115 General Earth Science and Laboratory or GEOL 27110/GEOL 27111 General Geology and Laboratory.

Wildlife Ecology and Conservation Comprehensive Major, 67-68 hours: B.S.—No Minor Required

CIP: 030601

Requirements**The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| MATH 17117 | Precalculus✓ | 5 |
| | OR | |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| | OR | |
| MATH 17120 | Calculus I | 4 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| | OR | |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |

Institutional Requirements (4 hours)**Required Courses (49-50 hours)**

| | | |
|------------|-------------------------------|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04140 | General Microbiology | 4 |
| | OR | |
| BIOL 04310 | Cell Biology | 4 |
| BIOL 04238 | Physiology Allied Health | 4 |
| | OR | |
| BIOL 04330 | Animal Anatomy and Physiology | 4 |
| | OR | |
| BIOL 04430 | Plant Physiology | 4 |
| | OR | |
| BIOL 04438 | Human Physiology | 4 |
| BIOL 04261 | Local Flora | 2 |
| BIOL 04312 | Invertebrate Zoology | 4 |
| | OR | |
| BIOL 04366 | Entomology | 3 |

| | | |
|------------|--------------------------------------|---|
| BIOL 04348 | Biological Evolution and Diversity | 2 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04362 | Mammalogy | 4 |
| BIOL 04364 | Ornithology | 4 |
| BIOL 04376 | Basic Ecology | 4 |
| BIOL 04460 | Herpetology | 4 |
| BIOL 04474 | Wildlife Management and Conservation | 2 |
| BIOL 04491 | Biological Science Seminar | 1 |
| BIOL 04576 | Methods in Plant and Animal Ecology | 3 |

Collateral Courses (18 hours)

| | | |
|------------|---------------------------------|---|
| AGRI 03382 | Woody Landscape Plants | 3 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| GEOG 32365 | Geographic Information Systems | 3 |
| MATH 17114 | General Statistics✓ | 3 |

Free electives as needed to reach minimum 120 graduation hours

Although not required, students are strongly encouraged to take AGRI 03234 Fundamentals of Soil Science to supplement this program.

Wildlife Ecology and Conservation Comprehensive Major, 67-68 hours: B.A.—No Minor Required

CIP: 030601

Requirements**The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| MATH 17117 | Precalculus✓ | 5 |
| | OR | |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| | OR | |
| MATH 17120 | Calculus I | 4 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| | OR | |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |

Institutional Requirements (4 hours)**B.A. Modern Language Requirement (9 hours)**

| | |
|-----------------|---|
| Modern Language | 9 |
|-----------------|---|

All 9 hours must be in the same language.

Required Courses (46-47 hours)

| | | |
|------------|----------------------------|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04140 | General Microbiology | 4 |
| | OR | |
| BIOL 04310 | Cell Biology | 4 |

| | | |
|------------|--------------------------------------|---|
| BIOL 04238 | Physiology Allied Health OR | 4 |
| BIOL 04330 | Animal Anatomy and Physiology OR | 4 |
| BIOL 04430 | Plant Physiology OR | 4 |
| BIOL 04438 | Human Physiology | 4 |
| BIOL 04261 | Local Flora | 2 |
| BIOL 04312 | Invertebrate Zoology OR | 4 |
| BIOL 04366 | Entomology | 3 |
| BIOL 04348 | Biological Evolution and Diversity | 2 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04362 | Mammalogy | 4 |
| BIOL 04364 | Ornithology | 4 |
| BIOL 04376 | Basic Ecology | 4 |
| BIOL 04460 | Herpetology | 4 |
| BIOL 04474 | Wildlife Management and Conservation | 2 |
| BIOL 04491 | Biological Science Seminar | 1 |

Collateral Courses (18 hours)

| | | |
|------------|---------------------------------|---|
| AGRI 03382 | Woody Landscape Plants | 3 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| GEOG 32365 | Geographic Information Systems | 3 |
| MATH 17114 | General Statistics✓ | 3 |

Liberal Arts Elective (3 hours)

Cannot be used to fulfill any Northwest Core requirement. Choose three additional hours from English, Modern Languages, History, Political Science, or Social Science, with consent of advisor.

Free electives as needed to reach minimum 120 graduation hours

Although not required, students are strongly encouraged to take AGRI 03234 Fundamentals of Soil Science to supplement this program.

Biology Education Major, 59 hours: B.S.Ed., Secondary Program—No Minor Required (Certifies Grades 9-12 Endorsement Area: Biology)

CIP: 131322

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****Required Courses (48 hours)**

| | | |
|------------|-------------------------------------|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04330 | Animal Anatomy and Physiology OR | 4 |
| BIOL 04236 | Anatomy Allied Health OR | 4 |

| | | |
|------------|--|---|
| BIOL 04238 | Physiology Allied Health OR | 4 |
| BIOL 04430 | Plant Physiology OR | 4 |
| BIOL 04438 | Human Physiology OR | 4 |
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04310 | Cell Biology OR | 4 |
| CHEM 24362 | Elementary Biochemistry | 3 |
| CHEM 24363 | Elementary Biochemistry Laboratory OR | 1 |
| CHEM 24562 | General Biochemistry | 3 |
| CHEM 24563 | General Biochemistry Laboratory | 1 |
| BIOL 04348 | Biological Evolution and Diversity | 2 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04383 | Biology Practicum | 1 |
| BIOL 04420 | Environmental Issues OR | 4 |
| BIOL 04376 | Basic Ecology OR | 4 |
| GEOL 27360 | Environmental Geology | 4 |
| BIOL 04483 | Advanced Biology Practicum | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| SCED 28550 | History of Science and Technology | 3 |

Although not required, the department recommends that students take the following courses:
CHEM 24135 Laboratory Safety and MATH 17114 General Statistics.

Collateral Courses (11 hours)

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| GEOL 27110 | General Geology✓ | 3 |
| GEOL 27111 | General Geology Laboratory✓ OR | 1 |
| GEOL 27114 | General Earth Science✓ | 3 |
| GEOL 27115 | General Earth Science Laboratory✓ | 1 |

BIOL 04106, BIOL 04107, MATH 17118, GEOL 27110 and GEOL 27111 or GEOL 27114 and GEOL 27115 fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take SCED 28580 Methods in Secondary School Science as part of their professional education requirements.

Free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Biology grades 9-12.

Biology Minor, 24 hours

CIP: 260101

Requirements**The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |

Required Courses (14-16 hours)

| | | |
|------------|--|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04348 | Biological Evolution and Diversity OR | 2 |
| BIOL 04376 | Basic Ecology | 4 |

Electives (8-10 hours)

Approved biology electives to total 24 hours in the minor 8 to 10
At least 4 elective hours should be numbered over 300.

Environmental Science Interdisciplinary Minor, 28 hours

CIP: 030104

Requirements**The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| GEOL 27114 | General Earth Science✓ | 3 |
| GEOL 27115 | General Earth Science Laboratory✓ | 1 |

Required Courses (20 hours)

| | | |
|------------|---------------------------------|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04376 | Basic Ecology | 4 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| GEOL 27360 | Environmental Geology | 4 |

Electives (5 hours)

Choose at least five hours from the following:

| | | |
|------------|------------------------------|---|
| GEOL 27340 | Introduction to Hydrogeology | 3 |
| BIOL 04420 | Environmental Issues | 4 |
| GEOL 27515 | Environmental Regulations | 2 |

| | | |
|------------|-----------------------------------|---|
| GEOG 32401 | Conservation of Natural Resources | 3 |
|------------|-----------------------------------|---|

Advisor-approved electives (3 hours)

Choose courses from the following to total 28 hours for the minor:

| | | |
|------------|--------------------------------------|---|
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04474 | Wildlife Management and Conservation | 2 |
| BIOL 04576 | Methods in Plant and Animal Ecology | 3 |
| GEOG 32361 | Climatology | 3 |
| GEOG 27424 | Geochemistry | 3 |
| GEOG 27530 | Sedimentology | 4 |
| | Other courses as approved by advisor | |

Internship, Undergraduate Research, Problems courses, and Special Investigations may also be taken as approved by the advisor.

No biology course in the Environmental Science Minor may also be counted toward any biology major. Therefore, biology majors who select this minor must replace all biology courses in the minor with an equal number of hours in advisor-approved electives. At least eight of these replacement hours must be in geology, geography, chemistry and/or agriculture courses.

If combined with the B.A. in Geology, the student must add an additional 4-hour course to achieve the 56-hour combined minimum number of hours required for the major plus the minor.

No systematic electives may count for both a major in geology or geography and this minor.

Chemistry / 24**Chemistry Comprehensive Major, A.C.S. Accredited, 75-76 hours:
B.S.—No Minor Required**

CIP: 400501

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****Required Courses (46 hours)**

| | | |
|------------|---|---|
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24135 | Laboratory Safety | 2 |
| CHEM 24322 | Analytical Chemistry | 3 |
| CHEM 24323 | Analytical Chemistry Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| CHEM 24344 | Organic Chemistry II | 3 |
| CHEM 24345 | Organic Chemistry II Laboratory | 1 |
| CHEM 24522 | Instrumental Analysis | 2 |
| CHEM 24523 | Instrumental Analysis Laboratory | 2 |
| CHEM 24532 | Physical Chemistry I | 3 |
| CHEM 24533 | Physical Chemistry I Laboratory | 1 |
| CHEM 24534 | Physical Chemistry II | 3 |
| CHEM 24535 | Physical Chemistry II Laboratory | 1 |
| CHEM 24552 | Advanced Inorganic Chemistry | 3 |
| CHEM 24555 | Inorganic Synthesis Laboratory | 1 |
| CHEM 24562 | General Biochemistry | 3 |
| CHEM 24592 | Chemistry Seminar | 1 |
| | Chemistry electives from courses numbered above 400 | 3 |

Collateral Courses (29-30 hours)

| | | |
|------------|---|---|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17120 | Calculus I | 4 |
| MATH 17121 | Calculus II | 5 |
| MATH 17321 | Calculus III OR | 4 |
| MATH 17311 | Linear Algebra OR | 3 |
| MATH 17361 | Differential Equations | 3 |
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |
| PHYS 25230 | Fundamentals of Classical Physics II | 4 |
| PHYS 25231 | Fundamentals of Classical Physics II Laboratory | 1 |
| BIOL 04102 | General Biology✓ | 3 |
| BIOL 04103 | General Biology Laboratory✓ OR | 1 |
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |

Note: If any courses in this program are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Free electives as needed to reach 120 graduation hours**Chemistry Major, 63-70 hours: B.S.—No Minor Required****CIP: 400501****Areas of Emphasis: General, Biochemistry, and Medicinal Chemistry**

This degree program is designed to give students the opportunity to study in chemistry with several areas of concentrations (emphasis) that allow students to tailor the major to their individual interests and specific academic needs. While the General emphasis provides students with a broader chemistry background, the Biochemistry emphasis will provide training for a future career and/or graduate level in training in biochemistry, cellular/molecular biology, and biotechnology. The Medicinal Chemistry emphasis prepares students for a career in the pharmaceutical industry, regulatory government agency, or graduate studies in Medicinal Chemistry/related discipline. This emphasis meets the requirements for pre-professional training in medicine, and may partially or completely fulfill pre-pharmacy requirements for Pharm D programs. The core courses are required of all students, and each emphasis area has additional specific requirements.

Core Courses for a Major in Chemistry, 22 hours**Courses**

| | | |
|------------|---------------------------------|---|
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24322 | Analytical Chemistry | 3 |
| CHEM 24323 | Analytical Chemistry Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| CHEM 24344 | Organic Chemistry II | 3 |
| CHEM 24345 | Organic Chemistry II Laboratory | 1 |
| CHEM 24592 | Chemistry Seminar | 1 |

Chemistry: General Emphasis, 65-66 hours**The Northwest Core (44-47 hours)**

Institutional Requirements (4 hours)**Required Courses (52-53 hours)**

| | | |
|------------|--|----|
| | Chemistry Core | 22 |
| CHEM 24135 | Laboratory Safety | 2 |
| CHEM 24532 | Physical Chemistry I | 3 |
| CHEM 24533 | Physical Chemistry I Laboratory | 1 |
| CHEM 24534 | Physical Chemistry II | 3 |
| CHEM 24535 | Physical Chemistry II Laboratory | 1 |
| CHEM 24552 | Advanced Inorganic Chemistry OR | 3 |
| CHEM 24522 | Instrumental Analysis | 2 |
| CHEM 24523 | Instrumental Analysis Laboratory | 2 |
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17121 | Calculus II | 5 |
| PHYS 25230 | Fundamentals of Classical Physics II | 4 |
| PHYS 25231 | Fundamentals of Classical Physics II Laboratory | 1 |
| | Department approved electives chosen from physics, chemistry, mathematics, biology, or computer science | 4 |

Note: CSIS 44130 Computers and Information Technology is a prerequisite for programming courses in computer science.

Collateral Courses (13 hours)

| | | |
|------------|---|---|
| BIOL 04102 | General Biology✓ | 3 |
| BIOL 04103 | General Biology Laboratory✓ OR | 1 |
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| MATH 17120 | Calculus I | 4 |
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |

Note: If any courses in this program are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Free Electives as needed to reach 120 graduation hours**Chemistry: Biochemistry Emphasis, 63-66 hours****The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****Required Courses (52-53 hours)**

| | | |
|------------|---|----|
| | Chemistry Core | 22 |
| CHEM 24562 | General Biochemistry | 3 |
| CHEM 24563 | General Biochemistry Laboratory | 1 |
| CHEM 24566 | Macromolecular Structure | 3 |
| CHEM 24567 | Macromolecular Structure Laboratory OR | 1 |
| CHEM 24520 | Protein Chemistry | 4 |
| BIOL 04310 | Cell Biology | 4 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04440 | Molecular Biology | 4 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory OR | 1 |

| | | |
|------------|--|---|
| PHYS 25230 | Fundamentals of Classical Physics II | 4 |
| PHYS 25231 | Fundamentals of Classical Physics II Laboratory | 1 |
| | Approved electives from chemistry or biology at or above 300-level | 6 |

Collateral Courses (11-13 hours)

| | | |
|------------|---|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| MATH 17120 | Calculus I OR | 4 |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ OR | 1 |
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |

Note: If any courses in this program are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Free Electives as needed to reach 120 graduation hours**Chemistry: Medicinal Chemistry Emphasis, 67-70 hours****The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****Required Courses (47-48 hours)**

| | | |
|------------|---|----|
| | Chemistry Core | 22 |
| CHEM 24562 | General Biochemistry | 3 |
| CHEM 24436 | Medicinal Chemistry I | 3 |
| CHEM 24438 | Medicinal Chemistry II | 3 |
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04310 | Cell Biology | 4 |
| BIOL 04350 | Genetics | 4 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory OR | 1 |
| PHYS 25230 | Fundamentals of Classical Physics II | 4 |
| PHYS 25231 | Fundamentals of Classical Physics II Laboratory | 1 |

CHEM 24436 and CHEM 24438 are online courses taken through University of Florida or other accredited institution.

Collateral Courses (12-14 hours)

| | | |
|------------|---|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| MATH 17120 | Calculus I OR | 4 |
| MATH 17117 | Precalculus✓ | 5 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ OR | 1 |
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |

Note: If any courses in this program are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Choose a minimum of two courses from the following (8 hours):

| | | |
|------------|-------------------------------------|---|
| BIOL 04438 | Human Physiology | 4 |
| BIOL 04440 | Molecular Biology | 4 |
| BIOL 04436 | Human Anatomy | 4 |
| CHEM 24522 | Instrumental Analysis AND | 2 |
| CHEM 24523 | Instrumental Analysis Laboratory | 2 |
| CHEM 24534 | Physical Chemistry II AND | 3 |
| CHEM 24535 | Physical Chemistry II Laboratory | 1 |
| CHEM 24552 | Advanced Inorganic Chemistry AND | 3 |
| CHEM 24555 | Inorganic Synthesis Laboratory | 1 |

Note: BIOL 04114 General Zoology and BIOL 04115 General Zoology Laboratory are prerequisites for BIOL 04436 and BIOL 04438. Students applying to medical or pharmacy programs are encouraged to consult with their advisor and the school of interest to determine specific admission requirements and tailor their curriculum accordingly.

Free Electives as needed to reach 120 graduation hours

Chemistry Major, 39 hours: B.A.—Minor Required

CIP: 400501

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

B.A. Modern Language Requirement (9 hours)

Modern Language 9

All 9 hours must be in the same language.

Required Courses (28 hours)

| | | |
|------------|---|---|
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24322 | Analytical Chemistry | 3 |
| CHEM 24323 | Analytical Chemistry Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| CHEM 24344 | Organic Chemistry II | 3 |
| CHEM 24592 | Chemistry Seminar | 1 |
| | Chemistry electives from courses numbered above 300 | 7 |

Collateral Courses (11 hours)

| | | |
|------------|-----------------------------------|---|
| BIOL 04102 | General Biology✓ | 3 |
| BIOL 04103 | General Biology Laboratory✓ | 1 |
| | OR | |
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| MATH 17118 | Precalculus Algebra✓ | 3 |

| | | |
|------------|-------------------------------------|---|
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ OR | 1 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |

Note: If any courses in this program are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Chemistry Education Major, 59 hours: B.S.Ed., Secondary Program (Certifies Grades 9-12 Endorsement Area: Chemistry)

CIP: 131323

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (34 hours)

| | | |
|------------|---|--------|
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24135 | Laboratory Safety | 2 |
| CHEM 24322 | Analytical Chemistry | 3 |
| CHEM 24323 | Analytical Chemistry Laboratory | 1 |
| CHEM 24242 | Organic Chemistry | 3 |
| CHEM 24243 | Organic Chemistry Laboratory OR | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| CHEM 24370 | Chemistry Practicum | 1 to 3 |
| CHEM 24532 | Physical Chemistry I OR | 3 |
| CHEM 24534 | Physical Chemistry II | 3 |
| CHEM 24362 | Elementary Biochemistry OR | 3 |
| CHEM 24562 | General Biochemistry | 3 |
| SCED 28550 | History of Science and Technology | 3 |
| CHEM 24511 | Aquatic and Soil Environmental Chemistry | 3 |
| CHEM 24512 | Aquatic and Soil Environmental Chemistry Laboratory | 1 |

Choose one laboratory course:

| | | |
|------------|------------------------------------|---|
| CHEM 24363 | Elementary Biochemistry Laboratory | 1 |
| CHEM 24533 | Physical Chemistry I Laboratory | 1 |
| CHEM 24535 | Physical Chemistry II Laboratory | 1 |
| CHEM 24563 | General Biochemistry Laboratory | 1 |

Collateral Courses (25 hours)

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| GEOL 27110 | General Geology✓ | 3 |
| GEOL 27111 | General Geology Laboratory✓ | 1 |

| | | |
|-------------------------|---|---|
| | OR | |
| GEOL 27114 | General Earth Science✓ | 3 |
| GEOL 27115 | General Earth Science Laboratory✓ | 1 |
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17120 | Calculus I | 4 |
| MATH 17121 | Calculus II | 5 |
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |
| BIOL 04106 & BIOL 04107 | | |

MATH 17120

GEOL 27110 & GEOL 27111 or GEOL 27114 & GEOL 27115

These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take SCED 28580 Methods in Secondary School Science as part of their professional education requirements.

| | | |
|------------|-------------------------------------|---|
| SCED 28580 | Methods in Secondary School Science | 3 |
|------------|-------------------------------------|---|

Free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S. Ed. Secondary Program, will meet Missouri teacher certification standards for Chemistry grades 9-12.

Chemistry Minor, 29 hours

CIP: 400501

If the requirements for both the minor in Chemistry and the minor in Biochemistry have been met, the student must choose one of the minors.

Requirements

Required Courses (22 hours)

| | | |
|------------|---|---|
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24322 | Analytical Chemistry | 3 |
| CHEM 24323 | Analytical Chemistry Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| | Chemistry electives from courses numbered above 300 | 5 |

CHEM 24114 and CHEM 24115 cannot be used to fulfill any Northwest Core requirement.

Collateral Courses (7 hours)

| | | |
|------------|-------------------------------|---|
| MATH 17118 | Precalculus Algebra✓ | 3 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| | OR | |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |

Note: If any courses in the collateral area are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Note: Students who are also obtaining degrees in the biology disciplines must take a sufficient number of chemistry courses numbered 300 or above as electives to insure that the requirement of 12 hours of unique coursework is met for this minor.

Biochemistry Minor, 32 hours

CIP: 260202

Students majoring in chemistry are not permitted to select this minor.

If the requirements for both the minor in Chemistry and the minor in Biochemistry have been met, the student must choose one of the minors.

Requirements

Required Courses (21 hours)

| | | |
|------------|---------------------------------|---|
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| CHEM 24344 | Organic Chemistry II | 3 |
| CHEM 24345 | Organic Chemistry II Laboratory | 1 |
| CHEM 24562 | General Biochemistry | 3 |
| CHEM 24563 | General Biochemistry Laboratory | 1 |

CHEM 24114 and CHEM 24115 cannot be used to fulfill any Northwest Core requirement.

Collateral Courses (11 hours)

| | | |
|------------|-----------------------------------|---|
| BIOL 04310 | Cell Biology | 4 |
| | OR | |
| BIOL 04350 | Genetics | 4 |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| | OR | |
| AGRI 03130 | Plant Science✓ | 4 |

Note: If any courses in the collateral area are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total numbers of credit hours required for graduation.

Note: Students who are also obtaining degrees in the biology disciplines must take a sufficient number of chemistry courses numbered 300 or above as electives to insure that the requirement of 12 hours of unique coursework is met for this minor.

Chemistry Education Minor, 51 hours: B.S.Ed. (Certifies 9-12 Endorsement Area: Chemistry)

CIP: 131323

Requirements

Required Courses (30 hours)

| | | |
|------------|---------------------------------|---|
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |

| | | |
|------------|------------------------------------|--------|
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24135 | Laboratory Safety | 2 |
| CHEM 24322 | Analytical Chemistry | 3 |
| CHEM 24323 | Analytical Chemistry Laboratory | 1 |
| CHEM 24242 | Organic Chemistry | 3 |
| CHEM 24243 | Organic Chemistry Laboratory OR | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| CHEM 24370 | Chemistry Practicum | 1 to 3 |
| CHEM 24534 | Physical Chemistry II | 3 |
| CHEM 24535 | Physical Chemistry II Laboratory | 1 |
| CHEM 24362 | Elementary Biochemistry OR | 3 |
| CHEM 24562 | General Biochemistry | 3 |
| SCED 28550 | History of Science and Technology | 3 |

Collateral Courses (21 hours)

| | | |
|------------|---|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| GEOL 27114 | General Earth Science✓ | 3 |
| GEOL 27115 | General Earth Science Laboratory✓ | 1 |
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |
| MATH 17120 | Calculus I | 4 |
| BIOL 04420 | Environmental Issues OR | 4 |
| BIOL 04376 | Basic Ecology OR | 4 |
| GEOL 27360 | Environmental Geology | 4 |

Note: If any courses in the collateral area are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take SCED 28580 Methods in Secondary School Science as part of their professional education requirements.

| | | |
|------------|-------------------------------------|---|
| SCED 28580 | Methods in Secondary School Science | 3 |
|------------|-------------------------------------|---|

This minor, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Chemistry grades 9-12.

Geology / 27**Geology Core Requirements****Requirements****Courses (17 hours)**

| | | |
|------------|-----------------------------------|---|
| GEOL 27110 | General Geology✓ | 3 |
| GEOL 27111 | General Geology Laboratory✓ OR | 1 |
| GEOL 27114 | General Earth Science✓ | 3 |
| GEOL 27115 | General Earth Science Laboratory✓ | 1 |

| | | |
|------------|--------------------|---|
| GEOL 27212 | Historical Geology | 4 |
| GEOL 27220 | Mineralogy | 4 |
| GEOL 27420 | Petrology | 4 |
| GEOL 27498 | Senior Seminar | 1 |

Geology Major, 31 hours: B.A.—Minor Required

CIP: 400601

Requirements

The Northwest Core (44-47 hours)

Must include the following:

| | | |
|------------|---------------------------------|---|
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ | 1 |
| | OR | |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |

Institutional Requirements (4 hours)

B.A. Modern Language Requirement (9 hours)

Modern Language 9

All 9 hours must be in the same language.

Required Courses (31 hours)

| | | |
|------------|--|----|
| GEOL 27360 | Geology Core | 17 |
| | Environmental Geology | 4 |
| | Geology electives (No more than 2 field trips) | 10 |

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Geology Comprehensive Major, 54-60 hours: B.S.—No Minor Required

CIP: 400601

Areas of Concentration

General Geology

Environmental Geology

General Geology Concentration (55-60 hours)

The Northwest Core (44-47 hours)

Must include the following:

| | | |
|------------|---------------------------------|---|
| MATH 17118 | Precalculus Algebra✓ | 3 |
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ | 1 |
| | OR | |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| BIOL 04102 | General Biology✓ | 3 |
| BIOL 04103 | General Biology Laboratory✓ | 1 |

Institutional Requirements (4 hours)

Required Courses

Required Courses (35 hours)

| | | |
|------------|--|---------|
| GEOL 27440 | Geology Core Stratigraphy OR | 17 4 |
| GEOL 27530 | Sedimentology | 4 |
| GEOL 27450 | Structural Geology | 4 |
| GEOL 27540 | Paleontology | 4 |
| | Geology Summer Field Camp (approved through institution) | 6 |

Required Geology Electives (6-8 hours)

Choose one course from each group.

Group I

| | | |
|------------|--------------------|---|
| GEOL 27423 | Economic Geology | 4 |
| GEOL 27424 | Geochemistry | 3 |
| GEOL 27510 | Geomorphology | 3 |
| GEOL 27555 | X-Ray Analysis | 3 |
| GEOL 27560 | Optical Mineralogy | 3 |

Group II

| | | |
|------------|------------------------------|---|
| GEOG 32361 | Climatology | 3 |
| GEOG 32463 | Remote Sensing | 3 |
| GEOL 27335 | Physical Oceanography | 3 |
| GEOL 27340 | Introduction to Hydrogeology | 3 |
| GEOL 27360 | Environmental Geology | 4 |
| GEOL 27515 | Environmental Regulations | 2 |

Required Collateral Courses (14-17 hours)

| | | |
|------------|---|--------|
| MATH 17119 | Trigonometry OR any calculus course | 2 2 |
|------------|---|--------|

Chemistry:

One course with laboratory beyond the directed Northwest Core course; choose from:

| | | |
|------------|---------------------------------------|---|
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ OR | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |

Physics:

| | | |
|------------|--------------------------------------|---|
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ AND | 1 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |

OR

| | | |
|------------|--|---|
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ AND | 1 |
| PHYS 25230 | Fundamentals of Classical Physics II | 4 |
| PHYS 25231 | Fundamentals of Classical Physics II Laboratory | 1 |

Free electives as needed to reach minimum 120 graduation hours**Environmental Geology Concentration (54)****The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|------------|-------------------------------------|---|
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ OR | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |

Institutional Requirements (4 hours)**Required Courses (27)**

| | | |
|------------|--|--------|
| | Geology Core | 17 |
| GEOL 27340 | Introduction to Hydrogeology | 3 |
| GEOL 27360 | Environmental Geology | 4 |
| GEOL 27455 | Geologic Field Methods OR Field Camp in Geology, Hydrogeology, or Environmental Geology | 3 3 |

Required Collateral Courses (12)

(choose a combination to total 12 hours)

| | | |
|------------|--|---|
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| BIOL 04420 | Environmental Issues | 4 |
| CHEM 24242 | Organic Chemistry AND | 3 |
| CHEM 24243 | Organic Chemistry Laboratory | 1 |
| GEOG 32201 | Maps and Spatial Reasoning | 3 |
| GEOG 32207 | GPS Fundamentals | 3 |
| GEOG 32221 | Economic Globalization | 3 |
| GEOG 32361 | Climatology | 3 |
| GEOG 32362 | Web Mapping | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |
| GEOG 32462 | Digital Cartography and Geovisualization | 3 |
| GEOG 32463 | Remote Sensing | 3 |
| GEOG 32401 | Conservation of Natural Resources | 3 |
| GEOG 32522 | Cities and Urban Design | 3 |
| GEOG 32565 | Advanced Geographic Information Systems | 3 |
| GEOL 27515 | Environmental Regulations | 2 |
| MATH 17114 | General Statistics✓ | 3 |

Required Geology Electives (15)

Choose 15 hours from the following courses:

| | | |
|------------|------------------------------|---|
| GEOL 27326 | Geology of the Natural Parks | 3 |
| GEOL 27335 | Physical Oceanography | 3 |
| GEOL 27423 | Economic Geology | 4 |
| GEOL 27424 | Geochemistry | 3 |
| GEOL 27440 | Stratigraphy | 4 |
| GEOL 27450 | Structural Geology | 4 |
| GEOL 27510 | Geomorphology | 3 |
| GEOL 27530 | Sedimentology | 4 |
| GEOL 27540 | Paleontology | 4 |
| GEOL 27555 | X-Ray Analysis | 3 |
| GEOL 27560 | Optical Mineralogy | 3 |

Free electives as needed to reach minimum 120 graduation hours**Earth Science Education Major, 51 hours: B.S.Ed., Secondary Program (Certifies Grades 9-12 Endorsement Area: Earth Science)**

CIP: 131337

This major meets Grades 9-12 certification (Endorsement Area: Earth Science Education) in Missouri when one science discipline is completed by the student.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (28 hours)

| | | |
|------------|--|---|
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| GEOL 27110 | General Geology✓ | 3 |
| GEOL 27111 | General Geology Laboratory✓ OR | 1 |
| GEOL 27114 | General Earth Science✓ | 3 |
| GEOL 27115 | General Earth Science Laboratory✓ | 1 |
| PHSC 40122 | Descriptive Astronomy✓ | 3 |
| PHSC 40123 | Descriptive Astronomy Laboratory✓ | 1 |
| GEOG 32360 | Dynamic and Synoptic Meteorology OR | 3 |
| GEOG 32361 | Climatology | 3 |
| GEOL 27212 | Historical Geology | 4 |
| GEOL 27305 | Practicum in Teaching Laboratory | 1 |
| GEOL 27360 | Environmental Geology | 4 |
| SCED 28550 | History of Science and Technology | 3 |

Earth Science Electives (8 hours)

Choose 8 hours from the following:

| | | |
|------------|-----------------------|---|
| GEOL 27220 | Mineralogy | 4 |
| GEOL 27335 | Physical Oceanography | 3 |
| GEOL 27420 | Petrology | 4 |
| GEOL 27540 | Paleontology | 4 |

Collateral Courses (15)

| | | |
|-------------------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| BIOL 04106 & BIOL 04107 | | |

MATH 17118

CHEM 24114 & CHEM 24115 or PHYS 25110 & PHYS 25111

These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take SCED 28580 Methods in Secondary School Science as part of their professional education requirements.

SCED 28580 Methods in Secondary School Science 3

Free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Earth Science grades 9-12.

Geology Minor, 25 hours

CIP: 400601

Requirements

The Northwest Core (44-47 hours)

Must include the following:

| | | |
|------------|---------------------------------|---|
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ | 1 |
| | OR | |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |

Required Courses (12 hours)

| | | |
|------------|-----------------------------------|---|
| GEOL 27110 | General Geology✓ | 3 |
| GEOL 27111 | General Geology Laboratory✓ | 1 |
| | OR | |
| GEOL 27114 | General Earth Science✓ | 3 |
| GEOL 27115 | General Earth Science Laboratory✓ | 1 |
| GEOL 27212 | Historical Geology | 4 |
| GEOL 27220 | Mineralogy | 4 |

Required Geology Electives (13 hours)

Must include one 400- or 500-level, 3-5 credit hour course from Geology offerings and no more than one field trip

Environmental Science Interdisciplinary Minor, 28 hours

CIP: 030104

Requirements

The Northwest Core (44-47 hours)

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| GEOL 27114 | General Earth Science✓ | 3 |
| GEOL 27115 | General Earth Science Laboratory✓ | 1 |

Required Courses (20 hours)

| | | |
|------------|---------------------------------|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04376 | Basic Ecology | 4 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| GEOL 27360 | Environmental Geology | 4 |

Electives (5 hours)

Choose at least five hours from the following:

| | | |
|------------|------------------------------|---|
| GEOL 27340 | Introduction to Hydrogeology | 3 |
| BIOL 04420 | Environmental Issues | 4 |

| | | |
|------------|-----------------------------------|---|
| GEO 27515 | Environmental Regulations | 2 |
| GEOG 32401 | Conservation of Natural Resources | 3 |

Advisor-approved electives (3 hours)

Choose courses from the following to total 28 hours for the minor:

| | | |
|------------|--------------------------------------|---|
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04474 | Wildlife Management and Conservation | 2 |
| BIOL 04576 | Methods in Plant and Animal Ecology | 3 |
| GEOG 32361 | Climatology | 3 |
| GEO 27424 | Geochemistry | 3 |
| GEO 27530 | Sedimentology | 4 |
| | Other courses as approved by advisor | |

Internship, Undergraduate Research, Problems courses, and Special Investigations may also be taken as approved by the advisor.

No biology course in the Environmental Science Minor may also be counted toward any biology major. Therefore, biology majors who select this minor must replace all biology courses in the minor with an equal number of hours in advisor-approved electives. At least eight of these replacement hours must be in geology, geography, chemistry and/or agriculture courses.

If combined with the B.A. in Geology, the student must add an additional 4-hour course to achieve the 56-hour combined minimum number of hours required for the major plus the minor.

No systematic electives may count for both a major in geology or geography and this minor.

Environmental Geology Professional Certificate Program, 30 hours

CIP: 400601

Designed to equip students with a common set of background skills required by an environmental geologist such as, water and soil sampling, rock and mineral identification, geospatial methods and mapping, hydrogeological and geophysical methods, data analysis, presentation and scientific writing, to enable to take the lead in environmental consultation.

This certificate program is intended to be completed in conjunction with a Bachelor's degree; it is not a stand-alone program.

Requirements**Required Introductory Geology Courses (4 hours)**

| | | |
|-----------|-----------------------------------|---|
| GEO 27110 | General Geology✓ | 3 |
| GEO 27111 | General Geology Laboratory✓ | 1 |
| | OR | |
| GEO 27114 | General Earth Science✓ | 3 |
| GEO 27115 | General Earth Science Laboratory✓ | 1 |

Required Environmental Geology Courses (18 hours)

| | | |
|-----------|---|---|
| GEO 27340 | Introduction to Hydrogeology | 3 |
| GEO 27360 | Environmental Geology | 4 |
| GEO 27424 | Geochemistry | 3 |
| GEO 27455 | Geologic Field Methods | 3 |
| GEO 27515 | Environmental Regulations | 2 |
| GEO 27595 | Geologic Data Analysis and Scientific Writing | 3 |

Spatial Analysis Requirement (3 hours)

Choose three credit hours from the list below.

| | | |
|------------|--------------------------------|---|
| GEOG 32207 | GPS Fundamentals | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |
| GEOG 32463 | Remote Sensing | 3 |

Note: GEOG 32365 has a prerequisite of GEOG 32201 or junior standing and GEOG 32463 has a prerequisite of a GEOG 32201 or permission of the instructor.

Electives (5 hours)

Choose five credit hours from the list below.

| | | |
|------------|--|--------|
| BIOL 04420 | Environmental Issues | 4 |
| GEOG 32401 | Conservation of Natural Resources | 3 |
| GEOL 27599 | Special Investigations in the Earth Sciences | 1 to 3 |

Note: BIOL 04420 has prerequisites of BIOL 04106 and BIOL 04107 with a minimum grade of C and CHEM 24114 and CHEM 24115.

Physics / 25

Physics Comprehensive Major, 66-67 hours: B.S.—No Minor Required CIP: 400801

The Physics degree program is split into a series of Emphases that allow students to optimize the content for their specific interests. All Emphases have the same Core component of Physics and Mathematics courses and then concentration areas associated with the emphasis. The General Physics emphasis is the standard physics degree program containing a broad base of Physics and Mathematics courses. Physics intersects with many other disciplines producing many academic and applied fields, including job prospects in the industrial sector. The current emphases (Biology, Computer Science, and Geology) were developed with the respective disciplines to deliver the best conjunction between Physics and that subject. When beginning a program with the core courses, there is the flexibility to switch between emphases and even between majors, to give the student a wide range of choice in their prospective field of study.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (33 hours)

| | | |
|------------|---|--------|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| MATH 17120 | Calculus I | 4 |
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |
| PHYS 25230 | Fundamentals of Classical Physics II | 4 |
| PHYS 25231 | Fundamentals of Classical Physics II Laboratory | 1 |
| PHYS 25350 | Introduction to Quantum Mechanics | 3 |
| PHYS 25352 | Modern Physics | 3 |
| PHYS 25450 | Computational Physics | 3 |
| PHYS 25489 | Physics Practicum | 1 to 2 |
| | OR | |
| PHYS 25499 | Special Investigations in Physics | 1 to 3 |
| | OR | |
| PHYS 25599 | Selected Advanced Topics | 1 to 4 |

Note: PHYS 25489, PHYS 25499, and PHYS 25599 should be taken for 2 credits.

BIOL 04106, BIOL 04107, CHEM 24114, CHEM 24115 and MATH 17120 may fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Required Collateral Courses (15 hours)

| | | |
|------------|-------------|---|
| MATH 17121 | Calculus II | 5 |
|------------|-------------|---|

| | | |
|------------|------------------------------|---|
| MATH 17321 | Calculus III | 4 |
| MATH 17361 | Differential Equations | 3 |
| CSIS 44141 | Computer Programming I OR | 3 |
| CSIS 44149 | Scientific Computing | 3 |

Choose one of the emphases listed below**General Physics Emphasis (18 hours)****Required Courses (15 hours)**

| | | |
|------------|----------------------------------|--------|
| PHYS 25325 | Classical Mechanics I | 3 |
| PHYS 25326 | Classical Mechanics I Laboratory | 1 |
| PHYS 25330 | Electricity and Magnetism I | 3 |
| PHYS 25332 | Electronics | 3 |
| PHYS 25333 | Electronics Laboratory | 1 |
| PHYS 25420 | Advanced Physics Laboratory | 1 |
| PHYS 25479 | Undergraduate Research | 1 to 3 |

PHYS 25420 should be taken for a total of 2 credits.

PHYS 25479 should be taken for a total of 2 credits.

Elective Courses (3 hours)

Choose 3 hours from the following courses:

| | | |
|------------|-------------------|---|
| PHYS 25360 | Quantum Mechanics | 3 |
| PHYS 25430 | Optics | 3 |

Biological Science Emphasis (19 hours)**Required Courses (16 hours)**

| | | |
|------------|----------------------------|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04440 | Molecular Biology | 4 |

Elective Courses (3 hours)

Choose 3 hours from the following courses:

| | | |
|------------|----------------------------------|---|
| BIOL 04511 | Techniques in Biotechnology | 4 |
| BIOL 04555 | Introduction to Bioinformatics | 3 |
| PHYS 25325 | Classical Mechanics I | 3 |
| PHYS 25326 | Classical Mechanics I Laboratory | 1 |
| PHYS 25330 | Electricity and Magnetism I | 3 |
| PHYS 25332 | Electronics | 3 |
| PHYS 25333 | Electronics Laboratory | 1 |
| PHYS 25360 | Quantum Mechanics | 3 |
| PHYS 25430 | Optics | 3 |

Computer Science Emphasis (18 hours)**Required Courses (12 hours)**

| | | |
|------------|-------------------------|---|
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44242 | Data Structures | 3 |
| CSIS 44345 | Computer Organization | 3 |

| | | |
|------------|---|---|
| CSIS 44249 | Building Blocks of Theoretical Computer Science OR | 3 |
| CSIS 44517 | Big Data | 3 |

Elective Courses (6 hours)

Choose 6 hours from the following courses:

| | | |
|------------|-----------------------------|---|
| CSIS 44349 | A Survey of Algorithms | 3 |
| CSIS 44550 | Operating Systems | 3 |
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17311 | Linear Algebra | 3 |
| MATH 17316 | Linear Statistical Models I | 3 |
| PHYS 25330 | Electricity and Magnetism I | 3 |
| PHYS 25332 | Electronics | 3 |
| PHYS 25333 | Electronics Laboratory | 1 |
| PHYS 25360 | Quantum Mechanics | 3 |
| PHYS 25430 | Optics | 3 |

Geological Science Emphasis (19 hours)

Required Courses (16 hours)

| | | |
|------------|-----------------------------|---|
| GEOL 27110 | General Geology✓ | 3 |
| GEOL 27111 | General Geology Laboratory✓ | 1 |
| GEOL 27220 | Mineralogy | 4 |
| GEOL 27212 | Historical Geology | 4 |
| GEOL 27420 | Petrology | 4 |

Elective Courses (3 hours)

Choose 3 hours from the following courses:

| | | |
|------------|----------------------------------|---|
| GEOL 27440 | Stratigraphy | 4 |
| GEOL 27530 | Sedimentology | 4 |
| GEOL 27335 | Physical Oceanography | 3 |
| GEOL 27340 | Introduction to Hydrogeology | 3 |
| GEOL 27510 | Geomorphology | 3 |
| PHYS 25325 | Classical Mechanics I | 3 |
| PHYS 25326 | Classical Mechanics I Laboratory | 1 |
| PHYS 25330 | Electricity and Magnetism I | 3 |
| PHYS 25360 | Quantum Mechanics | 3 |
| PHYS 25430 | Optics | 3 |

Free electives as needed to reach minimum 120 graduation hours

Physics Science Education Major, 54 hours: B.S.Ed., Secondary Program (Certifies Grades 9-12 Endorsement Area: Earth Science)

CIP: 131329

This major meets Grades 9-12 certification (Endorsement Area can be within: *Physics Science Education*) in Missouri when one science discipline is completed by the student.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (25 hours)

| | | |
|------------|---|--------|
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |
| PHYS 25230 | Fundamentals of Classical Physics II | 4 |
| PHYS 25231 | Fundamentals of Classical Physics II Laboratory | 1 |
| PHYS 25352 | Modern Physics | 3 |
| PHYS 25430 | Optics | 3 |
| PHYS 25489 | Physics Practicum | 1 to 2 |
| MATH 17121 | Calculus II | 5 |
| SCED 28550 | History of Science and Technology | 3 |

Physics Electives (4 hours)

Choose 4 hours from the following:

| | | |
|------------|-----------------------|---|
| PHYS 25325 | Classical Mechanics I | 3 |
|------------|-----------------------|---|

| | | |
|------------|-----------------------------------|--------|
| PHYS 25326 | Classical Mechanics I Laboratory | 1 |
| PHYS 25330 | Electricity and Magnetism I | 3 |
| PHYS 25332 | Electronics | 3 |
| PHYS 25333 | Electronics Laboratory | 1 |
| PHYS 25350 | Introduction to Quantum Mechanics | 3 |
| PHYS 25420 | Advanced Physics Laboratory | 1 |
| PHYS 25450 | Computational Physics | 3 |
| PHYS 25499 | Special Investigations in Physics | 1 to 3 |

Collateral Courses (25 hours)

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| MATH 17120 | Calculus I | 4 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |

| | | |
|------------|-----------------------------------|---|
| GEOL 27110 | General Geology✓ | 3 |
| GEOL 27111 | General Geology Laboratory✓ OR | 1 |

| | | |
|------------|-----------------------------------|---|
| GEOL 27114 | General Earth Science✓ | 3 |
| GEOL 27115 | General Earth Science Laboratory✓ | 1 |

| | | |
|------------|----------------------------|---|
| BIOL 04420 | Environmental Issues OR | 4 |
|------------|----------------------------|---|

| | | |
|------------|---------------------|---|
| BIOL 04376 | Basic Ecology OR | 4 |
|------------|---------------------|---|

| | | |
|------------|-----------------------|---|
| GEOL 27360 | Environmental Geology | 4 |
|------------|-----------------------|---|

Note: If PHYS 25450 is taken, then CSIS 44141 or CSIS 44149 is an additional collateral course. If PHYS 25360 is taken, then MATH 17321 is a collateral course.

BIOL 04106 & BIOL 04107

MATH 17120

CHEM 24114 & CHEM 24115

These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take SCED 28580 Methods in Secondary School Science as part of their professional education requirements.

| | | |
|------------|-------------------------------------|---|
| SCED 28580 | Methods in Secondary School Science | 3 |
|------------|-------------------------------------|---|

Free electives as needed to reach minimum 120 graduation hours**Physics Minor, 25 hours**

CIP: 400801

Requirements**The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|------------|------------|---|
| MATH 17120 | Calculus I | 4 |
|------------|------------|---|

Required Courses (25 hours)

| | | |
|------------|---|----|
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |
| PHYS 25230 | Fundamentals of Classical Physics II | 4 |
| PHYS 25231 | Fundamentals of Classical Physics II Laboratory | 1 |
| MATH 17121 | Calculus II | 5 |
| | Physics electives from courses numbered above 300 | 10 |

Physics Education Minor, 49 hours: B.S.Ed. (Certifies Grades 9-12)

CIP: 131329

This minor meets Grades 9-12 certification (Endorsement Area can be within: **Physics** in Missouri when one science discipline is completed by the student).

Requirements

Required Courses (20 hours)

| | | |
|------------|---|--------|
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |
| PHYS 25230 | Fundamentals of Classical Physics II | 4 |
| PHYS 25231 | Fundamentals of Classical Physics II Laboratory | 1 |
| PHYS 25352 | Modern Physics | 3 |
| PHYS 25430 | Optics | 3 |
| PHYS 25489 | Physics Practicum | 1 to 2 |
| SCED 28550 | History of Science and Technology | 3 |

Collateral Courses (25 hours)

| | | |
|-------------------------|-----------------------------------|---|
| BIOL 04420 | Environmental Issues | 4 |
| | OR | |
| BIOL 04376 | Basic Ecology | 4 |
| | OR | |
| GEOL 27360 | Environmental Geology | 4 |
| GEOL 27114 | General Earth Science✓ | 3 |
| GEOL 27115 | General Earth Science Laboratory✓ | 1 |
| | OR | |
| GEOL 27110 | General Geology✓ | 3 |
| GEOL 27111 | General Geology Laboratory✓ | 1 |
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| MATH 17120 | Calculus I | 4 |
| MATH 17121 | Calculus II | 5 |
| BIOL 04106 & BIOL 04107 | | |

MATH 17120

CHEM 24114 & CHEM 24115

These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Elective Course from list (4 hours)

| | | |
|------------|-----------------------------------|---|
| PHYS 25325 | Classical Mechanics I | 3 |
| PHYS 25326 | Classical Mechanics I Laboratory | 1 |
| PHYS 25330 | Electricity and Magnetism I | 3 |
| PHYS 25332 | Electronics | 3 |
| PHYS 25333 | Electronics Laboratory | 1 |
| PHYS 25350 | Introduction to Quantum Mechanics | 3 |

| | | |
|------------|-----------------------------------|--------|
| PHYS 25360 | Quantum Mechanics | 3 |
| PHYS 25420 | Advanced Physics Laboratory | 1 |
| PHYS 25450 | Computational Physics | 3 |
| PHYS 25499 | Special Investigations in Physics | 1 to 3 |

Note: If PHYS 25450 is taken, then CSIS 44141 or CSIS 44149 is an additional collateral course. If PHYS 25360 is taken, then MATH 17321 is a collateral course.

Professional Education Requirement

See Secondary Education Program Requirements (p. 310)

SCED 28580 Methods in Secondary School School Science must be completed as part of the professional education requirements.

This minor, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Physics grades 9-12.

Nanoscale Science / 48 Degree Program

The main objectives of the courses in the nanoscience program are to provide interdisciplinary training in biology, chemistry, physics, and mathematics needed for the highly technical fields related to nanotechnology. The curriculum is composed of a core sequence required for all participants in the program as well as three emphasis tracks that allow students to focus on specific areas of interest.

Nanoscience Comprehensive Major-Biology Emphasis, 77-79 hours: B.S.—No Minor Required

CIP: 300101

This is an interdisciplinary major in conjunction with the Department of Natural Sciences and the Department of Mathematics and Statistics. Three emphasis areas are available: Nanoscience Biology, Nanoscience Chemistry, and Nanoscience Physics.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Nanoscale Science Core Courses (51-53 hours)

| | | |
|------------|---|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| BIOL 04310 | Cell Biology | 4 |
| BIOL 04350 | Genetics | 4 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ OR | 1 |
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory OR | 1 |
| PHYS 25230 | Fundamentals of Classical Physics II | 4 |

| | | |
|------------|---|---|
| PHYS 25231 | Fundamentals of Classical Physics II Laboratory | 1 |
| MATH 17114 | General Statistics✓ | 3 |
| NANO 48314 | Nanoscale Science I | 4 |
| NANO 48315 | Nanoscale Science II | 4 |
| MATH 17120 | Calculus I | 4 |
| PHIL 39276 | Biomedical Ethics✓ | 3 |

BIOL 04106 & BIOL 04107: This lecture/lab combination fulfills the Life Science requirement in the Northwest Core as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

PHYS 25110 & PHYS 25111 or PHYS 25120 & PHYS 25121: Either of these lecture/lab combinations fulfills the Physical Science requirement in the Northwest Core as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

MATH 17120: This course fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

PHIL 39276: This course fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Nanoscale Biology Emphasis Required Courses (16 hours)

| | | |
|------------|---------------------------------|---|
| BIOL 04440 | Molecular Biology | 4 |
| BIOL 04511 | Techniques in Biotechnology | 4 |
| CHEM 24344 | Organic Chemistry II | 3 |
| CHEM 24345 | Organic Chemistry II Laboratory | 1 |
| CHEM 24562 | General Biochemistry | 3 |
| CHEM 24563 | General Biochemistry Laboratory | 1 |

Nanoscale Biology Emphasis Elective Courses (10 hours)

Choose 10 credit hours from the following courses:

| | | |
|------------|-------------------------------|--------|
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04401 | Research: Cellular Biology | 1 to 3 |
| BIOL 04444 | Immunology | 5 |
| BIOL 04478 | Readings in Molecular Biology | 2 |
| BIOL 04491 | Biological Science Seminar | 1 |
| CHEM 24135 | Laboratory Safety | 2 |
| CHEM 24566 | Macromolecular Structure | 3 |
| CHEM 24520 | Protein Chemistry | 4 |

Free electives as needed to reach minimum 120 graduation hours

Note: Students with an emphasis in Nanoscale Biology may take either the General Physics or Classical Physics sequences. Students with an emphasis in Nanoscale Chemistry or Nanoscale Physics must take the Classical Physics sequence. Please see the Academic Catalog for the prerequisites for each sequence.

Nanoscience Comprehensive Major-Chemistry Emphasis, 81 hours: B.S.-No Minor Required

CIP: 300101

This is an interdisciplinary major in conjunction with the Department of Natural Sciences, and the Department of Mathematics and Statistics. Three emphasis areas are available: Nanoscience Biology, Nanoscience Chemistry, and Nanoscience Physics.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)**Required Nanoscale Science Core Courses (53 hours)**

| | | |
|------------|---|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| BIOL 04310 | Cell Biology | 4 |
| BIOL 04350 | Genetics | 4 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |
| PHYS 25230 | Fundamentals of Classical Physics II | 4 |
| PHYS 25231 | Fundamentals of Classical Physics II Laboratory | 1 |
| MATH 17114 | General Statistics✓ | 3 |
| NANO 48314 | Nanoscale Science I | 4 |
| NANO 48315 | Nanoscale Science II | 4 |
| MATH 17120 | Calculus I | 4 |
| PHIL 39276 | Biomedical Ethics✓ | 3 |

BIOL 04106 & BIOL 04107: This lecture/lab combination fulfills the Life Science requirement in the Northwest Core as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

PHYS 25120 & PHYS 25121: This lecture/lab combination fulfills the Physical Science requirement in the Northwest Core as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

MATH 17120: This course fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

PHIL 39276: This course fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Nanoscale Chemistry Emphasis Required Courses (16 hours)

| | | |
|------------|---------------------------------|---|
| MATH 17121 | Calculus II | 5 |
| CHEM 24322 | Analytical Chemistry | 3 |
| CHEM 24323 | Analytical Chemistry Laboratory | 1 |
| CHEM 24532 | Physical Chemistry I | 3 |
| CHEM 24552 | Advanced Inorganic Chemistry | 3 |
| CHEM 24555 | Inorganic Synthesis Laboratory | 1 |

Nanoscale Chemistry Emphasis Electives (12 hours)

Choose 12 credit hours from the following courses:

| | | |
|------------|-------------------------------------|--------|
| CHEM 24135 | Laboratory Safety | 2 |
| CHEM 24344 | Organic Chemistry II | 3 |
| CHEM 24345 | Organic Chemistry II Laboratory | 1 |
| CHEM 24499 | Special Investigations in Chemistry | 1 to 3 |
| CHEM 24520 | Protein Chemistry | 4 |
| CHEM 24522 | Instrumental Analysis | 2 |
| CHEM 24523 | Instrumental Analysis Laboratory | 2 |
| CHEM 24533 | Physical Chemistry I Laboratory | 1 |
| CHEM 24534 | Physical Chemistry II | 3 |
| CHEM 24535 | Physical Chemistry II Laboratory | 1 |
| CHEM 24562 | General Biochemistry | 3 |
| CHEM 24563 | General Biochemistry Laboratory | 1 |
| CHEM 24566 | Macromolecular Structure | 3 |

| | | |
|------------|-----------------------------|---|
| PHYS 25420 | Advanced Physics Laboratory | 1 |
| PHYS 25430 | Optics | 3 |

Free electives as needed to reach minimum 120 graduation hours

**Nanoscience Comprehensive Major-Physics Emphasis, 80 hours:
B.S.-No Minor Required**

CIP: 300101

This is an interdisciplinary major in conjunction with the Department of Natural Sciences and the Department of Mathematics and Statistics. Three emphasis areas are available: Nanoscience Biology, Nanoscience Chemistry, and Nanoscience Physics.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Core Courses (53 hours)

| | | |
|------------|---|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| BIOL 04310 | Cell Biology | 4 |
| BIOL 04350 | Genetics | 4 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| PHYS 25120 | Fundamentals of Classical Physics I✓ | 4 |
| PHYS 25121 | Fundamentals of Classical Physics I Laboratory✓ | 1 |
| PHYS 25230 | Fundamentals of Classical Physics II | 4 |
| PHYS 25231 | Fundamentals of Classical Physics II Laboratory | 1 |
| MATH 17114 | General Statistics✓ | 3 |
| NANO 48314 | Nanoscale Science I | 4 |
| NANO 48315 | Nanoscale Science II | 4 |
| MATH 17120 | Calculus I | 4 |
| PHIL 39276 | Biomedical Ethics✓ | 3 |

BIOL 04106 & BIOL 04107: This lecture/lab combination fulfills the Life Science requirement in the Northwest Core as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

PHYS 25120 & PHYS 25121: This lecture/lab combination fulfills the Physical Science requirement in the Northwest Core as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

MATH 17120: This course fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

PHIL 39276: This course fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Nanoscale Physics Emphasis Required Courses (21 hours)

| | | |
|------------|-----------------------------------|---|
| CSIS 44141 | Computer Programming I | 3 |
| MATH 17121 | Calculus II | 5 |
| PHYS 25350 | Introduction to Quantum Mechanics | 3 |
| PHYS 25352 | Modern Physics | 3 |
| PHYS 25420 | Advanced Physics Laboratory | 1 |
| PHYS 25430 | Optics | 3 |

| | | |
|------------|-----------------------|---|
| PHYS 25450 | Computational Physics | 3 |
|------------|-----------------------|---|

Nanoscale Physics Emphasis Elective Courses (6 hours)

Choose 6 hours from the following courses:

| | | |
|------------|--------------------------------|--------|
| MATH 17321 | Calculus III | 4 |
| MATH 17361 | Differential Equations | 3 |
| CHEM 24135 | Laboratory Safety | 2 |
| CHEM 24552 | Advanced Inorganic Chemistry | 3 |
| CHEM 24555 | Inorganic Synthesis Laboratory | 1 |
| PHYS 25479 | Undergraduate Research | 1 to 3 |
| PHYS 25330 | Electricity and Magnetism I | 3 |
| PHYS 25332 | Electronics | 3 |
| PHYS 25333 | Electronics Laboratory | 1 |
| PHYS 25360 | Quantum Mechanics | 3 |

Free electives as needed to reach minimum 120 graduation hours

Free electives are to be used to reach the minimum number of credit hours required for graduation.

Science Education / 28**Middle School Science Minor, 24-25 hours: B.S.Ed., Major in Middle School (Certifies Grades 5-9)**

CIP: 131316

Requirements**The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |

Required Courses (19 hours)

| | | |
|------------|---|---|
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| GEOL 27114 | General Earth Science✓ | 3 |
| GEOL 27115 | General Earth Science Laboratory✓ | 1 |
| PHSC 40102 | The Physical Sciences: Integrated Approach✓ | 3 |
| PHSC 40103 | Physical Science Laboratory: Integrating Inquiry✓ OR | 1 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ OR | 1 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |
| PHSC 40122 | Descriptive Astronomy✓ | 3 |
| PHSC 40123 | Descriptive Astronomy Laboratory✓ | 1 |
| SCED 28550 | History of Science and Technology | 3 |

Select from the following (4-5 hours):

| | | |
|------------|---|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory OR | 1 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| PHSC 40102 | The Physical Sciences: Integrated Approach✓ | 3 |
| PHSC 40103 | Physical Science Laboratory: Integrating Inquiry✓ | 1 |

| | | |
|------------|---------------------------------|---|
| | OR | |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| | OR | |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |
| GEOL 27212 | Historical Geology | 4 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |

Select one from the following which should be based on selection above (1 hour):

| | | |
|------------|----------------------------------|--------|
| BIOL 04383 | Biology Practicum | 1 |
| CHEM 24370 | Chemistry Practicum | 1 to 3 |
| GEOL 27305 | Practicum in Teaching Laboratory | 1 |
| PHSC 40389 | Practicum in Physical Science | 1 to 2 |

Professional Education Requirement

See Middle School Education Program Requirements (p. 308)

Students must take SCED 28582 Methods in Middle School Science as part of their professional education requirements.

Note: Selected Options cannot be used to fulfill any Northwest Core requirement.

This minor, when completed under the B.S.Ed. Middle School Education Program, will meet Missouri teacher certification standards for Science grades 5-9. Primary advisement for Middle School Certification is provided by the School of Education (p. 299). Please also seek a secondary advisor from the content area.

Honors Program / H

Associate Provost of the College of Arts and Sciences: Michael Steiner

Director of the Honors Program: Elyssa Ford

Statement of Mission

The Honors Program provides motivated and talented students with an enriched educational experience. Through limited class size and close interactions with faculty, the program provides talented students with a deeper understanding of content and an opportunity to develop critical thinking and discussion skills that prepare them for a dynamic world. In the Honors Program, a commitment to learning is combined with a spirit of inquiry and a critical understanding of the responsibilities of global citizenship. By bringing together the ideas from diverse traditions of knowledge, the Honors Program helps prepare creative and innovative leaders to meet emerging challenges in our global community.

The Honors Program Curriculum

Northwest Missouri State University's Northwest Core Requirements are outlined in this catalog (see The Northwest Core (p. 82)). The Honors Program requires Honors students to complete a combination of designated coursework and experiences. Students must complete 4 courses of Honors Northwest Core courses (sections designated with an H) or upper-division courses (300-level or above) as Honors Credit Agreements or any combination of the two types of courses that total a minimum of 12 credit hours. In addition, Honors students must complete 3 of the following Honors Experiences; at least one in each of the two categories listed below:

The Service/Leadership Category includes:

- Alternative spring break opportunities sponsored by a faculty member
- Lead Green sponsored by ELA
- Community service and/or service learning (20 hours) in one academic year
- Study abroad trip
- Other student ideas as approved by the Honors Advisory Committee

The Personal/Academic Growth Category includes:

- Presentation of original creative work (not here at Northwest)
 - Publication of original work
 - Participation in colloquia that include: a) Lecture Series, b) Creative and Performing Arts, c) Diversity, Equity, and Inclusion
 - Participation in a professional internship related to a possible career
 - Other student ideas as approved by the Honors Advisory Committee
- Please note: Honors students will need to contact the Director of the Honors Program to obtain specific requirements for completing the various Honors Experiences and receiving Honors credit.*

Honors Program Policies, Expectations and Requirements

The Honors Program is designed for motivated and capable students. During the first semester, the Honors student typically enrolls in at least one Honors class. These classes are sections of

existing courses enhanced for the Honors students. Class size limits for Honors sections provide ample opportunity for students to express themselves and interact more with professors and classmates:

Honors sections will typically involve:

- more extensive reading and/or more ambitious laboratory work
- in-depth conversation
- connections within and among disciplines
- relationship of course material to a diverse global society
- challenging educational experiences beyond the classroom
- opportunities for research and capstone experiences

Eligibility and Admission

- To be considered for entrance into the Honors program, a first-time/entering student must have a minimum ACT composite score of 26 and a minimum high school GPA of 3.50.
- Students will be selected from among eligible applicants.

Program Continuation Requirements

- Honors students must maintain a 3.50 Northwest cumulative grade point average to remain in the Honors Program. If a student falls below a 3.50 GPA after the first academic year, the student is placed on academic probation in the Honors Program. If after the following academic year, the student has not regained a 3.50 cumulative GPA, the student will be suspended from the Honors Program. The suspended student can apply for readmission to the program once their Northwest cumulative GPA is at or above 3.50.

Graduation Requirements

To graduate with honors, a student must:

- complete 4 courses of Honors Northwest Core courses (sections designated with an H) or upper-division courses (300-level or above) as Honors Credit Agreements or any combination of the two types of courses that total a minimum of 12 credit hours
- complete 3 Honors Experiences; at least one in each of the two following categories: Service/Leadership and Personal/Academic Growth
- maintain a 3.50 cumulative GPA

Co-Curricular Activities

- Special colloquia, field trips, etc. are available for enrichment and limited to Honors students.
- Honors students have the privilege of an early preregistration for classes.

Honors Program

- Honors students have opportunities for special access to selected campus-wide events.
- Honors students participate in various activities such as research projects and service learning activities.

- Honors students receive special advisement by the director of the Honors Program and/or by Honors faculty.
- A special dinner is held for Honors graduates and their families.
- Students receive an Honors medal for graduation (transcript and diploma will carry the Honors designation).

School of Agricultural Sciences/ 03

Director: Rod Barr

Assistant Director: Jacqueline Lacy

Faculty: Hua Bai, Matt Bax, Billy Brooks, Kelsey Bruno, Ronda Driskill, John Greathouse, Michael Miller, Mohammad Mobarok, Oscar Perez-Hernandez, Kevin Royal, Stuart Sprague, Alexander Taylor, Jacob Tuell

Statement of Mission

The mission of the School of Agricultural Sciences is to serve the students and the agricultural industry by:

- Providing high-quality degree programs utilizing an interdisciplinary approach
- Enhancing the critical thinking and problem solving skills of students
- Utilizing current and sustainable technologies to prepare students for the 21st century
- Integrating theory and application to provide high-quality services to the regional agricultural industry

Bachelor of Science Degrees

The courses in the School of Agricultural Sciences are chosen with the aim of preparing students to take their place in the many and varied occupations directly or indirectly related to agriculture. It is possible for students to select an area of emphasis in preparation for a particular career field, to prepare for advanced study, to prepare for farming or to enter the teaching field as a teacher of agricultural education.

Majors are currently offered in Agricultural Business, Agricultural Education, Agricultural Media-Advertising, Agricultural Media-Broadcasting, Agricultural Media-Journalism, Agricultural Science, Agronomy-Crop Production, Agronomy-Horticulture, Agronomy-Soil Science, Animal Science, Animal Science (Pre-Veterinary Option). Students at Northwest can select agricultural minors in Adapted Recreational Gardening, Agricultural Business, Agricultural Communications, Agricultural Data and Information Systems, Agricultural Dealer Management, Agricultural Finance, Agricultural Science, Agronomy, Animal Science, Horticulture, Precision Agriculture. Master's programs are offered leading to the following degrees: Master of Science in Education (Teaching Secondary Agricultural Education).

The School of Agricultural Sciences places special emphasis on creating a climate that is conducive to learning. The faculty possess a genuine concern for the students as well as a high commitment to the educational achievement of their students. The school's goal is to educate students to successfully meet the challenges of a career in agriculture, while instilling a desire and curiosity for lifelong learning.

The School of Agricultural Sciences offers an excellent course curriculum for each major, undergraduate research opportunities, internship programs, a wide range of professional and social student organizations and Profession-Based learning experiences to expand students' horizons beyond the classroom

Bachelor of Applied Science Degrees

For Bachelor of Applied Science degree students completing a one- or two-year program at a junior/community college and who transfer to Northwest for a B.A.S. degree, most credits will transfer, either as substitutes for equivalent courses or as electives. The Bachelor of Applied Science degree requires a minimum of 24 semester hours in agriculture courses numbered

above 300. A minimum of 30 semesters hours must be completed in residence; with the last 10 hours of academic work completed at Northwest. A minimum of 120 earned academic hours and a minimum overall and Northwest grade point average of 2.0 are required to qualify for the degree. (See Bachelor of Applied Science (p. 87) degree requirements.)

Non-Degree Program

The School of Agricultural Sciences offers a 2-year Farm Operations Program. On the successful completion of a program the student is awarded a certificate by the School of Agricultural Sciences. Unless otherwise noted, all courses in this program may be applied to a degree program should a student decide to complete a college degree.

Requirements within the School of Agricultural Sciences

All agriculture students are required to take chemistry as part of their degree requirements. Students selecting a major in the School of Agricultural Sciences must complete a minimum of 24 credit hours in Agriculture from Northwest Missouri State University.

Requirements for Independent Study and Problems Courses

The independent study and problems courses for each area of specialization permit the student to explore a specific topic in depth. The 400-level course may: (1) use either primary or secondary research data or (2) cover course material the student was unable to schedule prior to the senior year. The 500-level course may use only primary research data or special problems assigned by the instructor.

A student may take no more than three hours of 400-level and three hours of 500-level of these courses during the undergraduate program. The student may not take both a 400- and 500-level of these courses during the same semester.

A student may take no more than 9 hours of Independent Study, Problems, or Internship courses during the undergraduate program.

Majors and Minors for Agriculture Students

- Each major and minor shall consist of at least 12 hours of unique course work not applied to any other major or minor.
- Students majoring in agriculture are not permitted to minor in agricultural science or pursue a 2-year Farm Operations Certificate.
- Students pursuing a Bachelor of Applied Science- Agriculture are not permitted to pursue a minor.
- Students Seeking multiple majors in agriculture are not permitted to use agricultural science as one of the majors.
- Students pursuing a major in Agriculture Science may pursue a minor in Adapted Recreational Gardening, Agricultural Communication, Agricultural Data and Information Systems, Agricultural Dealership Management, Precision Agriculture, and Agricultural Finance
- GPA Requirement

Transfer Credit

For Bachelor of Science degree students, only those junior/community college agriculture courses that are covered by a current articulation agreement may be counted towards programs in the School of Agricultural Sciences. Up to six credits of employment experience, on-the-job training, or internships can be substituted for Northwest's AGRI 03498 Agriculture Occupations Internship.

Students selecting a major/emphasis in agriculture from Northwest Missouri State University must complete a minimum of 24 credit hours in agriculture from Northwest's School of Agricultural Sciences.

Agricultural Business Major, 65 hours: B.S.–Collateral Field Required

CIP: 010102

This program prepares the student to work in agriculturally-related industries. Students receive a solid background in business management principles as well as technical agriculture. It prepares the student for management positions in the areas of marketing, grain merchandising, insurance, and banking sectors.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (41 hours)

| | | |
|------------|--|---|
| AGRI 03102 | Principles of Microeconomics in Agriculture✓ | 3 |
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ OR | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| AGRI 03296 | Seminar | 1 |
| AGRI 03150 | Animal Science | 4 |
| AGRI 03302 | Agricultural Marketing | 3 |
| AGRI 03309 | Applied Futures Marketing | 3 |
| AGRI 03304 | Farm Management and Record Analysis | 3 |
| AGRI 03407 | Agricultural Finance | 3 |
| AGRI 03499 | Profession Based Integrated Experience | 1 |
| AGRI 03503 | Agricultural Law | 3 |
| | Advisor-approved electives | 9 |

AGRI 03102, CHEM 24112 and CHEM 24113 or CHEM 24114 and CHEM 24115: These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Collateral Field Courses (24 hours)

| | | |
|------------|----------------------------|---|
| ACCT 51201 | Accounting I | 3 |
| ACCT 51202 | Accounting II | 3 |
| FIN 53311 | Business Law I | 3 |
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17116 | Mathematical Modeling✓ | 3 |
| MGMT 54310 | Business Communication | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55430 | Sales and Sales Management | 3 |

MATH 17114 and MATH 17116 fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Free electives as needed to reach minimum 120 graduation hours

NOTE: Degree requires a grade point average of 2.25 in major courses.

Agricultural Education Comprehensive Major, 64-66 hours: B.S.Ed., Secondary Program—No Minor Required (Certifies Grades 9-12)

CIP: 131301

The Major in Agricultural Education is designed to prepare teachers of agriculture for the secondary and adult levels in compliance with state certification requirements.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (38 hours)

| | | |
|------------|--|---|
| AGRI 03102 | Principles of Microeconomics in Agriculture✓ | 3 |
| AGRI 03112 | Agricultural Mechanics | 4 |
| AGRI 03130 | Plant Science✓ | 4 |
| AGRI 03150 | Animal Science | 4 |
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| AGRI 03296 | Seminar | 1 |
| AGRI 03304 | Farm Management and Record Analysis | 3 |
| AGRI 03396 | Agricultural Advocacy | 3 |
| AGRI 03422 | Community Programming in Agriculture | 2 |
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| PSYC 08299 | Educational Psychology | 3 |
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ OR | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |

AGRI 03102, AGRI 03130, COM 29102, PSYC 08299, CHEM 24112 and CHEM 24113, CHEM 24114 and CHEM 24115: These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Must achieve a grade of C or better in COM 29102 and PSYC 08299.

Students must take two of the following with a minimum of one horticulture class (6 hours):

| | | |
|------------|-------------------------------------|---|
| AGRI 03232 | Crop Production | 3 |
| AGRI 03330 | Forage Crop Science | 3 |
| AGRI 03385 | Greenhouse Crop Production | 3 |
| AGRI 03388 | Fruit and Vegetable Crop Production | 3 |
| AGRI 03438 | Advanced Crop Production | 3 |
| AGRI 03540 | Grain Crops | 3 |
| AGRI 03389 | Turfgrass Management | 3 |
| | Horticulture elective | 3 |

Choose one of the following (2-3 hours):

| | | |
|------------|---------------------------------------|--------|
| AGRI 03238 | Techniques of Crop Scouting | 1 to 2 |
| AGRI 03381 | Applied Entomology | 3 |
| AGRI 03432 | Soil and Water Conservation | 3 |
| AGRI 03434 | Weed Science: Ecology and Control | 3 |
| AGRI 03440 | Introduction to Precision Agriculture | 3 |

Electives (8-9 hours)

Advisor-approved electives in agriculture 8 to 9

Required Courses in Agricultural Education (10 hours)

| | | |
|------------|---|---|
| AGRI 03320 | Foundations of Agricultural Education | 3 |
| AGRI 03420 | Program Planning in Agricultural Education | 3 |
| AGRI 03421 | Conducting Supervised Agriculture Experience Programs | 2 |

| | | |
|------------|--|---|
| AGRI 03524 | Methods of Instruction and Assessment in Agricultural Education Laboratories | 2 |
|------------|--|---|

Degree Requirement (3 hours)

| | | |
|------------|-------------------------------|---|
| EDUC 61569 | Multiculturalism in Education | 3 |
|------------|-------------------------------|---|

Professional Education Requirements (28 hours)

| | | |
|------------|--|---------|
| AGRI 03580 | Methods of Instruction and Assessment in Agricultural Education | 2 |
| EDCI 62111 | Ecology of Teaching | 1 |
| EDCI 62109 | Positive Communication in an Inclusive Classroom | 2 |
| EDCI 62119 | Professional Learning Community III | 1 |
| EDUC 61301 | Developmental Foundations of Adolescent and Content Literacy | 2 |
| EDUC 61302 | Professional Learning Community Middle and Secondary IV | 1 |
| EDUC 61311 | Designing Integrated Middle School and Secondary Curriculum | 1 |
| EDUC 61312 | Professional Learning Community for Middle School and Secondary V | 1 |
| EDUC 61324 | Intervention and Assessment: Literacy, Special Populations, and English Language | 2 |
| EDUC 61325 | Professional Learning Community VI | 1 |
| PSYC 08322 | Adolescent Psychology | 2 |
| EDUC 61432 | Professional Education Capstone | 2 |
| EDUC 61472 | Directed Teaching in the Secondary School | 1 to 10 |

Free Electives as needed to reach minimum 120 graduation hours

This major will meet Missouri teacher certification standards for Agricultural Education grades 9-12.

Agricultural Media, 63 hours: B.S.—No Minor Required

CIP: 010802

The program is an interdisciplinary program with collaboration between the School of Agricultural Sciences and the School of Communication and Mass Media. In addition, the program is designed to allow students to choose an emphasis area in broadcasting, journalism, or advertising with an internship in an agricultural media role as part of the degree requirement.

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****Core Courses in Agricultural Sciences (19 hours)**

| | | |
|------------|--|---|
| AGRI 03102 | Principles of Microeconomics in Agriculture✓ | 3 |
| AGRI 03150 | Animal Science | 4 |
| AGRI 03232 | Crop Production | 3 |
| AGRI 03301 | Professional Selling in Agriculture | 3 |
| AGRI 03396 | Agricultural Advocacy | 3 |
| AGRI 03508 | Agriculture Policy | 3 |

Advisor-approved upper division electives in Agricultural Sciences (6 hours)

Any 300-level or higher course in Agricultural Sciences for which the prerequisites are met

Core Courses in Mass Media (21 hours)

| | | |
|------------|---|---|
| MMED 20110 | Fundamentals of Electronic Media Production | 3 |
| MMED 20130 | Professional Media Writing | 3 |
| MMED 20243 | Media Design | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| MMED 20314 | Communication Law and Ethics | 3 |
| MMED 20320 | Theories of Mass Communication | 3 |

| | | |
|------------|-------------------------|---|
| MMED 20333 | Social Media Strategies | 3 |
|------------|-------------------------|---|

Media Practicum Requirement (1 hour)

Choose one from the following:

| | | |
|------------|----------------------------------|---|
| MMED 20150 | Journalism Practicum (Yearbook) | 1 |
| MMED 20151 | Journalism Practicum (Newspaper) | 1 |
| MMED 20215 | Practicum in Radio | 1 |
| MMED 20216 | Practicum in Television | 1 |

Internship Requirement (3 hours)

A minimum of 3 hours of advisor-approved internship is required.

| | | |
|------------|--|--------|
| AGRI 03498 | Agriculture Occupations Internship OR | 3 to 6 |
| MMED 20452 | Internship | 1 to 3 |

Seminar Requirement (1 hour)

Choose one from the following:

| | | |
|------------|----------------|---|
| AGRI 03296 | Seminar OR | 1 |
| MMED 20416 | Senior Seminar | 1 |

Select one of three emphasis areas (12 hours):**Production/Broadcasting Track (6 hours)**

| | | |
|------------|-----------------------|---|
| MMED 20224 | Introduction to Audio | 3 |
| MMED 20225 | Video Production | 3 |

Advisor-approved upper-division electives (6 hours)

Choose from the following:

| | | |
|------------|--------------------------------|---|
| MMED 20315 | Video Journalism | 3 |
| MMED 20329 | Audio Technology and Recording | 3 |
| MMED 20330 | Advanced Video Production | 3 |
| MMED 20334 | UX and Analytics | 3 |
| MMED 20417 | Television Directing | 3 |

Journalism Track (6 hours)

| | | |
|------------|-----------------|---|
| MMED 20352 | Copy Editing | 3 |
| MMED 20358 | Feature Writing | 3 |

Advisor-approved upper-division electives (6 hours)

Choose from the following:

| | | |
|------------|--------------------|---|
| MMED 20327 | Advanced Reporting | 3 |
| MMED 20357 | Opinion Writing | 3 |
| MMED 20425 | Knacktive | 3 |

Advertising Track (6 hours)

| | | |
|------------|-----------------------------|---|
| MMED 20230 | Introduction to Advertising | 3 |
| MMED 20304 | Advertising Case Studies | 3 |

Advisor-approved upper division electives (6 hours)

Choose from the following:

| | | |
|------------|-----------------------|---|
| MMED 20334 | UX and Analytics | 3 |
| MMED 20343 | Communication Design | 3 |
| MMED 20425 | Knacktive | 3 |
| MMED 20428 | Advertising Campaigns | 3 |

Free electives as needed to reach minimum 120 graduation hours

Agricultural Science Comprehensive Major, 58 hours: B.S.—No Minor Required

CIP: 010000

Agricultural science prepares students for a wide variety of positions in agriculture and agriculturally-related occupations, as well as farm operations.

In addition to the courses listed below, a program to total 58 hours of agriculture courses is designed by the student and an advisor to meet the needs of each student.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (58 hours)

| | | |
|------------|--|----|
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ | 1 |
| | OR | |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| AGRI 03102 | Principles of Microeconomics in Agriculture✓ | 3 |
| AGRI 03150 | Animal Science | 4 |
| AGRI 03232 | Crop Production | 3 |
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| AGRI 03296 | Seminar | 1 |
| | Advisor-approved electives in agriculture | 39 |

Students selecting a Comprehensive Major in Agricultural Science must complete a minimum of 9 credit hours in at least three of the agricultural areas: agricultural business, agricultural mechanization, agricultural education, agronomy, animal science, horticulture, and precision agriculture. Each course may be counted in only one major area.

AGRI 03102, CHEM 24112 and CHEM 24113, CHEM 24114 and CHEM 24115: These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Free electives as needed to reach minimum 120 graduation hours

NOTE: Degree requires a grade point average of 2.25 in major courses.

Agronomy Comprehensive Major, 64-65 hours: B.S.— No Minor Required

CIP: 011102

The agronomy curriculum provides fundamental training in crop and soil science. Students choosing to major in agronomy will be prepared to serve in crop consulting, environmental protection, land management, soil conservation, seed, fertilizer, agricultural chemical sales and technical support or related areas.

Areas of Emphasis: Crop Science, Horticulture, Soils

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Agronomy Core Courses (38 hours)

| | | |
|------------|-------------------------------|---|
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ | 1 |

| | | |
|------------|---|---|
| | OR | |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| AGRI 03130 | Plant Science✓ | 4 |
| AGRI 03232 | Crop Production | 3 |
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| AGRI 03292 | Introduction to Agricultural Pesticides | 3 |
| AGRI 03296 | Seminar | 1 |
| AGRI 03336 | Crop Physiology | 3 |
| AGRI 03381 | Applied Entomology | 3 |
| AGRI 03440 | Introduction to Precision Agriculture | 3 |
| AGRI 03499 | Profession Based Integrated Experience | 1 |
| AGRI 03534 | Plant Breeding | 3 |
| AGRI 03536 | Soil Fertility | 3 |
| AGRI 03582 | Plant Diseases | 3 |

AGRI 03130 and CHEM 24112 and CHEM 24113 or CHEM 24114 and CHEM 24115 fulfill Northwest Core requirements as well as requirements for the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Emphasis Option (11-12 hours)

Choose one of the following areas of emphasis.

Crop Science Emphasis

| | | |
|------------|-----------------------------------|--------|
| AGRI 03238 | Techniques of Crop Scouting | 1 to 2 |
| AGRI 03330 | Forage Crop Science | 3 |
| AGRI 03434 | Weed Science: Ecology and Control | 3 |
| AGRI 03540 | Grain Crops | 3 |

AGRI 03238 must be taken for 2 credit hours.

Horticulture Emphasis

| | | |
|------------|--|---|
| AGRI 03380 | Plant Propagation | 3 |
| AGRI 03385 | Greenhouse Crop Production | 3 |
| AGRI 03388 | Fruit and Vegetable Crop Production | 3 |
| AGRI 03331 | Integrated Crop Management | 3 |
| | OR | |
| AGRI 03484 | Research in Hydroponic Crop Production | 3 |

Soil Science Emphasis

| | | |
|------------|--------------------------------------|---|
| AGRI 03332 | Soil Microbiology | 3 |
| AGRI 03432 | Soil and Water Conservation | 3 |
| AGRI 03530 | Soil Formation and Classification | 3 |
| AGRI 03443 | Precision Agriculture for Production | 3 |
| | OR | |
| AGRI 03444 | Precision Agriculture Services | 3 |

Additional Approved Electives in Agronomy or Horticulture (15 hours)

Approved electives include additional courses 03-X3X, 03-X4X, and 03-X8X that are not also counted in the selected emphasis area.

Advisor-approved electives 15

Free electives as needed to reach minimum 120 graduation hours

NOTE: Degree requires a grade point average of 2.25 in major courses.

Animal Science Major, 46 hours: B.S.—Minor Required OR Collateral Field

CIP: 010901

Courses have been selected to prepare the student in the areas dealing with the fundamentals of livestock production, including selection, reproduction, physiology, nutrition, marketing, and general management. In addition to the courses dealing with basic principles, a number of elective courses are offered which give the student the opportunity to choose courses more closely related to his or her special interests.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (43 hours)

| | | |
|------------|--|---|
| AGRI 03102 | Principles of Microeconomics in Agriculture✓ | 3 |
| AGRI 03150 | Animal Science | 4 |
| AGRI 03252 | Livestock Evaluation | 3 |
| AGRI 03296 | Seminar | 1 |
| AGRI 03309 | Applied Futures Marketing | 3 |
| AGRI 03352 | Meat Science | 3 |
| AGRI 03358 | Livestock Health and Disease Management | 3 |
| AGRI 03360 | Principles of Animal Nutrition | 3 |
| AGRI 03362 | Anatomy and Physiology of Domestic Animals | 3 |
| AGRI 03366 | Principles of Animal Breeding | 3 |
| AGRI 03452 | Beef Science | 3 |
| | OR | |
| AGRI 03470 | Dairy Science | 3 |
| AGRI 03454 | Swine Science | 3 |
| AGRI 03499 | Profession Based Integrated Experience | 1 |
| AGRI 03566 | Genetics of Livestock Improvement | 3 |
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ | 1 |
| | OR | |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |

Take one of the following courses (3 hours):

| | | |
|------------|--------------------------------------|--------|
| AGRI 03330 | Forage Crop Science | 3 |
| AGRI 03363 | Domestic Animal Behavior and Welfare | 3 |
| AGRI 03365 | Artificial Insemination | 1 to 3 |
| AGRI 03450 | Small Ruminant Science | 3 |
| AGRI 03452 | Beef Science | 3 |
| AGRI 03460 | Advanced Animal Nutrition | 3 |
| AGRI 03470 | Dairy Science | 3 |

AGRI 03452, AGRI 03470 cannot be used to fulfill the "take 1" requirement if already applied elsewhere.

CHEM 24112 and CHEM 24113, CHEM 24114 and CHEM 24115: These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Collateral Field Courses (Choose 20 hours from the following):

| | | |
|------------|------------------------------------|---|
| CHEM 24242 | Organic Chemistry | 3 |
| CHEM 24243 | Organic Chemistry Laboratory | 1 |
| CHEM 24362 | Elementary Biochemistry | 3 |
| CHEM 24363 | Elementary Biochemistry Laboratory | 1 |
| ACCT 51201 | Accounting I | 3 |
| MGMT 54310 | Business Communication | 3 |
| MGMT 54313 | Principles of Management | 3 |
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |

| | | |
|---|--|---|
| BIOL 04350 | Genetics | 4 |
| MATH 17114 | General Statistics✓ | 3 |
| AGRI 03304 | Farm Management and Record Analysis | 3 |
| AGRI 03455 | Advanced Livestock Production and Management | 3 |
| MATH 17114: Cannot be used to fulfill any Northwest Core requirement. | | |

NOTE: Degree requires a grade point average of 2.25 in major courses.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Animal Science Comprehensive Major (Pre-Veterinary Option), 72-75 hours: B.S.–No Minor Required

CIP: 511104

This option is designed to prepare students for the pursuit of a degree in animal science and/or to meet the pre-professional requirements for a school of veterinary medicine.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (69-70 hours)

| | | |
|------------|---|---|
| AGRI 03150 | Animal Science | 4 |
| AGRI 03296 | Seminar | 1 |
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| AGRI 03352 | Meat Science | 3 |
| AGRI 03358 | Livestock Health and Disease Management | 3 |
| AGRI 03360 | Principles of Animal Nutrition | 3 |
| AGRI 03366 | Principles of Animal Breeding | 3 |
| AGRI 03452 | Beef Science | 3 |
| | OR | |
| AGRI 03470 | Dairy Science | 3 |
| AGRI 03454 | Swine Science | 3 |
| AGRI 03566 | Genetics of Livestock Improvement | 3 |
| | OR | |
| BIOL 04350 | Genetics | 4 |
| BIOL 04140 | General Microbiology | 4 |
| | OR | |
| BIOL 04310 | Cell Biology | 4 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| CHEM 24362 | Elementary Biochemistry | 3 |
| CHEM 24363 | Elementary Biochemistry Laboratory | 1 |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| MATH 17114 | General Statistics✓ | 3 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |

| | | |
|------------|--|---|
| | Advisor-approved biology elective | 3 |
| AGRI 03499 | Profession Based Integrated Experience | 1 |

PHYS 25110, PHYS 25111, and Biology elective cannot be used to fulfill any Northwest Core requirement.

BIOL 04106, BIOL 04107, MATH 17118, CHEM 24114, CHEM 24115: These courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Take one of the following courses (3-5 hours):

| | | |
|------------|--|---|
| AGRI 03362 | Anatomy and Physiology of Domestic Animals | 3 |
| | OR | |
| AGRI 03363 | Domestic Animal Behavior and Welfare | 3 |
| | OR | |
| BIOL 04435 | Comparative Anatomy | 5 |
| | OR | |
| BIOL 04438 | Human Physiology | 4 |

NOTE: Degree requires a grade point average of 2.25 in major courses.

Free electives as needed to reach minimum 120 graduation hours

Adapted and Recreational Gardening Minor, 24-25 hours

CIP: 010605

This is an interdisciplinary minor in conjunction with the School of Health Science and Wellness and the School of Agriculture.

Employers are seeking employees who are able to care for community gardens, courtyards, and sensory garden spaces. Many of these are located in Assisted Living, Long Term Care, Community Gardens, Residential Treatment Centers, etc. This interdisciplinary minor is designed to increase student skills and knowledge of inclusive recreational gardening through the provision of profession-based learning opportunities. This minor is most beneficial to students pursuing careers that include human service, gerontology, parks and recreation, disabilities, and horticulture.

Requirements

Required Courses (16 hours)

| | | |
|------------|--|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| | OR | |
| AGRI 03130 | Plant Science✓ | 4 |
| REC 45245 | Leisure Services and Special Populations | 3 |
| REC 45243 | Introductions to Therapeutic Recreation | 3 |
| AGRI 03385 | Greenhouse Crop Production | 3 |
| AGRI 03388 | Fruit and Vegetable Crop Production | 3 |

Options (8-9 hours)

Select 8-9 hours from the courses below:

| | | |
|------------|---|---|
| REC 45216 | Gerontology | 3 |
| REC 45365 | Leisure and Aging | 3 |
| REC 45461 | Therapeutic Recreation Interventions with the Elderly | 3 |
| HPER 22556 | Health in the Later Years | 3 |
| BIOL 04261 | Local Flora | 2 |
| AGRI 03382 | Woody Landscape Plants | 3 |

Advisor-approved electives in agronomy/horticulture 3

Agricultural Business Minor, 24 hours

CIP: 010102

Requirements

Required Courses (15 hours)

| | | |
|------------|--|---|
| AGRI 03102 | Principles of Microeconomics in Agriculture✓ OR | 3 |
| ECON 52151 | Principles of Microeconomics✓ | 3 |
| ACCT 51201 | Accounting I | 3 |
| AGRI 03302 | Agricultural Marketing | 3 |
| AGRI 03309 | Applied Futures Marketing | 3 |
| AGRI 03502 | Agricultural Prices | 3 |

AGRI 03102, ECON 52151: These courses fulfill a Northwest Core requirement as well as a requirement of the minor, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Select from the following courses (9 hours):

| | | |
|------------|-------------------------------------|---|
| ACCT 51202 | Accounting II | 3 |
| FIN 53324 | Fundamentals of Business Finance | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55430 | Sales and Sales Management | 3 |
| AGRI 03304 | Farm Management and Record Analysis | 3 |
| AGRI 03305 | Rural Real Estate Appraisal | 3 |
| AGRI 03407 | Agricultural Finance | 3 |
| AGRI 03503 | Agricultural Law | 3 |
| AGRI 03508 | Agriculture Policy | 3 |

Agricultural Communications Minor, 25 hours

CIP: 010802

Requirements

Required Courses (25 hours)

| | | |
|------------|--------------------------------|---|
| AGRI 03150 | Animal Science | 4 |
| AGRI 03232 | Crop Production | 3 |
| AGRI 03396 | Agricultural Advocacy | 3 |
| AGRI 03508 | Agriculture Policy | 3 |
| COM 29230 | Public Speaking | 3 |
| COM 29260 | Public Relations Techniques | 3 |
| MMED 20333 | Social Media Strategies | 3 |
| COM 29360 | Principles of Public Relations | 3 |

Agricultural Data and Information Systems Minor, 26-27 hours

CIP: 010106

This is an interdisciplinary minor in conjunction with the School of Agricultural Sciences and the School of Computer Science and Information Systems. The minor consists of courses designed to provide students with a broad exposure to agricultural sciences and computer science and information systems disciplines.

Requirements

Required Courses (21 hours)

| | | |
|------------|-------------------------------------|---|
| AGRI 03150 | Animal Science | 4 |
| AGRI 03232 | Crop Production | 3 |
| AGRI 03304 | Farm Management and Record Analysis | 3 |

| | | |
|------------|--|---|
| AGRI 03440 | Introduction to Precision Agriculture | 3 |
| CSIS 44144 | Web Development I | 3 |
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44336 | Spreadsheet Applications | 1 |
| CSIS 44346 | Database Applications | 1 |

Choose six hours from the following (6 hours):

| | | |
|------------|-------------------------------------|---|
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44181 | Introduction to Cybersecurity | 3 |
| CSIS 44330 | Presentation Graphics | 1 |
| CSIS 44337 | Advanced Spreadsheets and Charting | 1 |
| CSIS 44340 | Digital Media | 1 |
| CSIS 44343 | Digital Technologies | 3 |
| CSIS 44356 | Network Fundamentals | 3 |
| CSIS 44432 | Business Intelligence and Analytics | 3 |

AGRI 03304 has a prerequisite of AGRI 03102 or ECON 52151.

CSIS courses have a prerequisite of CSIS 44101 or CSIS 44130.

No course may count for Agronomy, Animal Science, or Horticulture major and this minor. Students must complete a minimum of 12 hours in Agricultural Sciences and 14 hours in Computers and Information Systems for this minor. Substitution of required courses must be in consultation with advisor.

A three-hour advisor-approved elective may be substituted for Animal Science (AGRI 03150) if Animal Science is required for the students major.

Agricultural Dealership Management Minor, 24 hours

CIP: 010102

Requirements**Required Courses (24 hours)**

| | | |
|------------|---------------------------------------|--------|
| AGRI 03232 | Crop Production | 3 |
| AGRI 03301 | Professional Selling in Agriculture | 3 |
| AGRI 03440 | Introduction to Precision Agriculture | 3 |
| AGRI 03498 | Agriculture Occupations Internship | 3 to 6 |
| MGMT 54314 | Human Resource Management | 3 |
| MGMT 54315 | Operations Management | 3 |
| MGMT 54316 | Organizational Behavior and Theory | 3 |
| COM 29240 | Principles of Leadership | 3 |

AGRI 03498 should be taken for a minimum of 3 credit hours and requires an advisor-approved placement in a management internship.

Agricultural Finance Minor, 21 hours

CIP: 010102

This is an interdisciplinary minor in conjunction with the Schools of Agricultural Sciences and Business.

Requirements**Required Courses (18 hours)**

| | | |
|------------|-----------------------------------|---|
| AGRI 03309 | Applied Futures Marketing | 3 |
| AGRI 03407 | Agricultural Finance | 3 |
| FIN 53325 | Investment Principles | 3 |
| FIN 53326 | Investment Management | 3 |
| FIN 53327 | Intermediate Financial Management | 3 |
| FIN 53420 | Financial Institutions | 3 |

Choose one from the following (3 hours):

| | | |
|------------|--|---|
| AGRI 03305 | Rural Real Estate Appraisal | 3 |
| AGRI 03502 | Agricultural Prices | 3 |
| AGRI 03504 | Futures Trading | 3 |
| FIN 53419 | Alternative Investments and Portfolio Management | 3 |

Substitution of required courses and selection of elective course must be made in consultation with an advisor.

Agricultural Science Minor, 23 hours**CIP: 020101**

Students pursuing a degree in the School of Agricultural Sciences may not pursue the Agricultural Science minor.

Requirements**Required Courses (23 hours)**

| | | |
|------------|--|---|
| AGRI 03102 | Principles of Microeconomics in Agriculture✓ | 3 |
| AGRI 03232 | Crop Production | 3 |
| AGRI 03150 | Animal Science | 4 |
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| | Advisor-approved electives in agriculture | 9 |

AGRI 03102: This course fulfills a Northwest Core requirement as well as a requirement of the minor, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Agronomy Minor, 24 hours**CIP: 020402****Requirements****Required Courses (24 hours)**

| | | |
|------------|---|---|
| AGRI 03130 | Plant Science✓ | 4 |
| AGRI 03232 | Crop Production | 3 |
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| AGRI 03330 | Forage Crop Science | 3 |
| | OR | |
| AGRI 03292 | Introduction to Agricultural Pesticides | 3 |
| | OR | |
| AGRI 03432 | Soil and Water Conservation | 3 |
| AGRI 03336 | Crop Physiology | 3 |
| | OR | |
| AGRI 03534 | Plant Breeding | 3 |
| AGRI 03530 | Soil Formation and Classification | 3 |
| | OR | |
| AGRI 03536 | Soil Fertility | 3 |
| | OR | |
| AGRI 03543 | Soil Chemistry: Environmental Quality and Plant Nutrition | 3 |
| AGRI 03381 | Applied Entomology | 3 |
| | OR | |
| AGRI 03434 | Weed Science: Ecology and Control | 3 |
| | OR | |
| AGRI 03582 | Plant Diseases | 3 |
| | Advisor-approved electives in agronomy | 1 |

AGRI 03130: This course fulfills a Northwest Core requirement as well as a requirement of the minor, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Animal Science Minor, 22 hours

CIP: 020201

Requirements

Required Courses (22 hours)

| | | |
|------------|-----------------------------------|---|
| AGRI 03150 | Animal Science | 4 |
| AGRI 03252 | Livestock Evaluation | 3 |
| AGRI 03352 | Meat Science | 3 |
| AGRI 03360 | Principles of Animal Nutrition | 3 |
| AGRI 03366 | Principles of Animal Breeding | 3 |
| AGRI 03452 | Beef Science | 3 |
| | OR | |
| AGRI 03454 | Swine Science | 3 |
| | OR | |
| AGRI 03470 | Dairy Science | 3 |
| AGRI 03566 | Genetics of Livestock Improvement | 3 |

Horticulture Minor, 24 hours

CIP: 020403

Requirements

Required Courses (24 hours)

| | | |
|------------|--|---|
| AGRI 03130 | Plant Science✓ | 4 |
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| AGRI 03380 | Plant Propagation | 3 |
| AGRI 03381 | Applied Entomology | 3 |
| AGRI 03582 | Plant Diseases | 3 |
| | Advisor-approved electives in horticulture | 7 |

AGRI 03130: This course fulfills a Northwest Core requirement as well as a requirement of the minor, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Precision Agriculture Minor, 24-25 hours

CIP: 019999

This minor consists of courses specifically designed to provide students with a broad exposure to the Agricultural and Geographic disciplines.

Several of the required and elective courses in this minor have a prerequisite of AGRI 03130 or BIOL 04112/BIOL 04113 and CHEM 24112/CHEM 24113 or CHEM 24114/CHEM 24115. In addition, several of the elective courses have a prerequisite of GEOL 27110 and GEOL 27111 or GEOL 27114 and GEOL 27115 and/or MATH 17118. Students electing to take this minor should choose their Northwest Core science courses to satisfy these prerequisites.

Requirements

Required Courses (22 hours)

| | | |
|------------|---|---|
| AGRI 03232 | Crop Production | 3 |
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| AGRI 03440 | Introduction to Precision Agriculture | 3 |
| AGRI 03445 | Applied Research in Precision Agriculture | 3 |
| GEOG 32201 | Maps and Spatial Reasoning | 3 |

| | | |
|------------|--------------------------------|---|
| GEOG 32207 | GPS Fundamentals | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |

Advisor Approved Electives (3-4 hours)

Choose 1 course:

| | | |
|------------|--|---|
| AGRI 03292 | Introduction to Agricultural Pesticides | 3 |
| AGRI 03381 | Applied Entomology | 3 |
| AGRI 03434 | Weed Science: Ecology and Control | 3 |
| AGRI 03443 | Precision Agriculture for Production | 3 |
| AGRI 03444 | Precision Agriculture Services | 3 |
| AGRI 03530 | Soil Formation and Classification | 3 |
| AGRI 03536 | Soil Fertility | 3 |
| AGRI 03582 | Plant Diseases | 3 |
| GEOG 32362 | Web Mapping | 3 |
| GEOG 32462 | Digital Cartography and Geovisualization | 3 |
| GEOG 32463 | Remote Sensing | 3 |
| GEOG 32465 | Introduction to Customized GIS | 3 |
| GEOG 32565 | Advanced Geographic Information Systems | 3 |
| GEOL 27340 | Introduction to Hydrogeology | 3 |
| GEOL 27360 | Environmental Geology | 4 |

A three-hour advisor-approved elective may be substituted for Fundamentals of Soil Science (AGRI 03234), if Fundamentals of Soil Science is required in the student's major.

NOTES: No courses may count for either a major in Geography or a major in Agricultural Science, Agronomy, Animal Science or Horticulture and this minor. Substitution of required courses should be made with courses listed under advisor approved electives.

Consultation with an advisor is required to properly select electives for this minor.

Agriculture Middle School Certification, 25 hours: Endorsement for (Certifies Grades 5-9 when completed with the Middle School Major)

CIP: 131301

Requirements**Required Course (25 hours)**

| | | |
|------------|--|---|
| AGRI 03102 | Principles of Microeconomics in Agriculture✓ | 3 |
| AGRI 03112 | Agricultural Mechanics | 4 |
| AGRI 03296 | Seminar | 1 |
| AGRI 03232 | Crop Production OR | 3 |
| AGRI 03385 | Greenhouse Crop Production | 3 |
| AGRI 03150 | Animal Science | 4 |
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| AGRI 03320 | Foundations of Agricultural Education | 3 |
| AGRI 03396 | Agricultural Advocacy | 3 |

Professional Education Requirements

See Middle School Education Program Requirements (p. 308)

Students must take AGRI 03580 Methods of Instruction and Assessment in Agricultural Education as part of their professional education requirements.

This endorsement, when completed under the B.S.Ed. Middle School Education Program, will meet Missouri teacher certification standards for Agriculture Education grades 5-9. Primary advisement for Middle School Certification is provided by the School of Education (p. 299). Please also seek a secondary advisor from the content area.

Farm Operation Two-Year Certificate Program, 60 hours

CIP: 019999

A two-year program designed to allow the student a highly concentrated course of study to prepare for farming or ranching.

Requirements

Required Courses (60 hours)

| | | |
|------------|--|----|
| AGRI 03102 | Principles of Microeconomics in Agriculture✓ | 3 |
| AGRI 03130 | Plant Science✓ | 4 |
| AGRI 03150 | Animal Science | 4 |
| AGRI 03234 | Fundamentals of Soil Science | 4 |
| | Advisor-approved electives in agriculture | 30 |
| | Advisor-approved electives | 15 |

Melvin D. and Valorie G. Booth School of Business

Director: Benjamin Blackford

Assistant Director: Chi Lo Lim

Faculty: Casey Abington, Shandy Beck, Lisa Bishop, Jamie Campbell, Shih-Hsien Chuang, Tolina Fufa, Araceli Hernández, Christopher Holden, Brenda Jones, Laura Kauzlarich, Dongwook Kim, Kyungjoong Kim, Stephen Ludwig, Jeff Nickerson, Renee Oyotode-Adebile, Doug Russell, Jason Satchell, Tiebing Shi, Malinda Tobin, Deborah Toomey, Shelby Trussell, James Walker, Tekle Wanorie

Mission Statement

The mission of The Melvin D. and Valorie G. Booth School of Business is to guide and educate our students to become critical thinkers and effective communicators prepared to thrive as ethical, socially responsible business and civic leaders in a diverse global environment. We are committed to creating and disseminating relevant theoretical and practical business knowledge that leads to student, faculty, and community success. Our faculty actively engage and encourage our students with experiential and applied learning that foster collaboration and respect for diversity.

Accreditation

The Melvin D. and Valorie G. Booth School of Business at Northwest Missouri State University is nationally accredited by the Accreditation Council for Business Schools and Programs (ACBSP) for the following degree programs: (1) at the graduate level, for the Master of Business Administration (M.B.A.) degree; (2) at the undergraduate level, for the Bachelor of Science (B.S.) degree with majors in Accounting, Business Economics, Business Management, Business Technology, Finance, International Business, Marketing, and Management Information Systems.

Degree Programs

The School of Business offers programs leading to the Bachelor of Science degree. All majors must complete at least 60 percent of the comprehensive major from Northwest. Students must earn a grade of C or better in all Common Professional Component (p. 252) (p. 252) and major courses. Students may select from the following majors offered by the School of Business: Accounting-Public Accounting Track or Managerial Accounting Track, Business Administration, Business Economics, Business Management, Economics, Finance-Corporate Finance, Financial Management, or Financial Services, Human Resource Management, International Business, and Marketing.

Each major is designed to prepare students for their professional career choice by providing them with the critical thinking capabilities and communication skills required for success in today's business world. The variety of majors permits the student a wide range of choices. These alternatives vary from the opportunities of entrepreneurship to the challenges of corporate positions. In addition, the focus of the major may be domestic or international in orientation.

In addition, the School of Business offers an interdisciplinary major in Data Science and Informatics. Interdisciplinary minors in Accounting Information Systems, Agricultural Finance, and Sport Management. Minors in Economics or General Business are available to students who major in another discipline, permitting students to gain exposure to the principles and fundamental concepts of business while pursuing a non-business major.

Business Transfer Requirements

Any community college student or student from another baccalaureate degree-granting institution planning to transfer to Northwest Missouri State University who has selected one of the business majors should place heavy emphasis on liberal arts courses during the first two years of study. However, students may wish to include some business courses in their programs and should select courses from the following:

- College Algebra (3 semester hours)
- Statistics (3 semester hours)
- Computers and Information Technology (3 semester hours)
- Principles of Accounting (3 semester hours)
- Managerial Communication (3 semester hours)
- Principles of Macroeconomics (3 semester hours)
- Principles of Microeconomics (3 semester hours)
- Business Law (3 semester hours)
- Fundamentals of Business Finance (3 semester hours)
- Principles of Management (3 semester hours)
- Principles of Marketing (3 semester hours)

Any business course taken at another regionally-accredited institution deemed equivalent to a Northwest business course will transfer, provided that at least 60 percent of the comprehensive major is completed at Northwest. Students minoring in general business must also complete 60 percent of those requirements at Northwest.

Special articulation agreements are available with community colleges for the transfer of associate of applied science degrees. Further information may be requested from the Office of Admissions.

Admission to the School of Business

To ensure that students have the necessary tools to succeed in their major and in major-specific courses, students must meet the following requirements in order to be admitted to the School of Business:

Minimum score of 25 on ACT

OR

1. Complete a minimum of 45 and a maximum of 80 hours
2. Maintain at least a cumulative 2.50 GPA
3. Complete the following courses with a grade of C or better in each course:

Required Courses

Must earn a grade of C or better in each of the following courses:

| | | |
|------------|-------------------------------|---|
| MATH 17114 | General Statistics✓ | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| ECON 52151 | Principles of Microeconomics✓ | 3 |
| ACCT 51201 | Accounting I | 3 |

| | | |
|------------|--------------------------------|---|
| MGMT 54313 | Principles of Management OR | 3 |
|------------|--------------------------------|---|

| | | |
|------------|-------------------------|---|
| MKTG 55330 | Principles of Marketing | 3 |
|------------|-------------------------|---|

Students who have met the admission requirements will submit an application to the School of Business and, upon notification of their admission, can pursue advanced courses in consultation with their academic advisor.

Common Professional Component Requirements for Accredited Business Programs

To ensure a common professional foundation among the accredited business programs, all students majoring in Accounting, Business Administration, Business Economics, Business Management, Business Technology, Finance, Human Resource Management, International Business, Management Information Systems, and Marketing are required to fulfill the following common professional component requirements. A minimum grade of C is mandatory for each of the Common Professional Component and required courses.

Note: Business Administration and Human Resource Management are not yet accredited.

Requirements

Non-business Courses (9 hours)

| | | |
|------------|--------------------------------------|---|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17116 | Mathematical Modeling✓ | 3 |
| CSIS 44130 | Computers and Information Technology | 3 |

MATH 17114 General Statistics or MATH 17116 Mathematical Modeling fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

CSIS 44130 Computers and Information Technology fulfills an Institutional requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

MATH 17116 Mathematical Modeling is recommended, but will also accept MATH 17117 Precalculus, MATH 17118 Precalculus Algebra, and MATH 17120 Calculus I to fulfill this requirement.

Business Courses (39 hours)

| | | |
|------------|----------------------------------|---|
| ACCT 51201 | Accounting I | 3 |
| ACCT 51202 | Accounting II | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| ECON 52151 | Principles of Microeconomics✓ | 3 |
| FIN 53311 | Business Law I | 3 |
| FIN 53324 | Fundamentals of Business Finance | 3 |
| MGMT 54310 | Business Communication | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MGMT 54315 | Operations Management | 3 |
| MGMT 54417 | Strategy and Decision Making | 3 |
| MKTG 55330 | Principles of Marketing | 3 |
| MKTG 55438 | International Business | 3 |
| CSIS 44317 | Management Information Systems | 3 |

ECON 52150 Principles of Macroeconomics fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Total Credit Hours: 48

Courses listed under the appropriate major must be completed in addition to the above Common Professional Component requirements.

Accounting / 51

Accounting Comprehensive Major, 78 hours: B.S.—No Minor Required

CIP: 520301

Students choosing a comprehensive major in Accounting must complete and earn a minimum grade of C for each of the courses in the Common Professional Component (p. 252) and in the required courses for the public accounting track or managerial accounting track.

The Public Accounting Track is designed to prepare students for careers in public accounting and/or to take the examination to become a Certified Public Accountant (CPA). Students wishing to take the CPA examination in Missouri, Nebraska, Iowa, and Kansas must have 150 credit hours. The student should complete the public accounting track and continue with an additional 30 hours of coursework to be eligible to sit for the CPA examination. Most students will choose to earn an MBA. (See Northwest Missouri State University Graduate Catalog and your advisor.)

The Managerial Accounting Track is designed to prepare students for careers in management accounting and to take the examination to become a Certified Management Accountant (CMA).

Both tracks have an online-only option.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Common Professional Component (48 hours)

Public Accounting Track (30 hours)

| | | |
|------------|--------------------------------|---|
| ACCT 51301 | Cost Accounting | 3 |
| ACCT 51303 | Individual Taxation | 3 |
| ACCT 51304 | Business Taxation | 3 |
| ACCT 51306 | Intermediate Accounting I | 3 |
| ACCT 51307 | Intermediate Accounting II | 3 |
| ACCT 51308 | Accounting Information Systems | 3 |
| ACCT 51401 | Intermediate Accounting III | 3 |
| ACCT 51403 | Advanced Accounting | 3 |
| ACCT 51404 | Auditing | 3 |
| FIN 53312 | Business Law II | 3 |

Managerial Accounting Track (30 hours)

| | | |
|------------|-----------------------------------|---|
| ACCT 51301 | Cost Accounting | 3 |
| ACCT 51304 | Business Taxation | 3 |
| ACCT 51306 | Intermediate Accounting I | 3 |
| ACCT 51307 | Intermediate Accounting II | 3 |
| ACCT 51308 | Accounting Information Systems | 3 |
| ACCT 51402 | Advanced Cost Accounting | 3 |
| ACCT 51403 | Advanced Accounting | 3 |
| ACCT 51404 | Auditing | 3 |
| FIN 53327 | Intermediate Financial Management | 3 |

Advisor-approved elective in ACCT, FIN, MGMT, or CSIS

3

Free electives as needed to reach minimum 120 graduation hours

This is an ACBSP accredited program.

Accounting Information Systems Minor, 24 hours

CIP: 301601

This is an interdisciplinary minor in conjunction with the School of Business and the School of Computer Science and Information Systems.

Requirements**Required Courses (24 hours)**

| | | |
|------------|------------------------------------|---|
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44336 | Spreadsheet Applications | 1 |
| CSIS 44337 | Advanced Spreadsheets and Charting | 1 |
| CSIS 44346 | Database Applications | 1 |
| CSIS 44460 | Database Systems | 3 |
| ACCT 51201 | Accounting I | 3 |
| ACCT 51202 | Accounting II | 3 |
| ACCT 51306 | Intermediate Accounting I | 3 |
| ACCT 51308 | Accounting Information Systems | 3 |

Economics / 52

Students may pursue a comprehensive major in Business Economics or a major in Economics with selection of a minor area. Additionally, students who major in another discipline may complete a minor in Economics. The major objective of the Economics program is to equip students with the principles and methods of sound economic theory and the application of economic theory so that they are prepared for employment in the private or public sectors and for graduate study.

The economics courses also perform several service functions: (a) they provide students within the Melvin D. and Valorie G. Booth School of Business with knowledge in economics and skills needed to pursue successful careers in private business or public service and (b) through Northwest Core courses, they offer all students at the University an opportunity for education in economics so that they become well-informed consumers and citizens who understand economic issues and policies.

Business Economics Comprehensive Major, 69 hours: B.S.—No Minor Required

CIP: 520601

Students choosing a comprehensive major in Business Economics must complete and earn a minimum grade of C for each of the courses in the Common Professional Component (p. 252) and the required courses in the major.

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****Common Professional Component (48 hours)****Required Courses (15 hours)**

| | | |
|------------|-------------------------|---|
| ECON 52351 | Macroeconomic Theory | 3 |
| ECON 52353 | Microeconomic Theory | 3 |
| ECON 52354 | Labor Economics | 3 |
| ECON 52450 | International Economics | 3 |

| | | |
|------------|--------------|---|
| ECON 52451 | Econometrics | 3 |
|------------|--------------|---|

Electives (6 hours)

| | |
|--|---|
| Choose six hours from advisor-approved economics or business electives | 6 |
|--|---|

Free electives as needed to reach minimum 120 graduation hours

This is an ACBSP accredited program.

Economics Major, 33 hours: B.S.—Minor Required

CIP: 450601

Students choosing a major in Economics must complete and earn a minimum grade of C in each of the required courses in the major.

Requirements**The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|------------|---------------------|---|
| MATH 17114 | General Statistics✓ | 3 |
|------------|---------------------|---|

This course fulfills a Northwest Core requirement and is not counted toward the major requirements.

Institutional Requirements (4 hours)**Required Courses (21 hours)**

| | | |
|------------|-------------------------------|---|
| MATH 17118 | Precalculus Algebra✓ | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| ECON 52151 | Principles of Microeconomics✓ | 3 |
| ECON 52351 | Macroeconomic Theory | 3 |
| ECON 52353 | Microeconomic Theory | 3 |
| ECON 52450 | International Economics | 3 |
| ECON 52451 | Econometrics | 3 |

Electives from the Directed Concentration areas below (12 hours)**Directed Concentration: Upper Division courses**

Economics courses (minimum of six hours)

Advisor-approved electives from the following areas:

Mathematics (Calculus or more advanced courses)

Finance

Marketing

Management

Political Science

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours**Economics Minor, 18 hours**

CIP: 450601

Students choosing a minor in Economics must complete and earn a minimum grade of C in each of the following courses:

Requirements**Required Courses (6 hours)**

| | | |
|-------------|--|---|
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| ECON 52151 | Principles of Microeconomics✓ | 3 |
| ECON 52150: | If ECON 52150 is applied to the minor requirement, it cannot be used to also fulfill The Northwest Core requirement. | |

Choose 12 hours of upper division Economics electives (12 hours)

| | |
|------------------------------------|----|
| Upper division Economics electives | 12 |
|------------------------------------|----|

Finance / 53

**Finance Comprehensive Major, 75 hours: B.S.—No Minor Required
CIP: 520801**

Finance directly affects the lives and well-being of every person and organization, whether financial or non-financial, public or private, profit or non-profit. These individuals and organizations earn or raise money and spend or invest money. The processes and decision-making methods to carry out these activities are the purview of finance, which has been defined as the art and science of managing money. The study of finance is concerned with the processes, institutions, markets, and instruments involved in the transfer of money between individuals, businesses, and governments. The major areas of finance can be divided into four broad categories: financial services, corporate finance, insurance, and real estate. The goal of the finance faculty is to prepare graduates for all of the categories in the world of finance.

The Corporate Finance Option provides students with the tools to work within the corporate structure under the chief financial officer, where accounting and financial information are used to make corporate decisions. Students will communicate with both the financial and accounting personnel and identify accounting information and financial models for decision making.

The Financial Management Option permits students to prepare for a position in management rather than a staff position in finance under the corporate treasurer. This option blends the knowledge of finance and management to better prepare the student in making management decisions that require an understanding of finance. Almost all decisions in business require a balance of interests from all functional business areas, using the decision-making process and the tools of finance to guide the corporation to achieve its goal.

The Financial Services Option prepares students for the financial services industry. This comprises the professions of brokerage, insurance, real estate, and banking. In this business sector students will need to understand the products customers purchase and how to relate this information to the customer.

Students choosing a comprehensive major in Finance must complete and earn a minimum grade of C for each of the courses in the Common Professional Component (p. 252) and the required courses in the major.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Common Professional Component (48 hours)

Option One: Corporate Finance, 27 hours

Required Courses

| | | |
|------------|--|---|
| FIN 53325 | Investment Principles | 3 |
| FIN 53326 | Investment Management | 3 |
| FIN 53327 | Intermediate Financial Management | 3 |
| FIN 53419 | Alternative Investments and Portfolio Management | 3 |
| FIN 53421 | Selected Cases in Finance | 3 |
| ACCT 51301 | Cost Accounting | 3 |

| | | |
|------------|---|---|
| ACCT 51306 | Intermediate Accounting I | 3 |
| ACCT 51402 | Advanced Cost Accounting | 3 |
| | Approved electives in Finance or Accounting | 3 |

Option Two: Financial Management, 27 hours

This program has an online-only option.

Required Courses

| | | |
|------------|---|---|
| FIN 53325 | Investment Principles | 3 |
| FIN 53326 | Investment Management | 3 |
| FIN 53327 | Intermediate Financial Management | 3 |
| FIN 53420 | Financial Institutions | 3 |
| FIN 53421 | Selected Cases in Finance | 3 |
| MGMT 54314 | Human Resource Management | 3 |
| MGMT 54316 | Organizational Behavior and Theory | 3 |
| MGMT 54318 | Entrepreneurship OR | 3 |
| MGMT 54320 | Negotiations | 3 |
| | Approved electives in Finance or Management | 3 |

Option Three: Financial Services, 27 hours

Required Courses

| | | |
|------------|--|---|
| FIN 53320 | Insurance and Risk | 3 |
| FIN 53325 | Investment Principles | 3 |
| FIN 53326 | Investment Management | 3 |
| FIN 53327 | Intermediate Financial Management | 3 |
| FIN 53419 | Alternative Investments and Portfolio Management | 3 |
| FIN 53420 | Financial Institutions | 3 |
| FIN 53421 | Selected Cases in Finance | 3 |
| MKTG 55430 | Sales and Sales Management | 3 |

Choose 3 hours from electives

| | | |
|------------|---------------------|---|
| ACCT 51303 | Individual Taxation | 3 |
| ACCT 51304 | Business Taxation | 3 |

Free electives as needed to reach minimum 120 graduation hours

This program is an ACBSP accredited program.

Agricultural Finance Minor, 21 hours

CIP: 010102

This is an interdisciplinary minor in conjunction with the School of Business and the School of Agricultural Sciences.

Requirements

Required Courses (18 hours)

| | | |
|------------|-----------------------------------|---|
| AGRI 03309 | Applied Futures Marketing | 3 |
| AGRI 03407 | Agricultural Finance | 3 |
| FIN 53325 | Investment Principles | 3 |
| FIN 53326 | Investment Management | 3 |
| FIN 53327 | Intermediate Financial Management | 3 |
| FIN 53420 | Financial Institutions | 3 |

Choose one from the following (3 hours):

| | | |
|------------|-----------------------------|---|
| AGRI 03305 | Rural Real Estate Appraisal | 3 |
| AGRI 03502 | Agricultural Prices | 3 |
| AGRI 03504 | Futures Trading | 3 |

FIN 53419 Alternative Investments and Portfolio Management 3
 Substitution of required courses and selection of elective course must be made in consultation with an advisor.

Management / 54

Business Administration Comprehensive Major, 75 hours: B.S.—No Minor Required

CIP: 520201

The Bachelor of Science in Business Administration is designed to prepare students with a solid foundational knowledge in business with specialization in three business areas that align with their future career goals. Students must choose three areas of specialization to further develop their skills in accounting, economics, finance, marketing, and/or management. Students graduating from the program will develop the ability to effectively apply and communicate ethical and critical decision-making skills in a professional setting. A degree in Business Administration prepares students with a robust business acumen across a range of disciplines to be successful in the global arena.

Students choosing a comprehensive major in Business Administration must complete and earn a minimum grade of C for each of the courses in the Common Professional Component (p. 252) and the required courses in the major.

This program has an online-only option.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Common Professional Component (48 hours)

Business Administration Major (27 hours)

Students must complete nine hours per specialization, with two classes at the 300 level and at least one class at the 400 level or above, in three of the following:

1. Accounting 51300-51499
2. Economics 52300-52499
3. Finance 53300-53499
4. Human Resource Management 54321-54325 and 54520
5. Management 54300-54499
6. Marketing 55300-55499

Business Management Comprehensive Major, 72 hours: B.S.—No Minor Required

CIP: 520201

Students choosing a comprehensive major in Business Management must complete and earn a minimum grade of C for each of the courses in the Common Professional Component (p. 252) and the required courses in the major.

This program has an online-only option.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Common Professional Component (48 hours)

Required Courses (15 hours)

| | | |
|------------|------------------------------------|---|
| MGMT 54314 | Human Resource Management | 3 |
| MGMT 54316 | Organizational Behavior and Theory | 3 |
| MGMT 54318 | Entrepreneurship | 3 |
| MGMT 54320 | Negotiations | 3 |
| MGMT 54413 | Business and Society | 3 |

Students must take two of the following for a total of 6 hours (6 hours):

| | | |
|------------|----------------------------|--------|
| ECON 52354 | Labor Economics | 3 |
| MGMT 54415 | Intern in Management OR | 1 to 3 |
| MKTG 55435 | Intern in Marketing | 1 to 3 |
| MGMT 54436 | Multinational Management | 3 |
| MKTG 55437 | International Marketing | 3 |
| MKTG 55440 | Business Study Abroad | 1 to 6 |

Recommended Electives (3 hours)

| | |
|--|---|
| 300 or 400-level advisor-approved elective | 3 |
|--|---|

Free electives as needed to reach minimum 120 graduation hours

This program is an ACBSP accredited program.

Human Resource Management Comprehensive Major, 75 hours: B.S.—No Minor Required

CIP: 521001

Students choosing a comprehensive major in Human Resource Management must complete the Common Professional Component courses and major requirements with a minimum grade of C in each.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Common Professional Component (48 hours)

HR Subject area requirements (27 hours)

| | | |
|------------|--|--------|
| MGMT 54314 | Human Resource Management | 3 |
| MGMT 54316 | Organizational Behavior and Theory | 3 |
| MGMT 54321 | Staffing | 3 |
| MGMT 54322 | Employee Rewards and Benefits | 3 |
| MGMT 54323 | International Human Resource Management | 3 |
| MGMT 54324 | Organizational Training and Development | 3 |
| MGMT 54325 | Employee and Labor Relations | 3 |
| MGMT 54421 | Internship in Human Resource Management | 1 to 3 |
| MGMT 54520 | Advanced Human Resource Management Seminar | 3 |

Free electives as needed to reach 120 minimum graduation hours

Data Sciences and Informatics Comprehensive Major-Business Emphasis, 79 hours: B.S.—No Minor Required

CIP: 110802

Requirements

Students choosing a comprehensive major in Data Sciences and Informatics major with a business emphasis must complete and earn a minimum grade of C in each of the following courses.

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Core Requirements for a Major in Data Sciences and Informatics

Required Courses (52 hours)

| | | |
|------------|--|---|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17120 | Calculus I | 4 |
| MATH 17311 | Linear Algebra | 3 |
| MATH 17316 | Linear Statistical Models I | 3 |
| MATH 17318 | Linear Statistical Models II | 3 |
| MATH 17356 | Data Mining with Applications to Business and Sciences | 3 |
| CSIS 44101 | Foundations of Computing OR | 3 |
| CSIS 44130 | Computers and Information Technology | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44317 | Management Information Systems | 3 |
| CSIS 44413 | Visualization | 3 |
| CSIS 44460 | Database Systems | 3 |
| PHIL 39275 | Professional Ethics✓ | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Note: If ANY courses in the Core Requirements for this major are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

CSIS 44141 has a prerequisite of a grade of C or better in CSIS 44101 or CSIS 44130, both of which are options for the Institutional Requirement for Digital Literacy.

PHIL 39275 fulfills a Northwest Core Humanities Requirement.

ECON 52150 fulfills a Northwest Core Social Science Requirement.

Business

Required Courses (27 hours)

| | | |
|------------|----------------------------------|---|
| ACCT 51201 | Accounting I | 3 |
| ACCT 51202 | Accounting II | 3 |
| FIN 53311 | Business Law I | 3 |
| FIN 53324 | Fundamentals of Business Finance | 3 |
| ECON 52151 | Principles of Microeconomics✓ | 3 |
| ECON 52458 | Forecasting Business Conditions | 3 |
| MGMT 54315 | Operations Management | 3 |
| MGMT 54417 | Strategy and Decision Making | 3 |
| MKTG 55438 | International Business | 3 |

Note: Data Sciences and Informatics with Business emphasis is not yet accredited.

Free electives as needed to reach minimum 120 graduation hours

General Business Minor, 24 hours

CIP: 520101

Students choosing the minor in General Business must complete the following courses and earn a minimum grade of C in each of the following courses:

Note that in addition to the courses listed below, MATH 17116 or MATH 17117 or MATH 17118 or MATH 17119 or MATH 17120 is also required as a prerequisite for FIN 53324 Fundamentals of Business Finance.

Requirements

Required Courses (24 hours)

| | | |
|------------|----------------------------------|---|
| ACCT 51201 | Accounting I | 3 |
| ACCT 51202 | Accounting II | 3 |
| ECON 52151 | Principles of Microeconomics✓ | 3 |
| FIN 53311 | Business Law I | 3 |
| FIN 53324 | Fundamentals of Business Finance | 3 |
| MGMT 54310 | Business Communication | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Students with a comprehensive major in any business discipline requiring the Common Professional Component are not permitted to minor in general business. This minor is intended for non-business majors.

Sport Management Interdisciplinary Minor, 24 hours

CIP: 310504

This is an interdisciplinary minor in conjunction with the School of Business and the School of Health Science and Wellness.

Requirements

Required Courses (18 hours)

| | | |
|------------|--|---|
| MGMT 54310 | Business Communication | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MGMT 54345 | Sport Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |
| HPER 22515 | Issues in Sport | 3 |
| REC 45450 | Field Experience in Recreation and Park Management OR | 3 |
| REC 45455 | Field Experience in Sport Management | 3 |

Choose two from the following (6 hours):

| | | |
|------------|--|---|
| REC 45440 | Recreation Operations Management | 3 |
| REC 45525 | Commercial Recreation | 3 |
| REC 45533 | Recreation Sports Management | 3 |
| HPER 22512 | Socio-Psychological Aspects of Human Performance | 3 |

Note: One advisor-approved course (300-level or above) can be substituted for one of the above courses.

Marketing / 55

International Business Comprehensive Major, 72 hours: B.S.—No Minor Required

CIP: 521101

The International Business degree provides students both the general business bases and the specialized knowledge to prepare them for a career in today's international business environment. This degree prepares students to succeed in business while working in the global economy. Students will be engaged in learning about international politics, managing international teams, economics, and marketing.

Students choosing a comprehensive major in International Business must complete the Common Professional Component (p. 252) courses and earn a minimum grade of C in each of the following major requirements:

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Common Professional Component (48 hours)

Required Courses (12 hours)

| | | |
|------------|--------------------------|---|
| ECON 52450 | International Economics | 3 |
| MKTG 55431 | Logistics Management | 3 |
| | OR | |
| MKTG 55434 | Marketing Management | 3 |
| MKTG 55437 | International Marketing | 3 |
| MGMT 54436 | Multinational Management | 3 |

International Experience (6 hours)

Six hours of business credit which may include courses of study and/or internship in a foreign country.

Exemptions from the foreign study requirement are available **only** with the permission of the School Director.

International students may choose to fulfill this requirement through internships or other business courses at Northwest.

Cultural Understanding (6 hours)

Students must complete six hours according to Option A or B based upon advisor direction. Option B is required unless fluent in a foreign language.

Option A – Global Political Economy

| | | |
|------------|-------------------------|---|
| GEOG 32221 | Economic Globalization | 3 |
| POLS 34307 | International Relations | 3 |

Option B – Foreign Language

Six hours above the introductory level in any modern language

Free electives as needed to reach minimum 120 graduation hours

This program is an ACBSP accredited program.

Marketing Comprehensive Major, 72 hours: B.S.—No Minor Required CIP 521401

Students choosing a comprehensive major in Marketing must complete the Common Professional Component (p. 252) courses and earn a minimum grade of C in each of the following courses.

This program has an online-only option.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Common Professional Component (48 hours)

Required Courses (15 hours)

| | | |
|------------|----------------------------|---|
| MKTG 55332 | Promotion | 3 |
| MKTG 55333 | Consumer Behavior | 3 |
| MKTG 55430 | Sales and Sales Management | 3 |
| MKTG 55432 | Marketing Research | 3 |
| MKTG 55434 | Marketing Management | 3 |

Student must take two of the following for a total of 6 hours (6 hours):

| | | |
|------------|----------------------------|--------|
| MGMT 54415 | Intern in Management OR | 1 to 3 |
| MKTG 55435 | Intern in Marketing | 1 to 3 |
| MKTG 55331 | Retailing | 3 |
| MKTG 55431 | Logistics Management | 3 |
| MKTG 55437 | International Marketing | 3 |
| MKTG 55440 | Business Study Abroad | 1 to 6 |

Recommended Electives (3 hours)

| | |
|--|---|
| 300 or 400-level advisor-approved elective | 3 |
|--|---|

Free electives as needed to reach minimum 120 graduation hours

This program is an ACBSP accredited program.

School of Communication and Mass Media

Director: Matt Walker

Assistant Director: Bayo Joachim

Faculty: Robert Bergland, Adam Bochart, Steven Chappell, Joy Daggs, John Katsion, Alex Kirt, Kyle Miller, Jason Offutt, Brenda Rourke, David Shadinger, Brian Swafford, Kylie Wilson, Fan Yang

Staff: Marla McCrary, Will Murphy

Statement of Mission

Northwest Missouri State University is a learning-centered community of scholars offering undergraduate and selected graduate programs. The University is committed to preparing broadly educated and engaged citizens for a world of constant change, applying information technology to improve learning processes, and promoting continuous improvement to enhance performance in all its activities. Northwest seeks to expand access to learning and promote research designed to address the needs of our students and stakeholders.

Communication / 29

The Bachelor of Arts in Communication and the Bachelor of Science in Communication each have options for concentrated study in one of four areas: Public Relations (comprehensive, no minor required), Organizational Communication (comprehensive, no minor required), Interpersonal Communication (minor required), and Rhetoric (minor required).

The Public Relations options combine communication courses with appropriate coursework in management, marketing, and mass media to provide a broad preparation for various careers within the public relations field. No minor is required for these programs.

The Organizational Communication options augment the studies of communication theory and performance with courses in management, psychology, and writing designed to prepare students for the myriad of careers within organizational communication.

The Interpersonal Communication options seek to understand how communication creates and shapes relationships to prepare for careers in human resources, training and development, social work, counseling, and clinical psychology or continuation in graduate study.

The Rhetoric options develop effective critical thinking skills and understanding of ethical issues to understand persuasive communication in order to prepare for careers in law, social service, or political fields, or continuation in graduate study.

The comprehensive Bachelor of Science in Education in Speech/Theatre (55 hours) prepares students to teach and direct speech and theatre in secondary schools. This major does not require a minor and, when completed under the B.S.Ed., Secondary Education Program, meets the State of Missouri teacher certification standards for grades 9-12.

The non-comprehensive Bachelor of Science in Education in Speech/Theatre (38 hours) requires a minor. This major, when completed under the B.S.Ed., Secondary Education Program, also meets the State of Missouri teacher certification standards for grades 9-12.

The minor in Communication is comprised of 24 hours. Minors are required to take the 15-hour communication core and an additional 9 hours in an area of emphasis (Public Relations, Organizational Communication, Interpersonal Communication or Rhetoric).

A minor in Speech/Theatre Education (32 hours) is available to students majoring in another area. This minor, when completed under the B.S.Ed., Secondary Education Program, meets the State of Missouri teacher certification standards for grades 9-12.

The school also offers an endorsement in Speech/Theatre for students seeking Missouri Middle School (grades 5-9) certification. The middle school program is advised through the College of Education and Human Services.

Test-Out Policy

Test-out is available for COM 29102, Fundamentals of Oral Communication. For further information, contact the director of the COM 29102 program.

Please refer to the “Departmental Test-Out” information (p. 61) contained in the “Academic Policies” section of the catalog for policy information. Students should contact the school for additional details.

Speech/Theatre Education Directing Requirement

All candidates for the B.S.Ed. degree with a secondary speech/theatre major must demonstrate their ability to direct a complete theatrical presentation that is approved by department faculty. Opportunities for meeting this requirement will be discussed with the academic advisor and include lab series, second stage, and external venue shows. THEA 43373 Directing must be successfully completed prior to attempting this requirement.

Advanced Standing Requirement

Students majoring in the communication programs must complete University Seminar (1 hour), English Composition (6 hours), Oral Communication (3 hours), and Mathematics (3-4 hours) by the end of the sophomore year. A student must achieve a cumulative grade point average of 2.00 for all courses listed above. No major in the school may be enrolled in and pursue advanced school courses (numbered 300 or above) until these courses and the specific advanced standing requirements for the student’s major are met.

Students seeking exemption, or who are not granted advanced standing in communication may appeal by submitting a written petition to the Director of the School of Communication and Mass Media.

Communication Majors

Students seeking a major or a minor in communication are expected to demonstrate a capacity to integrate principles of spoken and written communication and sufficient commitment to expand their knowledge in order to successfully pursue advanced study.

To achieve communication advanced standing, a student must have completed at least six hours of 200-level courses or equivalent in communication.

Communication Core Requirements, 15 hours

Core Requirements for Majors and Minors in Communication

Courses (15 hours)

| | | |
|-----------|------------------------------|---|
| COM 29210 | Communication Theory | 3 |
| COM 29230 | Public Speaking | 3 |
| COM 29232 | Small Group Communication✓ | 3 |
| COM 29332 | Propaganda and Persuasion | 3 |
| COM 29335 | Interpersonal Communication✓ | 3 |

Communication Major, 33-54 hours: B.A.

CIP: 090101

Public Relations Option, 54 hours—No Minor Required**The Northwest Core (44-47 hours)**

Recommended:

COM 29225 Intercultural Communication 3

Institutional Requirements (4 hours)**B.A. Modern Language Requirement (9 hours)**

Modern Language 9

All 9 hours must be in the same language.

Required Courses (33 hours)

| | | |
|-----------|---|--------|
| | Communication Core | 15 |
| COM 29260 | Public Relations Techniques | 3 |
| COM 29310 | Communication Research Methods | 3 |
| COM 29360 | Principles of Public Relations | 3 |
| COM 29460 | Public Relations Problems: Cases, Concepts, and Campaigns | 3 |
| COM 29469 | Internship in Public Relations | 1 to 3 |
| COM 29498 | Senior Capstone | 3 |

Cognate Courses (12 hours)

| | | |
|------------|------------------------------------|---|
| MMED 20130 | Professional Media Writing | 3 |
| MMED 20333 | Social Media Strategies | 3 |
| ENGL 10315 | Professional and Technical Writing | 3 |
| | OR | |
| ENGL 10430 | Digital Literacy | 3 |
| | OR | |
| ENGL 10512 | Publication Skills | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Six hours from the following according to student's area of emphasis (6 hours):

| | | |
|-----------|---------------------------------|---|
| COM 29420 | Crisis Communication | 3 |
| COM 29402 | Current Topics in Communication | 3 |

Three hours from the following to support the student's area of emphasis (3 hours):

| | | |
|------------|--------------------------------------|---|
| MMED 20230 | Introduction to Advertising | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| MMED 20304 | Advertising Case Studies | 3 |
| COM 29336 | Nonverbal Communication | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| COM 29425 | Knacktive | 3 |
| COM 29432 | Organizational Communication | 3 |
| ACCT 51201 | Accounting I | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55332 | Promotion | 3 |
| MKTG 55333 | Consumer Behavior | 3 |
| MKTG 55432 | Marketing Research | 3 |
| | Other courses as approved by advisor | |

Free electives as needed to reach minimum 120 graduation hours**Organizational Communication Option, 54 hours—No Minor Required****The Northwest Core (44-47 hours)**

Institutional Requirements (4 hours)**B.A. Modern Language Requirement (9 hours)**

| | |
|-----------------|---|
| Modern Language | 9 |
|-----------------|---|

All 9 hours must be in the same language.

Required Courses (36 hours)

| | | |
|-----------|--|--------|
| | Communication Core | 15 |
| COM 29225 | Intercultural Communication | 3 |
| COM 29240 | Principles of Leadership | 3 |
| COM 29310 | Communication Research Methods | 3 |
| COM 29325 | Listening Behavior and Skills | 3 |
| COM 29432 | Organizational Communication | 3 |
| COM 29467 | Internship in Organizational Communication | 1 to 3 |
| COM 29498 | Senior Capstone | 3 |

Three hours to be chosen from the following (3 hours):

| | | |
|-----------|--------------------------|--------|
| COM 29336 | Nonverbal Communication | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| COM 29401 | Special Topics | 1 to 3 |
| COM 29420 | Crisis Communication | 3 |

Cognate Courses (12 hours)

| | | |
|------------|------------------------------------|---|
| PSYC 08313 | Psychology at Work | 3 |
| ENGL 10315 | Professional and Technical Writing | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MGMT 54314 | Human Resource Management | 3 |

Three hours from the following (3 hours):

| | | |
|------------|---------------------------|---|
| PSYC 08363 | Psychology of Personality | 3 |
| SOC 35365 | Social Psychology | 3 |
| MGMT 54310 | Business Communication | 3 |

Free electives needed to reach minimum 120 graduation hours**Interpersonal Communication Option, 33 hours—Minor Required****The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****B.A. Modern Language Requirement (9 hours)**

| | |
|-----------------|---|
| Modern Language | 9 |
|-----------------|---|

All 9 hours must be in the same language.

Required Courses (33 hours)

| | | |
|-----------|--------------------------------|----|
| | Communication Core | 15 |
| COM 29225 | Intercultural Communication | 3 |
| COM 29310 | Communication Research Methods | 3 |
| COM 29325 | Listening Behavior and Skills | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| COM 29498 | Senior Capstone | 3 |
| | Approved electives | 3 |

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours**Rhetoric Option, 33 hours—Minor Required****The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****B.A. Modern Language Requirement (9 hours)**

| | |
|-----------------|---|
| Modern Language | 9 |
|-----------------|---|

All 9 hours must be in the same language.

Required Courses (33 hours)

| | | |
|-----------|--------------------------------|----|
| | Communication Core | 15 |
| COM 29225 | Intercultural Communication | 3 |
| COM 29310 | Communication Research Methods | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| COM 29343 | Rhetoric of American Issues | 3 |
| COM 29498 | Senior Capstone | 3 |
| | Approved electives | 3 |

Note: COM 29235 Introduction to Classical Rhetoric is a prerequisite for COM 29343 and will satisfy a Northwest Core requirement.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours**Communication Major, 36-60 hours: B.S.**

CIP: 090101

Public Relations Option, 60 hours—No Minor Required

This program has an online-only option.

The Northwest Core (44-47 hours)

Recommended:

| | | |
|-----------|-----------------------------|---|
| COM 29225 | Intercultural Communication | 3 |
|-----------|-----------------------------|---|

Institutional Requirements (4 hours)**Required Courses (33 hours)**

| | | |
|-----------|---|--------|
| | Communication Core | 15 |
| COM 29260 | Public Relations Techniques | 3 |
| COM 29310 | Communication Research Methods | 3 |
| COM 29360 | Principles of Public Relations | 3 |
| COM 29460 | Public Relations Problems: Cases, Concepts, and Campaigns | 3 |
| COM 29469 | Internship in Public Relations | 1 to 3 |
| COM 29498 | Senior Capstone | 3 |

Cognate Courses (12 hours)

| | | |
|------------|------------------------------------|---|
| MMED 20130 | Professional Media Writing | 3 |
| MMED 20333 | Social Media Strategies | 3 |
| ENGL 10315 | Professional and Technical Writing | 3 |
| | OR | |
| ENGL 10430 | Digital Literacy | 3 |
| | OR | |
| ENGL 10512 | Publication Skills | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Six hours from the following according to student's area of emphasis (6 hours):

| | | |
|-----------|---------------------------------|---|
| COM 29420 | Crisis Communication | 3 |
| COM 29402 | Current Topics in Communication | 3 |

Nine hours from the following to support the student's area of emphasis (9 hours):

| | | |
|------------|--------------------------------|---|
| MMED 20230 | Introduction to Advertising | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| MMED 20304 | Advertising Case Studies | 3 |
| COM 29336 | Nonverbal Communication | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| COM 29425 | Knacktive | 3 |
| COM 29432 | Organizational Communication | 3 |
| ACCT 51201 | Accounting I | 3 |
| MGMT 54313 | Principles of Management | 3 |

| | | |
|------------|--------------------------------------|---|
| MKTG 55332 | Promotion | 3 |
| MKTG 55333 | Consumer Behavior | 3 |
| MKTG 55432 | Marketing Research | 3 |
| | Other courses as approved by advisor | |

Free electives as needed to reach minimum 120 graduation hours

Organizational Communication Option, 60 hours—No Minor Required

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (39 hours)

| | | |
|-----------|--|--------|
| | Communication Core | 15 |
| COM 29225 | Intercultural Communication | 3 |
| COM 29240 | Principles of Leadership | 3 |
| COM 29260 | Public Relations Techniques | 3 |
| COM 29310 | Communication Research Methods | 3 |
| COM 29325 | Listening Behavior and Skills | 3 |
| COM 29432 | Organizational Communication | 3 |
| COM 29467 | Internship in Organizational Communication | 1 to 3 |
| COM 29498 | Senior Capstone | 3 |

Six hours to be chosen from the following (6 hours):

| | | |
|-----------|--------------------------|--------|
| COM 29336 | Nonverbal Communication | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| COM 29401 | Special Topics | 1 to 3 |
| COM 29420 | Crisis Communication | 3 |

Cognate Courses (12 hours)

| | | |
|------------|------------------------------------|---|
| PSYC 08313 | Psychology at Work | 3 |
| ENGL 10315 | Professional and Technical Writing | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MGMT 54314 | Human Resource Management | 3 |

Three hours from the following (3 hours):

| | | |
|------------|---------------------------|---|
| PSYC 08363 | Psychology of Personality | 3 |
| SOC 35365 | Social Psychology | 3 |
| MGMT 54310 | Business Communication | 3 |

Free electives as needed to reach minimum 120 graduation hours

Interpersonal Communication Option, 36 hours—Minor Required

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (36 hours)

| | | |
|-----------|------------------------------------|--------|
| | Communication Core | 15 |
| COM 29225 | Intercultural Communication | 3 |
| COM 29310 | Communication Research Methods | 3 |
| COM 29325 | Listening Behavior and Skills | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| COM 29468 | Internship in Speech Communication | 1 to 3 |
| COM 29498 | Senior Capstone | 3 |
| | Approved electives | 3 |

Minor requirements and or free electives as needed to reach minimum 120 graduation hours

Rhetoric Option, 36 hours—Minor Required

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (36 hours)

| | | |
|-----------|------------------------------------|--------|
| | Communication Core | 15 |
| COM 29225 | Intercultural Communication | 3 |
| COM 29310 | Communication Research Methods | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| COM 29343 | Rhetoric of American Issues | 3 |
| COM 29468 | Internship in Speech Communication | 1 to 3 |
| COM 29498 | Senior Capstone | 3 |
| | Approved electives | 3 |

Note: COM 29235 Introduction to Classical Rhetoric is a prerequisite for COM 29343 and will satisfy a Northwest Core requirement.

Minor requirements and or free electives as needed to reach minimum 120 graduation hours

Communication Minor, 24 hours

CIP: 090999

Requirements

Required Courses (15 hours)

| | |
|--------------------|----|
| Communication Core | 15 |
|--------------------|----|

Select one emphasis area for an additional nine hours (9 hours):

Interpersonal Communication Emphasis

| | | |
|-----------|-------------------------------|---|
| COM 29225 | Intercultural Communication | 3 |
| COM 29325 | Listening Behavior and Skills | 3 |
| COM 29336 | Nonverbal Communication | 3 |

Organizational Communication Emphasis

| | | |
|-----------|------------------------------|---|
| COM 29225 | Intercultural Communication | 3 |
| COM 29240 | Principles of Leadership | 3 |
| COM 29432 | Organizational Communication | 3 |

Public Relations Emphasis

| | | |
|-----------|---|---|
| COM 29260 | Public Relations Techniques | 3 |
| COM 29360 | Principles of Public Relations | 3 |
| COM 29460 | Public Relations Problems: Cases, Concepts, and Campaigns | 3 |

The Northwest Core (44-47 hours)

Recommended for Public Relations Emphasis:

| | | |
|-----------|-----------------------------|---|
| COM 29225 | Intercultural Communication | 3 |
|-----------|-----------------------------|---|

Rhetoric Emphasis

| | | |
|-----------|-----------------------------|---|
| COM 29225 | Intercultural Communication | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| COM 29343 | Rhetoric of American Issues | 3 |

The Northwest Core (44-47 hours)

Must include the following for Rhetoric Emphasis:

| | | |
|-----------|------------------------------------|---|
| COM 29235 | Introduction to Classical Rhetoric | 3 |
|-----------|------------------------------------|---|

Speech/Theatre Education

Speech/Theatre Education Core Requirements

Requirements

Core Requirements for Majors in Speech/Theatre Education (18 hours)

| | | |
|------------|--|---|
| THEA 43110 | Theatre Foundations | 3 |
| THEA 43210 | Design Principles in Theatre | 3 |
| THEA 43225 | Oral Interpretation and Textual Analysis | 3 |

| | | |
|------------|----------------------|---|
| THEA 43230 | Acting | 3 |
| COM 29210 | Communication Theory | 3 |
| COM 29230 | Public Speaking | 3 |

**Speech/Theatre Education Comprehensive Major, 55 hours:
B.S.Ed.—No Minor Required (Certifies Grades 9-12)**

CIP: 131399

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (42 hours)

| | | |
|------------|---|--------|
| | Speech/Theatre Education Core Requirements | 18 |
| COM 29133 | Practicum in Debate and Forensics AND/OR | 1 to 4 |
| COM 29338 | Advanced Practicum in Debate and Forensics | 1 to 4 |
| COM 29232 | Small Group Communication✓ | 3 |
| COM 29325 | Listening Behavior and Skills | 3 |
| COM 29332 | Propaganda and Persuasion | 3 |
| COM 29335 | Interpersonal Communication✓ | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| THEA 43305 | Independent Practicum in Theatre | 1 |
| THEA 43373 | Directing | 3 |
| THEA 43460 | Creative Dramatics | 3 |

Note: COM 29133 and COM 29338 should be taken for a minimum of 2 credit hours total.

Two hours of technical skills from (2 hours):

| | | |
|------------|-----------------------------|---|
| THEA 43211 | Technical Skills: Scenery | 2 |
| THEA 43212 | Technical Skills: Costumes | 2 |
| THEA 43213 | Technical Skills: Electrics | 2 |

Three hours of theatre history from (3 hours):

| | | |
|------------|-----------------------|---|
| THEA 43407 | History of Theatre I | 3 |
| THEA 43408 | History of Theatre II | 3 |

Eight hours of approved speech communication, theatre, or mass communication electives (8 hours)

| | |
|-----------|---|
| Electives | 8 |
|-----------|---|

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take COM 29480 Methods in Teaching Speech/Theatre in the Secondary School as part of their professional education requirements.

Free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Secondary Program, meets Missouri teacher certification standards for Speech/Theatre grades 9-12.

Speech/Theatre Education Major, 38 hours: B.S.Ed.—Minor Required (Certifies Grades 9-12)

CIP: 131399

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)**Required Courses (33 hours)**

| | | |
|------------|--|--------|
| | Speech/Theatre Education Core Requirements | 18 |
| COM 29133 | Practicum in Debate and Forensics | 1 to 4 |
| | AND/OR | |
| COM 29338 | Advanced Practicum in Debate and Forensics | 1 to 4 |
| COM 29332 | Propaganda and Persuasion | 3 |
| COM 29335 | Interpersonal Communication✓ | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| THEA 43305 | Independent Practicum in Theatre | 1 |
| THEA 43373 | Directing | 3 |

Two hours of technical skills from (2 hours):

| | | |
|------------|-----------------------------|---|
| THEA 43211 | Technical Skills: Scenery | 2 |
| THEA 43212 | Technical Skills: Costumes | 2 |
| THEA 43213 | Technical Skills: Electrics | 2 |

Three hours of theatre history from (3 hours):

| | | |
|------------|-----------------------|---|
| THEA 43407 | History of Theatre I | 3 |
| THEA 43408 | History of Theatre II | 3 |

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take COM 29480 Methods in Teaching Speech/Theatre in the Secondary School as part of their professional education requirements.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Secondary Program, meets Missouri teacher certification standards for Speech/Theatre grades 9-12.

Speech/Theatre Education Minor, 32 hours, (Certifies Grades 9-12)

CIP: 131324

Requirements**Required Courses (29 hours)**

| | | |
|------------|--|--------|
| | Speech/Theatre Education Core Requirements | 18 |
| COM 29133 | Practicum in Debate and Forensics | 1 to 4 |
| COM 29335 | Interpersonal Communication✓ | 3 |
| COM 29341 | Argumentation and Debate | 3 |
| THEA 43305 | Independent Practicum in Theatre | 1 |
| THEA 43373 | Directing | 3 |

Three hours from (3 hours):

| | | |
|------------|-------------------------------|---|
| COM 29325 | Listening Behavior and Skills | 3 |
| COM 29332 | Propaganda and Persuasion | 3 |
| THEA 43407 | History of Theatre I | 3 |
| THEA 43408 | History of Theatre II | 3 |

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take COM 29480 Methods in Teaching Speech/Theatre in the Secondary School as part of their professional education requirements.

This minor, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Speech/Theatre grades 9-12.

Speech/Theatre for the Middle School Area of Endorsement, 24 hours

CIP: 131331

Requirements

Required Courses (24 hours)

| | | |
|------------|--------------------------|---|
| THEA 43110 | Theatre Foundations | 3 |
| THEA 43230 | Acting | 3 |
| THEA 43373 | Directing | 3 |
| THEA 43460 | Creative Dramatics | 3 |
| MMED 20220 | Media Literacy | 3 |
| COM 29210 | Communication Theory | 3 |
| COM 29230 | Public Speaking | 3 |
| COM 29341 | Argumentation and Debate | 3 |

Professional Education Requirements

See Middle School Education Program Requirements (p. 308)

Students must take COM 29480 Methods of Teaching Speech/Theatre in the Secondary School as part of their professional education requirements.

This endorsement, when completed under the B.S.Ed. Middle School Program, will meet Missouri teacher certification standards for Speech/Theatre grades 5-9. Advisement for Middle School Certification is provided by the School of Education (p. 299). Please also seek a secondary advisor from the content area.

Mass Media / 20

The School of Communication and Mass Media offers undergraduate programs in mass media, advertising, and digital media to prepare students for the converged media industry. The mass media major also allows students to learn a core set of production and critical thinking skills within a focused area of interest such as multimedia journalism, sports media, broadcast and production, and applied advertising. Students majoring in the mass media degrees develop not only communication skills (verbal, written, listening, and interpersonal) but also critical thinking skills and equipment and computer operation skills. Careful attention is given to achieving a balance between cognitive development and specific skills acquisition; therefore, students also develop a broad understanding and appreciation of the historical, theoretical and operational nature of the mass media.

In addition, students are encouraged at the very beginning of their University experience to become involved with a variety of hands-on activities with award-winning media outlets KZLX-LP, KXCV/KRNW-FM, KNWT-TV, *Northwest Missourian* newspaper, nwmissourinews.com (converged online news site), *Tower* yearbook, *Heartland View* online magazine, and student media organizations. These experiences lead to a realistic view of professional working conditions. Students are further guided in the acquisition of appropriate time management, adaptation, and teamwork skills.

Advanced Standing Requirement

Mass Media majors may not enroll in upper division mass media courses (numbered 300 or above) prior to successful completion of the School of Communication and Mass Media's advanced standing requirements:

1. Students must complete MMED 20110, MMED 20120 and MMED 20130 with a minimum grade of C.

- The student shall have an assigned major advisor from the Mass Media faculty.

Assessment of Core Proficiencies Requirement

Students must receive a score of at least 1 in two of the three test areas or they must retake the Assessment of Core Proficiencies test, an assessment given when the student reaches junior status. Students who do not reach this requirement will be notified by either their advisor or the department chairperson. It is the student's responsibility to arrange for retaking the test.

Degree Programs

The Bachelor of Arts in Media Studies (31 hours) is designed to provide students with theoretical and applied knowledge and a liberal arts education through the requirements for the B.A. degree.

The Bachelor of Science in Mass Media (55 hours), in Strategic Advertising (61 hours), and in Digital Media (61 hours) are available to those seeking the B.S. degree. In addition to providing a comprehensive theoretical foundation within the discipline, these degrees provide extensive practical knowledge and experience.

A minor in Broadcasting (24 hours), a minor in Journalism (24 hours), a minor in Advertising (24 hours) and an interdisciplinary minor in Digital Media (24 hours) are available to students with majors in other academic disciplines.

Agricultural Media, 63 hours: B.S.—No Minor Required

CIP: 010802

The program is an interdisciplinary program with collaboration between the School of Agricultural Sciences and the School of Communication and Mass Media. In addition, the program is designed to allow students to choose an emphasis area in broadcasting, journalism, or advertising with an internship in an agricultural media role as part of the degree requirement.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Core Courses in Agricultural Sciences (19 hours)

| | | |
|------------|--|---|
| AGRI 03102 | Principles of Microeconomics in Agriculture✓ | 3 |
| AGRI 03150 | Animal Science | 4 |
| AGRI 03232 | Crop Production | 3 |
| AGRI 03301 | Professional Selling in Agriculture | 3 |
| AGRI 03396 | Agricultural Advocacy | 3 |
| AGRI 03508 | Agriculture Policy | 3 |

Advisor-approved upper division electives in Agricultural Sciences (6 hours)

Any 300-level or higher course in Agricultural Sciences for which the prerequisites are met

Core Courses in Mass Media (21 hours)

| | | |
|------------|---|---|
| MMED 20110 | Fundamentals of Electronic Media Production | 3 |
| MMED 20130 | Professional Media Writing | 3 |
| MMED 20243 | Media Design | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| MMED 20314 | Communication Law and Ethics | 3 |
| MMED 20320 | Theories of Mass Communication | 3 |
| MMED 20333 | Social Media Strategies | 3 |

Media Practicum Requirement (1 hour)

Choose one from the following:

| | | |
|------------|----------------------------------|---|
| MMED 20150 | Journalism Practicum (Yearbook) | 1 |
| MMED 20151 | Journalism Practicum (Newspaper) | 1 |
| MMED 20215 | Practicum in Radio | 1 |
| MMED 20216 | Practicum in Television | 1 |

Internship Requirement (3 hours)

A minimum of 3 hours of advisor-approved internship is required.

| | | |
|------------|--|--------|
| AGRI 03498 | Agriculture Occupations Internship OR | 3 to 6 |
| MMED 20452 | Internship | 1 to 3 |

Seminar Requirement (1 hour)

Choose one from the following:

| | | |
|------------|----------------|---|
| AGRI 03296 | Seminar OR | 1 |
| MMED 20416 | Senior Seminar | 1 |

Select one of three emphasis areas (12 hours):

Production/Broadcasting Track (6 hours)

| | | |
|------------|-----------------------|---|
| MMED 20224 | Introduction to Audio | 3 |
| MMED 20225 | Video Production | 3 |

Advisor-approved upper-division electives (6 hours)

Choose from the following:

| | | |
|------------|--------------------------------|---|
| MMED 20315 | Video Journalism | 3 |
| MMED 20329 | Audio Technology and Recording | 3 |
| MMED 20330 | Advanced Video Production | 3 |
| MMED 20334 | UX and Analytics | 3 |
| MMED 20417 | Television Directing | 3 |

Journalism Track (6 hours)

| | | |
|------------|-----------------|---|
| MMED 20352 | Copy Editing | 3 |
| MMED 20358 | Feature Writing | 3 |

Advisor-approved upper-division electives (6 hours)

Choose from the following:

| | | |
|------------|--------------------|---|
| MMED 20327 | Advanced Reporting | 3 |
| MMED 20357 | Opinion Writing | 3 |
| MMED 20425 | Knacktive | 3 |

Advertising Track (6 hours)

| | | |
|------------|-----------------------------|---|
| MMED 20230 | Introduction to Advertising | 3 |
| MMED 20304 | Advertising Case Studies | 3 |

Advisor-approved upper division electives (6 hours)

Choose from the following:

| | | |
|------------|-----------------------|---|
| MMED 20334 | UX and Analytics | 3 |
| MMED 20343 | Communication Design | 3 |
| MMED 20425 | Knacktive | 3 |
| MMED 20428 | Advertising Campaigns | 3 |

Free electives as needed to reach minimum 120 graduation hours

Digital Media Comprehensive Major, 61 hours: B.S.—No Minor Required

CIP: 110801

Content Strategy Concentration

This is an interdisciplinary major in conjunction with the Department of Fine and Performing Arts, the School of Computer Science and Information Systems, and the School of Communication and Mass Media. Three concentrations are available for this major: Computer Science Programming (Computer Science and Information Systems), Content Strategy (Communication and Mass Media) and Visual Imaging (Fine and Performing Arts).

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Must include the following:

| | | |
|------------|--------------------------------------|---|
| CSIS 44130 | Computers and Information Technology | 3 |
|------------|--------------------------------------|---|

Required Core Courses (27 hours)

| | | |
|------------|------------------------------------|---|
| ART 13191 | 2D Design | 3 |
| ART 13292 | Introduction to Digital Art Studio | 3 |
| ART 13294 | Typography | 3 |
| MMED 20120 | Introduction to Mass Media | 3 |
| MMED 20243 | Media Design | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| CSIS 44144 | Web Development I | 3 |
| CSIS 44334 | Web Development II | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Required Courses for Content Strategy Concentration (28 hours)

| | | |
|------------|---|---|
| MMED 20110 | Fundamentals of Electronic Media Production | 3 |
| MMED 20130 | Professional Media Writing | 3 |
| MMED 20230 | Introduction to Advertising | 3 |
| MMED 20314 | Communication Law and Ethics | 3 |
| MMED 20333 | Social Media Strategies | 3 |
| MMED 20334 | UX and Analytics | 3 |
| MMED 20343 | Communication Design | 3 |
| MMED 20355 | Photojournalism | 3 |
| MMED 20409 | Media Business and Entrepreneurship | 3 |
| MMED 20416 | Senior Seminar | 1 |

Advisor-Approved Electives (3 hours)

| | |
|----------------------------|---|
| Advisor-approved electives | 3 |
|----------------------------|---|

Choose three hours from the following courses (3 hours):

| | | |
|------------|---|--------|
| MMED 20150 | Journalism Practicum (Yearbook) | 1 |
| MMED 20151 | Journalism Practicum (Newspaper) | 1 |
| MMED 20215 | Practicum in Radio | 1 |
| MMED 20216 | Practicum in Television | 1 |
| MMED 20322 | Advanced Practicum in Radio | 2 |
| MMED 20326 | Advanced Practicum in Television | 2 |
| MMED 20350 | Advanced Journalism Practicum (Yearbook) | 2 |
| MMED 20351 | Advanced Journalism Practicum (Newspaper) | 2 |
| MMED 20450 | Mass Communication Study Abroad | 1 to 6 |
| MMED 20452 | Internship | 1 to 3 |

Free electives as needed to reach minimum 120 graduation hours

This major requires CSIS 44130 Computers and Information Technology as a prerequisite course as required by course descriptions. Students, therefore, should take this course for their Digital Literacy Institutional Requirement.

Concentration in Computer Science Programming

see the School of Computer Science and Information Systems (p. 290)

Concentration in Visual Imaging

see the Department of Fine and Performing Arts (p. 104)

Mass Media Major, 55 hours: B.S.—No Minor Required

CIP: 090100

Areas of Emphasis: Applied Advertising, Broadcast and Production, Multimedia Journalism, Sports Media

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Core Courses for a Major in Mass Media

Required Core Courses (28 hours)

| | | |
|------------|---|---|
| MMED 20110 | Fundamentals of Electronic Media Production | 3 |
| MMED 20120 | Introduction to Mass Media | 3 |
| MMED 20130 | Professional Media Writing | 3 |
| MMED 20220 | Media Literacy | 3 |
| MMED 20243 | Media Design | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| MMED 20314 | Communication Law and Ethics | 3 |
| MMED 20320 | Theories of Mass Communication | 3 |
| MMED 20409 | Media Business and Entrepreneurship | 3 |
| MMED 20416 | Senior Seminar | 1 |

Mass Media: Applied Advertising Emphasis

Required Courses (49 hours)

| | | |
|------------|----------------------------------|----|
| | Mass Media Core | 28 |
| ENGL 10210 | Introduction to Creative Writing | 3 |
| MMED 20230 | Introduction to Advertising | 3 |
| MMED 20304 | Advertising Case Studies | 3 |
| MMED 20333 | Social Media Strategies | 3 |
| MMED 20343 | Communication Design | 3 |
| MMED 20428 | Advertising Campaigns | 3 |
| | Advisor-approved elective | 3 |

Six hours from the following (6 hours):

| | | |
|------------|---|---|
| MMED 20150 | Journalism Practicum (Yearbook) | 1 |
| MMED 20151 | Journalism Practicum (Newspaper) | 1 |
| MMED 20215 | Practicum in Radio | 1 |
| MMED 20216 | Practicum in Television | 1 |
| MMED 20322 | Advanced Practicum in Radio | 2 |
| MMED 20326 | Advanced Practicum in Television | 2 |
| MMED 20350 | Advanced Journalism Practicum (Yearbook) | 2 |
| MMED 20351 | Advanced Journalism Practicum (Newspaper) | 2 |

Mass Media: Broadcast and Production Emphasis

Required Courses (40 hours)

| | | |
|------------|--------------------------------------|----|
| | Mass Media Core | 28 |
| MMED 20111 | Introduction to Broadcast Operations | 3 |
| MMED 20224 | Introduction to Audio | 3 |
| MMED 20225 | Video Production | 3 |
| MMED 20230 | Introduction to Advertising | 3 |
| | OR | |
| MMED 20304 | Advertising Case Studies | 3 |

Three hours from the following (3 hours):

| | | |
|------------|-------------------------|---|
| MMED 20215 | Practicum in Radio | 1 |
| MMED 20216 | Practicum in Television | 1 |

| | | |
|------------|----------------------------------|---|
| MMED 20322 | Advanced Practicum in Radio | 2 |
| MMED 20326 | Advanced Practicum in Television | 2 |

Choose one of the following concentration areas for twelve hours (12 hours):

Audio Concentration

| | | |
|------------|--------------------------------|---|
| MMED 20329 | Audio Technology and Recording | 3 |
| MMED 20406 | Advanced Audio (Music) | 3 |
| | OR | |
| MMED 20407 | Advanced Audio (Post) | 3 |
| MMED 20370 | Live Sound Theory and Practice | 3 |
| | OR | |
| MMED 20490 | Sound Design and Aesthetics | 3 |
| | Advisor-approved electives | 3 |

Video Concentration

| | | |
|------------|---------------------------|---|
| MMED 20330 | Advanced Video Production | 3 |
| MMED 20417 | Television Directing | 3 |
| | OR | |
| MMED 20484 | Digital Cinematography | 3 |
| | Approved Electives | 6 |

Mass Media: Multimedia Journalism Emphasis

Required Courses (52 hours)

| | | |
|------------|----------------------------|----|
| | Mass Media Core | 28 |
| MMED 20227 | Reporting | 3 |
| MMED 20315 | Video Journalism | 3 |
| MMED 20327 | Advanced Reporting | 3 |
| MMED 20333 | Social Media Strategies | 3 |
| MMED 20352 | Copy Editing | 3 |
| MMED 20355 | Photojournalism | 3 |
| MMED 20357 | Opinion Writing | 3 |
| | OR | |
| MMED 20358 | Feature Writing | 3 |
| | Advisor-approved electives | 3 |

Three hours from the following (3 hours):

| | | |
|------------|---|---|
| MMED 20150 | Journalism Practicum (Yearbook) | 1 |
| MMED 20151 | Journalism Practicum (Newspaper) | 1 |
| MMED 20215 | Practicum in Radio | 1 |
| MMED 20216 | Practicum in Television | 1 |
| MMED 20322 | Advanced Practicum in Radio | 2 |
| MMED 20326 | Advanced Practicum in Television | 2 |
| MMED 20350 | Advanced Journalism Practicum (Yearbook) | 2 |
| MMED 20351 | Advanced Journalism Practicum (Newspaper) | 2 |

Mass Media: Sports Media Emphasis

Required Courses (49 hours)

| | | |
|------------|---------------------|----|
| | Mass Media Core | 28 |
| MMED 20227 | Reporting | 3 |
| MMED 20315 | Video Journalism | 3 |
| MMED 20345 | Sports Broadcasting | 3 |
| MMED 20352 | Copy Editing | 3 |
| MMED 20356 | Sports Photography | 3 |
| MMED 20359 | Sports Reporting | 3 |

| | |
|----------------------------|---|
| Advisor-approved electives | 3 |
|----------------------------|---|

Choose one Theory and Fundamentals of Coaching course (2 hours):

| | | |
|------------|---|---|
| HPER 22481 | Theory and Fundamentals of Coaching Soccer | 2 |
| HPER 22482 | Theory and Fundamentals of Coaching Baseball | 2 |
| HPER 22483 | Theory and Fundamentals of Coaching Track and Field | 2 |
| HPER 22484 | Theory and Fundamentals of Coaching Basketball | 2 |
| HPER 22485 | Theory and Fundamentals of Coaching Football | 2 |
| HPER 22486 | Theory and Fundamentals of Coaching Volleyball | 2 |

Choose one Officiating class (1 hour):

| | | |
|------------|-----------------------------------|---|
| HPER 22281 | Officiating Soccer | 1 |
| HPER 22282 | Officiating Baseball and Softball | 1 |
| HPER 22283 | Officiating Track and Field | 1 |
| HPER 22284 | Officiating Basketball | 1 |
| HPER 22285 | Officiating Football | 1 |
| HPER 22286 | Officiating Volleyball | 1 |
| HPER 22287 | Officiating Wrestling | 1 |

Three hours from the following (3 hours):

| | | |
|------------|---|---|
| MMED 20150 | Journalism Practicum (Yearbook) | 1 |
| MMED 20151 | Journalism Practicum (Newspaper) | 1 |
| MMED 20215 | Practicum in Radio | 1 |
| MMED 20216 | Practicum in Television | 1 |
| MMED 20322 | Advanced Practicum in Radio | 2 |
| MMED 20326 | Advanced Practicum in Television | 2 |
| MMED 20350 | Advanced Journalism Practicum (Yearbook) | 2 |
| MMED 20351 | Advanced Journalism Practicum (Newspaper) | 2 |

Free electives as needed to reach minimum 120 graduation hours**Media Studies Major, 31 hours: B.A.—Minor Required**

CIP: 090100

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****B.A. Modern Language Requirement (9 hours)**

Modern Language

9

All 9 hours must be in the same language.

Required Courses (31 hours)

| | | |
|------------|-------------------------------------|---|
| MMED 20120 | Introduction to Mass Media | 3 |
| MMED 20130 | Professional Media Writing | 3 |
| MMED 20220 | Media Literacy | 3 |
| MMED 20221 | Ethnographic Film Study✓ | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| MMED 20314 | Communication Law and Ethics | 3 |
| MMED 20333 | Social Media Strategies | 3 |
| MMED 20320 | Theories of Mass Communication | 3 |
| MMED 20409 | Media Business and Entrepreneurship | 3 |
| MMED 20412 | Comparative Mass Media Systems | 3 |
| MMED 20416 | Senior Seminar | 1 |

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours**Strategic Advertising Major, 61 hours: B.S.—No Minor Required**

CIP: 090903

The Strategic Advertising Major blends applied advertising coursework with strategic marketing and other business courses. Students will learn business fundamentals while delving deeper into the discipline of advertising, which includes message and media strategies.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (61 hours)

| | | |
|------------|---|--------|
| MMED 20130 | Professional Media Writing | 3 |
| MMED 20151 | Journalism Practicum (Newspaper) | 1 |
| MMED 20230 | Introduction to Advertising | 3 |
| MMED 20243 | Media Design | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| MMED 20304 | Advertising Case Studies | 3 |
| MMED 20333 | Social Media Strategies | 3 |
| MMED 20351 | Advanced Journalism Practicum (Newspaper) | 2 |
| MMED 20409 | Media Business and Entrepreneurship | 3 |
| MMED 20416 | Senior Seminar | 1 |
| MMED 20428 | Advertising Campaigns | 3 |
| ACCT 51201 | Accounting I | 3 |
| ACCT 51202 | Accounting II | 3 |
| FIN 53311 | Business Law I | 3 |
| FIN 53324 | Fundamentals of Business Finance | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |
| MKTG 55332 | Promotion | 3 |
| MKTG 55333 | Consumer Behavior | 3 |
| MKTG 55430 | Sales and Sales Management | 3 |
| MKTG 55432 | Marketing Research | 3 |
| MKTG 55438 | International Business | 3 |
| | OR | |
| MMED 20450 | Mass Communication Study Abroad | 1 to 6 |

Free electives as needed to reach minimum 120 graduation hours

Advertising Minor, 24 hours

CIP: 090903

This minor focuses on the applied aspects of advertising, covering basic skill sets of writing, design, and media planning, with a focus on digital and social platforms.

Requirements

Required Courses (21 hours)

| | | |
|------------|------------------------------|---|
| MMED 20130 | Professional Media Writing | 3 |
| MMED 20230 | Introduction to Advertising | 3 |
| MMED 20243 | Media Design | 3 |
| MMED 20304 | Advertising Case Studies | 3 |
| MMED 20314 | Communication Law and Ethics | 3 |
| MMED 20333 | Social Media Strategies | 3 |
| MMED 20428 | Advertising Campaigns | 3 |

Three hours from the following (3 hours):

| | | |
|------------|----------------------------------|---|
| ENGL 10210 | Introduction to Creative Writing | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| MMED 20343 | Communication Design | 3 |
| MMED 20425 | Knacktive | 3 |

Audio Production Minor, 24 hours

CIP: 500913

Requirements**Required Courses**

| | | |
|------------|--------------------------------------|---|
| MMED 20120 | Introduction to Mass Media | 3 |
| MMED 20220 | Media Literacy | 3 |
| MMED 20224 | Introduction to Audio | 3 |
| MMED 20329 | Audio Technology and Recording | 3 |
| MMED 20406 | Advanced Audio (Music) | 3 |
| MMED 20407 | Advanced Audio (Post) | 3 |
| MMED 20408 | Music Business | 3 |
| MMED 20370 | Live Sound Theory and Practice OR | 3 |
| MMED 20490 | Sound Design and Aesthetics | 3 |

Broadcasting Minor, 24 hours

CIP: 090701

Requirements**Required Courses (24 hours)**

| | | |
|------------|--------------------------------------|---|
| MMED 20111 | Introduction to Broadcast Operations | 3 |
| MMED 20120 | Introduction to Mass Media | 3 |
| MMED 20220 | Media Literacy | 3 |
| MMED 20224 | Introduction to Audio | 3 |
| MMED 20225 | Video Production | 3 |
| MMED 20314 | Communication Law and Ethics | 3 |
| MMED 20320 | Theories of Mass Communication | 3 |
| MMED 20230 | Introduction to Advertising OR | 3 |
| MMED 20304 | Advertising Case Studies | 3 |

Digital Media Minor, 24 hours

CIP: 110801

This is an interdisciplinary minor in conjunction with the Department of Fine and Performing Arts, the School of Computer Science and Information Systems, and the School of Communication and Mass Media.

This minor requires CSIS 44130 Computers and Information Technology as a prerequisite course as required by course descriptions.

Requirements**Required Courses (18 hours)**

| | | |
|------------|------------------------------------|---|
| ART 13191 | 2D Design | 3 |
| ART 13292 | Introduction to Digital Art Studio | 3 |
| MMED 20243 | Media Design | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| CSIS 44144 | Web Development I | 3 |
| CSIS 44334 | Web Development II | 3 |

Electives (6 hours):

(Select any six hours from the following):

| | | |
|-----------|---------------------|---|
| ART 13120 | Drawing✓ | 3 |
| ART 13207 | Digital Photography | 3 |

| | | |
|------------|------------------------|---|
| MMED 20334 | UX and Analytics | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44335 | Script Programming | 3 |

Journalism Minor, 24 hours

CIP: 090401

Requirements

Required Courses (24 hours)

| | | |
|------------|--|---|
| MMED 20120 | Introduction to Mass Media | 3 |
| MMED 20130 | Professional Media Writing | 3 |
| MMED 20150 | Journalism Practicum (Yearbook) OR | 1 |
| MMED 20151 | Journalism Practicum (Newspaper) | 1 |
| MMED 20227 | Reporting | 3 |
| MMED 20243 | Media Design | 3 |
| MMED 20314 | Communication Law and Ethics | 3 |
| MMED 20320 | Theories of Mass Communication | 3 |
| MMED 20350 | Advanced Journalism Practicum (Yearbook) OR | 2 |
| MMED 20351 | Advanced Journalism Practicum (Newspaper) | 2 |
| MMED 20352 | Copy Editing | 3 |

School of Computer Science and Information Systems

Director: Joni Adkins

Faculty: Ali AlAli, Ajay Bandi, Denise Case, Prasad Chetti, Cari Cline, Crystal Combs, Nathan Eloe, Aziz Fellah, Charles Hoot, Chandra Kotteti, Ratan Lal, Diana Linville, Zhengrui Qin, Matthew Schieber, Zhiling Tu, Nancy Zeliff

Statement of Mission

The mission of the School of Computer Science and Information Systems is to provide programs through which students learn to solve problems and gain professional competence in the areas of computer science and information systems. In addition to courses supporting our majors, we offer core and service courses that reflect the pivotal role of computer science and information systems in all disciplines. The goal of each major is to provide a sufficiently focused curriculum to enable each student to compete successfully in the job market, while also providing sufficient breadth to facilitate lifelong learning, whether that learning continues through formal graduate study or on-the-job experiences. Each major offers the student opportunities to obtain thorough knowledge of the field of study, develop the professional competencies to communicate that knowledge, and acquire a value system to make sound decisions regarding the issues that confront professionals in the work place.

Degree Programs

The School of Computer Science and Information Systems offers programs leading to the Bachelor of Science degree in the areas of business technology, computer science, cybersecurity, data science and informatics-computer science, digital media-computer science, and management information systems. For students interested in teaching business and marketing, in grades 9-12, the school offers the Bachelor of Science in Education degree with a major in business education and a minor in marketing education. For students interested in teaching business, in grades 5-9, the school offers a minor in middle school business. In addition, there are minors in accounting information systems, agriculture data and information systems, business education (as well as non-degree business technology and information systems programs), computer applications, cybersecurity, computer science, data management, digital media, and systems management.

Business technology students gain skills through a unique combination of business, computer applications, and digital technology. The program develops students' interpersonal, decision-making, and analytical skills. Graduates will effectively assist organizations with business, computer, and technology operations.

Computer science majors focus on software design and implementation. The program also provides a solid background in the fundamental principles of computer networks, computer organization, database systems, operating systems, programming languages, and software engineering. Students have the option of specializing in one of 3 areas: Data Management, Mobile Computing, or Information Assurance and Security.

Students in cybersecurity focus on developing skills and knowledge related to protecting computer systems. This includes preventing, detecting and responding to cyberattacks on computer related infrastructure within an organization. Coursework will build a strong background in software development, networking, and data management. Students will learn to apply this knowledge and help develop policies to improve security for computing systems.

Students in the cross-disciplinary data science and informatics program (computer science emphasis) will cultivate the skills needed to collect and analyze data to form decisions and gain insight into application areas so a responsible narrative can be presented using the information extracted from the raw data. Courses in this program will prepare students to extract data

from unconventional sources, transform data, and convert data into actionable information. In addition, students will be introduced to the ethical ramifications of how results are presented.

Digital media students will develop cross-disciplinary knowledge and skills in areas that deal with visual aesthetic understanding and communication, integrated with technological knowledge. Students in the computer science programming concentration will design and implement web applications, and explore the additional topics of computer organization, networking, database development, web application and services, and other computer technologies.

Students in the management information systems program develop a solid, interrelated combination of business knowledge and applied computer technology skills. This combination makes graduates suited for a variety of information technology careers, including analyst and systems engineer.

In all of these programs, students learn fundamental concepts while engaging in activities similar to those encountered in the workplace. Small classes taught by full-time faculty using active learning instructional paradigms focus on the student's learning process, with the teacher's role as guide, facilitator, and mentor.

Test-Out Policy

Undergraduate students may test out of certain lower division courses (44-130, 44-101, 44-141) in Computer Science/Information Systems. Examinations are available each semester. See the School Director for deadlines and procedures for test out.

Senior Assessment

For each of the majors in the School of Computer Science and Information Systems, a senior-level major field assessment must be completed by each student.

Non-Degree Programs

The School of Computer Science and Information Systems offers a two-year business technology program. On the successful completion of a program, the student is awarded a certificate. Unless otherwise noted, all courses in this program are fully accredited and may be applied to a degree program should a student later decide to complete a college degree. A student must maintain a "C" average. All non-degree programs in the School of Computer Science and Information Systems require CSIS 44130 Computers and Information Technology, or CSIS 44101 Foundations of Computing as a prerequisite course as required by course descriptions.

Computer Science and Information Systems / 44

Business Education Major, 42 hours: B.S.Ed., Secondary Program—No Minor Required (Certifies Grades 9-12)

CIP: 131303

Attain at least a cumulative 3.00 GPA and a minimum grade of C in all School of Computer Science and Information Systems Courses.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Must include the following:

CSIS 44130 Computers and Information Technology

Required Courses (36 hours)

| | | |
|------------|--|---|
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| ECON 52151 | Principles of Microeconomics✓ | 3 |
| ACCT 51201 | Accounting I | 3 |
| ACCT 51202 | Accounting II | 3 |
| FIN 53311 | Business Law I | 3 |
| MGMT 54310 | Business Communication | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |
| CSIS 44336 | Spreadsheet Applications | 1 |
| CSIS 44337 | Advanced Spreadsheets and Charting | 1 |
| CSIS 44343 | Digital Technologies | 3 |
| CSIS 44346 | Database Applications | 1 |
| CSIS 44410 | Coordination of Cooperative Education | 3 |
| CSIS 44470 | Implementing Business and Marketing Education Programs | 3 |

ECON 52150 fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Choose 6 hours from (6 hours):

| | | |
|------------|--------------------------------|---|
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44144 | Web Development I | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44317 | Management Information Systems | 3 |
| CSIS 44320 | Advanced Word Processing | 1 |
| CSIS 44330 | Presentation Graphics | 1 |
| CSIS 44334 | Web Development II | 3 |
| CSIS 44340 | Digital Media | 1 |

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take CSIS 44480 Methods of Teaching Business and Marketing as part of their professional education requirements.

Free electives as needed to reach minimum 120 graduation hours

This major, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Business Education grades 9-12.

Business Technology Comprehensive Major, 72 hours: B.S.—No Minor Required**CIP: 520407**

Students choosing a Comprehensive Major in Business Technology must attain at least a cumulative 2.0 GPA and earn a minimum grade of C in all Computer Science and Information Systems and Common Professional Component (p. 252) courses. Students are expected to complete at least 60% of the major from Northwest.

This program has an online-only option.

Requirements**The Northwest Core (44-47 hours)****Institutional Requirements (4 hours)****Common Professional Component (48 hours)****Required Courses (18 hours)**

| | | |
|------------|--------------------------|---|
| CSIS 44320 | Advanced Word Processing | 1 |
| CSIS 44330 | Presentation Graphics | 1 |
| CSIS 44336 | Spreadsheet Applications | 1 |

| | | |
|------------|--|---|
| CSIS 44337 | Advanced Spreadsheets and Charting | 1 |
| CSIS 44340 | Digital Media | 1 |
| CSIS 44343 | Digital Technologies | 3 |
| CSIS 44346 | Database Applications | 1 |
| CSIS 44454 | Senior Capstone: Business Technology Integration | 3 |
| | Approved Electives | 6 |

Choose one of the following emphasis areas for six hours (6 hours):

Digital Media Emphasis

| | | |
|------------|--------------------|---|
| CSIS 44144 | Web Development I | 3 |
| CSIS 44334 | Web Development II | 3 |

Management Emphasis

| | | |
|------------|------------------------------------|---|
| MGMT 54314 | Human Resource Management | 3 |
| MGMT 54316 | Organizational Behavior and Theory | 3 |

Free electives as needed to reach minimum 120 graduation hours

This program is an ACBSP accredited program.

Computer Science Comprehensive Major, 66-69 hours: B.S.—No Minor Required

CIP: 110101

Students choosing a Computer Science major must attain at least a cumulative 2.0 GPA and earn a minimum grade of C in all School of Computer Science and Information Systems courses. A major field assessment is required of all senior year students majoring in computer science.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Must include the following:

| | | |
|------------|--------------------------|---|
| CSIS 44101 | Foundations of Computing | 3 |
|------------|--------------------------|---|

Required Courses (39 hours)

| | | |
|------------|--|---|
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44242 | Data Structures | 3 |
| CSIS 44249 | Building Blocks of Theoretical Computer Science | 3 |
| CSIS 44296 | Professional Development Seminar | 3 |
| CSIS 44345 | Computer Organization | 3 |
| CSIS 44349 | A Survey of Algorithms | 3 |
| CSIS 44356 | Network Fundamentals | 3 |
| CSIS 44460 | Database Systems | 3 |
| CSIS 44525 | Theory and Implementation of Programming Languages | 3 |
| CSIS 44550 | Operating Systems | 3 |
| CSIS 44561 | Software Engineering Principles | 3 |
| CSIS 44562 | Software Engineering Practice | 3 |

Emphasis Areas (18 hours)

Choose one or more of the following emphases:

Data Management Emphasis

| | | |
|------------|-------------------------------------|---|
| CSIS 44517 | Big Data | 3 |
| CSIS 44560 | Advanced Topics in Database Systems | 3 |
| CSIS 44566 | Machine Learning | 3 |
| | Advisor-approved electives | 9 |

Mobile Computing Emphasis

| | | |
|------------|----------------------|---|
| CSIS 44443 | Mobile Computing-iOS | 3 |
|------------|----------------------|---|

| | | |
|------------|-------------------------------------|---|
| CSIS 44444 | Mobile Computing-Android | 3 |
| CSIS 44451 | Advanced Topics in Mobile Computing | 3 |
| | Advisor-approved electives | 9 |

Information Assurance and Security Emphasis

| | | |
|------------|------------------------------|---|
| CSIS 44359 | Secure System Administration | 3 |
| CSIS 44457 | Applied Cryptography | 3 |
| CSIS 44555 | Network Security | 3 |
| | Advisor-approved electives | 9 |

Core Computer Science Emphasis

Choose 18 hours from the following courses:

| | | |
|------------|--|--------|
| CSIS 44351 | Foundations of Game Development | 3 |
| CSIS 44359 | Secure System Administration | 3 |
| CSIS 44382 | Secure Programming | 3 |
| CSIS 44386 | Digital Forensics | 3 |
| CSIS 44413 | Visualization | 3 |
| CSIS 44425 | Knacktive | 3 |
| CSIS 44440 | Internet of Things | 3 |
| CSIS 44443 | Mobile Computing-iOS | 3 |
| CSIS 44444 | Mobile Computing-Android | 3 |
| CSIS 44495 | Internship in Computer Science/Information Systems | 1 to 3 |
| CSIS 44451 | Advanced Topics in Mobile Computing | 3 |
| CSIS 44457 | Applied Cryptography | 3 |
| CSIS 44481 | Ethical Hacking | 3 |
| CSIS 44484 | Cyber Risk Management and Incident Response | 3 |
| CSIS 44517 | Big Data | 3 |
| CSIS 44520 | Web Mining | 3 |
| CSIS 44555 | Network Security | 3 |
| CSIS 44560 | Advanced Topics in Database Systems | 3 |
| CSIS 44563 | Developing Web Applications and Services | 3 |
| CSIS 44566 | Machine Learning | 3 |
| CSIS 44599 | Special Projects | 1 to 6 |

Math Options

Choose Math Option A or Math Option B

Math Option A (12 hours)

| | | |
|------------|----------------------|---|
| MATH 17117 | Precalculus✓ | 5 |
| | OR | |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| | AND | |
| MATH 17119 | Trigonometry | 2 |
| MATH 17120 | Calculus I | 4 |
| MATH 17114 | General Statistics✓ | 3 |

MATH 17117, MATH 17118, and MATH 17120: Any of these courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the hours required for graduation.

Math Option B (9-11 hours)

| | | |
|------------|-----------------------------|---|
| MATH 17117 | Precalculus✓ | 5 |
| | OR | |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17316 | Linear Statistical Models I | 3 |

MATH 17117 and MATH 17118: Any of these courses fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the hours required for graduation.

Free electives as needed to reach minimum 120 graduation hours

Cybersecurity Comprehensive Major, 60-62 hours: B.S.—No Minor Required

CIP: 111003

Students in cybersecurity focus on developing skills and knowledge related to protecting computer systems. This includes preventing, detecting, and responding to cyberattacks on computer-related infrastructure within an organization. Coursework will build a strong background in software development, networking, and data management. Students will learn to apply this knowledge and help develop policies to improve security for computing systems.

Students choosing a Cybersecurity major must attain at least a cumulative 2.0 GPA and earn a minimum grade of C in all School of Computer Science and Information Systems courses.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Must include the following:

| | | |
|------------|--------------------------------------|---|
| CSIS 44101 | Foundations of Computing | 3 |
| | OR | |
| CSIS 44130 | Computers and Information Technology | 3 |

Must earn a grade of C or better.

Required Courses (57 hours)

| | | |
|------------|---|---|
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44181 | Introduction to Cybersecurity | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44242 | Data Structures | 3 |
| CSIS 44249 | Building Blocks of Theoretical Computer Science | 3 |
| CSIS 44296 | Professional Development Seminar | 3 |
| CSIS 44345 | Computer Organization | 3 |
| CSIS 44349 | A Survey of Algorithms | 3 |
| CSIS 44356 | Network Fundamentals | 3 |
| CSIS 44359 | Secure System Administration | 3 |
| CSIS 44382 | Secure Programming | 3 |
| CSIS 44386 | Digital Forensics | 3 |
| CSIS 44457 | Applied Cryptography | 3 |
| CSIS 44460 | Database Systems | 3 |
| CSIS 44481 | Ethical Hacking | 3 |
| CSIS 44484 | Cyber Risk Management and Incident Response | 3 |
| CSIS 44550 | Operating Systems | 3 |
| PHIL 39275 | Professional Ethics✓ | 3 |
| PSYC 08103 | General Psychology✓ | 3 |

PSYC 08103 and PHIL 39275 each fulfill a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Mathematics/Statistics Options (3-5 hours)

| | | |
|------------|----------------------|---|
| MATH 17114 | General Statistics✓ | 3 |
| | OR | |
| MATH 17117 | Precalculus✓ | 5 |
| | OR | |
| MATH 17118 | Precalculus Algebra✓ | 3 |
| | OR | |
| MATH 17120 | Calculus I | 4 |

The Mathematics course fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of

credit hours required for graduation. All required Math courses must be passed with a grade of C or better.

Free electives as needed to reach minimum 120 graduation hours

Data Sciences and Informatics Comprehensive Major-Computer Science Emphasis, 73 hours: B.S.—No Minor Required

CIP: 110802

Students choosing a Data Sciences and Informatics - Computer Science major must attain at least a cumulative 2.0 GPA and earn a minimum grade of C in all School of Computer Science and Information Systems courses.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Core Requirements for a Major in Data Sciences and Informatics

Required Courses (52 hours)

| | | |
|------------|--|---|
| MATH 17114 | General Statistics✓ | 3 |
| MATH 17120 | Calculus I | 4 |
| MATH 17311 | Linear Algebra | 3 |
| MATH 17316 | Linear Statistical Models I | 3 |
| MATH 17318 | Linear Statistical Models II | 3 |
| MATH 17356 | Data Mining with Applications to Business and Sciences | 3 |
| CSIS 44101 | Foundations of Computing OR | 3 |
| CSIS 44130 | Computers and Information Technology | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44317 | Management Information Systems | 3 |
| CSIS 44413 | Visualization | 3 |
| CSIS 44460 | Database Systems | 3 |
| PHIL 39275 | Professional Ethics✓ | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Note: If ANY courses in the Core Requirements for this major are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

CSIS 44141 has a prerequisite of a grade of C or better in CSIS 44101 or CSIS 44130, both of which are options for the Institutional Requirement for Digital Literacy.

PHIL 39275 fulfills a Northwest Core Humanities Requirement.

ECON 52150 fulfills a Northwest Core Social Science Requirement.

Computer Science

Required Courses (21 hours)

| | | |
|------------|---|---|
| CSIS 44242 | Data Structures | 3 |
| CSIS 44411 | Systems Analysis and Design | 3 |
| CSIS 44418 | Information Technology Project Management | 3 |
| CSIS 44517 | Big Data | 3 |
| CSIS 44520 | Web Mining | 3 |

| | | |
|------------|--|---|
| CSIS 44560 | Advanced Topics in Database Systems | 3 |
| CSIS 44563 | Developing Web Applications and Services | 3 |

Free electives as needed to reach minimum 120 graduation hours

Digital Media Comprehensive Major: 66 hours, B.S.—No Minor Required

CIP: 110801

Students choosing a Digital Media - Computer Science major must attain at least a cumulative 2.0 GPA and earn a minimum grade of C in all School of Computer Science and Information Systems courses.

Computer Science Programming Concentration

This is an interdisciplinary major in conjunction with the Department of Fine and Performing Arts, the School of Computer Science and Information Systems, and the School of Communication and Mass Media. Three concentrations are available for this major: Computer Science Programming (Computer Science and Information Systems), Content Strategy (Communication and Mass Media), and Visual Imaging (Fine and Performing Arts).

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Must include the following:

| | | |
|------------|--------------------------|---|
| CSIS 44101 | Foundations of Computing | 3 |
|------------|--------------------------|---|

Required Core Courses (27 hours)

| | | |
|------------|------------------------------------|---|
| ART 13191 | 2D Design | 3 |
| ART 13292 | Introduction to Digital Art Studio | 3 |
| ART 13294 | Typography | 3 |
| MMED 20120 | Introduction to Mass Media | 3 |
| MMED 20243 | Media Design | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| CSIS 44144 | Web Development I | 3 |
| CSIS 44334 | Web Development II | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Required Courses for Concentration in Computer Science Programming (30 hours):

| | | |
|------------|--|---|
| MATH 17114 | General Statistics✓ | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44242 | Data Structures | 3 |
| CSIS 44296 | Professional Development Seminar | 3 |
| CSIS 44356 | Network Fundamentals | 3 |
| CSIS 44411 | Systems Analysis and Design | 3 |
| CSIS 44413 | Visualization | 3 |
| CSIS 44460 | Database Systems | 3 |
| CSIS 44563 | Developing Web Applications and Services | 3 |

MATH 17114 fulfills a Northwest Core requirement as well as a requirement of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Choose three courses from the following electives (9 hours):

| | | |
|------------|---------------------------------|---|
| CSIS 44345 | Computer Organization | 3 |
| CSIS 44349 | A Survey of Algorithms | 3 |
| CSIS 44351 | Foundations of Game Development | 3 |
| CSIS 44359 | Secure System Administration | 3 |
| CSIS 44382 | Secure Programming | 3 |
| CSIS 44386 | Digital Forensics | 3 |
| CSIS 44425 | Knacktive | 3 |

| | | |
|------------|--|--------|
| CSIS 44440 | Internet of Things | 3 |
| CSIS 44443 | Mobile Computing-iOS | 3 |
| CSIS 44444 | Mobile Computing-Android | 3 |
| CSIS 44451 | Advanced Topics in Mobile Computing | 3 |
| CSIS 44457 | Applied Cryptography | 3 |
| CSIS 44481 | Ethical Hacking | 3 |
| CSIS 44484 | Cyber Risk Management and Incident Response | 3 |
| CSIS 44495 | Internship in Computer Science/Information Systems | 1 to 3 |
| CSIS 44517 | Big Data | 3 |
| CSIS 44520 | Web Mining | 3 |
| CSIS 44525 | Theory and Implementation of Programming Languages | 3 |
| CSIS 44550 | Operating Systems | 3 |
| CSIS 44555 | Network Security | 3 |
| CSIS 44560 | Advanced Topics in Database Systems | 3 |
| CSIS 44561 | Software Engineering Principles | 3 |
| CSIS 44562 | Software Engineering Practice | 3 |
| CSIS 44566 | Machine Learning | 3 |
| CSIS 44599 | Special Projects | 1 to 6 |

NOTE: All required and elective computer science courses must be passed with a grade of C or better.

Free electives as needed to reach minimum 120 graduation hours

Concentration in Content Strategy

see the School of Communication and Mass Media (p. 275)

Concentration in Visual Imaging

see the Department of Fine and Performing Arts (p. 104)

Management Information Systems Comprehensive Major, 75 hours: B.S.—No Minor Required

CIP: 521201

Students choosing a Comprehensive Major in Management Information Systems must attain at least a cumulative 2.0 GPA, complete at least 60 percent of the major from Northwest, and earn a minimum grade of C in all School of Computer Science and Information Systems and Common Professional Component (p. 252) courses. A major field assessment is required of all Senior students majoring in Management Information Systems.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Common Professional Component (48 hours)

Required Courses (18 hours)

| | | |
|------------|---|---|
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44356 | Network Fundamentals | 3 |
| CSIS 44411 | Systems Analysis and Design | 3 |
| CSIS 44418 | Information Technology Project Management | 3 |
| CSIS 44460 | Database Systems | 3 |

Emphasis Areas (9 hours)

Choose one or more of the following emphases:

Cybersecurity Emphasis

This emphasis has an online-only option.

| | | |
|------------|-------------------------------|---|
| CSIS 44181 | Introduction to Cybersecurity | 3 |
| CSIS 44359 | Secure System Administration | 3 |
| CSIS 44386 | Digital Forensics | 3 |

Data Analytics Emphasis

| | | |
|------------|--|---|
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44413 | Visualization | 3 |
| CSIS 44432 | Business Intelligence and Analytics | 3 |

Web Development Emphasis

| | | |
|------------|--|---|
| CSIS 44144 | Web Development I | 3 |
| CSIS 44334 | Web Development II | 3 |
| CSIS 44563 | Developing Web Applications and Services | 3 |

General Management Information Systems Emphasis

Choose 9 hours from the following courses:

| | | |
|------------|--|---|
| CSIS 44144 | Web Development I | 3 |
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44181 | Introduction to Cybersecurity | 3 |
| CSIS 44242 | Data Structures | 3 |
| CSIS 44334 | Web Development II | 3 |
| CSIS 44413 | Visualization | 3 |
| CSIS 44432 | Business Intelligence and Analytics | 3 |
| CSIS 44517 | Big Data | 3 |
| CSIS 44555 | Network Security | 3 |
| CSIS 44560 | Advanced Topics in Database Systems | 3 |
| CSIS 44563 | Developing Web Applications and Services | 3 |

Free electives as needed to reach minimum 120 graduation hours

This program is an ACBSP accredited program.

Accounting Information Systems Minor, 24 hours

CIP: 301601

This is an interdisciplinary minor in conjunction with the School of Computer Science and Information Systems and the Booth School of Business.

Requirements

Required Courses (24 hours)

| | | |
|------------|------------------------------------|---|
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44336 | Spreadsheet Applications | 1 |
| CSIS 44337 | Advanced Spreadsheets and Charting | 1 |
| CSIS 44346 | Database Applications | 1 |
| CSIS 44460 | Database Systems | 3 |
| ACCT 51201 | Accounting I | 3 |
| ACCT 51202 | Accounting II | 3 |
| ACCT 51306 | Intermediate Accounting I | 3 |
| ACCT 51308 | Accounting Information Systems | 3 |

Agricultural Data and Information Systems Minor, 26-27 hours

CIP: 010106

This is an interdisciplinary minor in conjunction with the School of Agricultural Sciences and the School of Computer Science and Information Systems. The minor consists of courses designed to provide students with a broad exposure to agricultural sciences and computer science and information systems disciplines.

Requirements

Required Courses (21 hours)

| | | |
|------------|--|---|
| AGRI 03150 | Animal Science | 4 |
| AGRI 03232 | Crop Production | 3 |
| AGRI 03304 | Farm Management and Record Analysis | 3 |
| AGRI 03440 | Introduction to Precision Agriculture | 3 |
| CSIS 44144 | Web Development I | 3 |
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44336 | Spreadsheet Applications | 1 |
| CSIS 44346 | Database Applications | 1 |

Choose six hours from the following (6 hours):

| | | |
|------------|-------------------------------------|---|
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44181 | Introduction to Cybersecurity | 3 |
| CSIS 44330 | Presentation Graphics | 1 |
| CSIS 44337 | Advanced Spreadsheets and Charting | 1 |
| CSIS 44340 | Digital Media | 1 |
| CSIS 44343 | Digital Technologies | 3 |
| CSIS 44356 | Network Fundamentals | 3 |
| CSIS 44432 | Business Intelligence and Analytics | 3 |

AGRI 03304 has a prerequisite of AGRI 03102 or ECON 52151.

CSIS courses have a prerequisite of CSIS 44101 or CSIS 44130.

No course may count for Agronomy, Animal Science, or Horticulture major and this minor. Students must complete a minimum of 12 hours in Agricultural Sciences and 14 hours in Computers and Information Systems for this minor. Substitution of required courses must be in consultation with advisor.

A three-hour advisor-approved elective may be substituted for Animal Science (AGRI 03150) if Animal Science is required for the students major.

Business Education Minor, 39 hours: B.S.Ed., Secondary Program (Certifies Grades 9-12)—See Professional Education Requirements

CIP: 131303

Requirements

Required Courses (39 hours)

| | | |
|------------|--|---|
| CSIS 44130 | Computers and Information Technology OR | 3 |
| EDCI 62130 | Educational Computing and Technology | 3 |
| CSIS 44320 | Advanced Word Processing | 1 |
| CSIS 44330 | Presentation Graphics | 1 |
| CSIS 44340 | Digital Media | 1 |
| CSIS 44343 | Digital Technologies | 3 |
| CSIS 44410 | Coordination of Cooperative Education | 3 |
| CSIS 44470 | Implementing Business and Marketing Education Programs | 3 |
| ACCT 51201 | Accounting I | 3 |
| ACCT 51202 | Accounting II | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| ECON 52151 | Principles of Microeconomics✓ | 3 |
| FIN 53311 | Business Law I | 3 |
| MGMT 54310 | Business Communication | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Students must take CSIS 44480 Methods of Teaching Business and Marketing as part of their Secondary Education Program Requirements.

This minor, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Business Education grades 9-12.

This minor is available to B.S. candidates but would not certify to teach Business Education, 9-12.

Computer Applications Minor, 24 hours

CIP: 110899

Requirements

Required Courses (18 hours)

| | | |
|------------|--------------------------------------|---|
| CSIS 44101 | Foundations of Computing | 3 |
| | OR | |
| CSIS 44130 | Computers and Information Technology | 3 |
| | OR | |
| EDCI 62130 | Educational Computing and Technology | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44144 | Web Development I | 3 |
| CSIS 44320 | Advanced Word Processing | 1 |
| CSIS 44330 | Presentation Graphics | 1 |
| CSIS 44336 | Spreadsheet Applications | 1 |
| CSIS 44337 | Advanced Spreadsheets and Charting | 1 |
| CSIS 44340 | Digital Media | 1 |
| CSIS 44343 | Digital Technologies | 3 |
| CSIS 44346 | Database Applications | 1 |

Select at least six hours from the following electives (6 hours):

| | | |
|------------|--|---|
| CSIS 44181 | Introduction to Cybersecurity | 3 |
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44334 | Web Development II | 3 |
| CSIS 44356 | Network Fundamentals | 3 |

NOTE: Students with a Comprehensive Major in Business Technology are not permitted to minor in Computer Applications.

Cybersecurity Minor, 24 hours

CIP: 111003

Requirements

Required Courses (12 hours)

| | | |
|------------|----------------------------------|---|
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44296 | Professional Development Seminar | 3 |
| CSIS 44181 | Introduction to Cybersecurity | 3 |

Choose twelve hours from the following options (12 hours):

| | | |
|------------|---|---|
| CSIS 44242 | Data Structures | 3 |
| CSIS 44382 | Secure Programming | 3 |
| CSIS 44359 | Secure System Administration | 3 |
| CSIS 44386 | Digital Forensics | 3 |
| CSIS 44481 | Ethical Hacking | 3 |
| CSIS 44484 | Cyber Risk Management and Incident Response | 3 |
| CSIS 44356 | Network Fundamentals | 3 |

NOTE:

- Secure Programming requires Data Structures

- Ethical Hacking requires Secure Programming
- Cyber Risk Management and Incident Response requires Digital Forensics

Students must earn a grade of C or better in each of the Computer Science courses in this minor.

Computer Science Minor, 21 hours

CIP: 110101

Requirements

Required Courses (12 hours)

| | | |
|------------|-------------------------|---|
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44242 | Data Structures | 3 |
| CSIS 44345 | Computer Organization | 3 |

NOTE: CSIS 44345 has a prerequisite of one semester of chemistry, physics, or physical sciences. Students electing to take this minor should choose their Northwest Core science courses to satisfy these prerequisites.

NOTE: Grade Requirement: Students must earn a grade of C or better in each of the Computer Science courses in this minor.

Choose at least nine hours from the following electives (9 hours):

| | | |
|------------|--|--------|
| CSIS 44149 | Scientific Computing | 3 |
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44181 | Introduction to Cybersecurity | 3 |
| CSIS 44349 | A Survey of Algorithms | 3 |
| CSIS 44356 | Network Fundamentals | 3 |
| CSIS 44359 | Secure System Administration | 3 |
| CSIS 44382 | Secure Programming | 3 |
| CSIS 44386 | Digital Forensics | 3 |
| CSIS 44413 | Visualization | 3 |
| CSIS 44443 | Mobile Computing-iOS | 3 |
| CSIS 44444 | Mobile Computing-Android | 3 |
| CSIS 44451 | Advanced Topics in Mobile Computing | 3 |
| CSIS 44457 | Applied Cryptography | 3 |
| CSIS 44460 | Database Systems | 3 |
| CSIS 44481 | Ethical Hacking | 3 |
| CSIS 44484 | Cyber Risk Management and Incident Response | 3 |
| CSIS 44517 | Big Data | 3 |
| CSIS 44520 | Web Mining | 3 |
| CSIS 44525 | Theory and Implementation of Programming Languages | 3 |
| CSIS 44550 | Operating Systems | 3 |
| CSIS 44555 | Network Security | 3 |
| CSIS 44560 | Advanced Topics in Database Systems | 3 |
| CSIS 44561 | Software Engineering Principles | 3 |
| CSIS 44563 | Developing Web Applications and Services | 3 |
| CSIS 44566 | Machine Learning | 3 |
| CSIS 44599 | Special Projects | 1 to 6 |

At most one of CSIS 44149, CSIS 44155, or CSIS 44181 can count towards the 9 hours of electives.

Data Management Minor, 24 hours

CIP: 110802

Requirements

Required Courses (15 hours)

| | | |
|------------|------------------------|---|
| CSIS 44141 | Computer Programming I | 3 |
|------------|------------------------|---|

| | | |
|------------|-------------------------------------|---|
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44336 | Spreadsheet Applications | 1 |
| CSIS 44337 | Advanced Spreadsheets and Charting | 1 |
| CSIS 44346 | Database Applications | 1 |
| CSIS 44460 | Database Systems | 3 |
| CSIS 44560 | Advanced Topics in Database Systems | 3 |

Choose nine hours of electives (9 hours):

| | | |
|------------|--|---|
| CSIS 44242 | Data Structures | 3 |
| CSIS 44411 | Systems Analysis and Design | 3 |
| CSIS 44517 | Big Data | 3 |
| CSIS 44561 | Software Engineering Principles | 3 |
| CSIS 44563 | Developing Web Applications and Services | 3 |
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |

NOTES: 1) CSIS 44411 has a prerequisite of CSIS 44317. 2) Grade Requirement: Students must earn a grade of C or better in each of the Computer Science courses in the 24-hour minor.

Digital Media Minor, 24 hours**CIP: 110801**

This is an interdisciplinary minor in conjunction with the Department of Fine and Performing Arts, the School of Computer Science and Information Systems, and the School of Communication and Mass Media.

Requirements**Institutional Requirements (4 hours)**

Must include the following:

| | | |
|------------|--------------------------------------|---|
| CSIS 44130 | Computers and Information Technology | 3 |
|------------|--------------------------------------|---|

Required Courses (18 hours)

| | | |
|------------|------------------------------------|---|
| ART 13191 | 2D Design | 3 |
| ART 13292 | Introduction to Digital Art Studio | 3 |
| MMED 20243 | Media Design | 3 |
| MMED 20303 | Introduction to Web Publishing | 3 |
| CSIS 44144 | Web Development I | 3 |
| CSIS 44334 | Web Development II | 3 |

Electives (6 hours):

(Select any six hours from the following)

| | | |
|------------|------------------------|---|
| ART 13120 | Drawing✓ | 3 |
| ART 13207 | Digital Photography | 3 |
| MMED 20334 | UX and Analytics | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44335 | Script Programming | 3 |

Health & Information Systems Minor, 24 hours**CIP: 512706**

This is an interdisciplinary minor in conjunction with the School of Computer Science and Information Systems and the School of Health Science and Wellness. The minor consists of courses designed to provide students with a broad exposure to health science and computer science and information systems disciplines.

Requirements**Required Courses (18 hours)**

| | | |
|------------|--------------------------------|---|
| CSIS 44144 | Web Development I | 3 |
| CSIS 44317 | Management Information Systems | 3 |
| CSIS 44343 | Digital Technologies | 3 |

| | | |
|------------|------------------|---|
| HPER 22114 | Wellness | 3 |
| HPER 22550 | Community Health | 3 |
| HPER 22552 | Health Promotion | 3 |

Electives (6 hours)

Select 6 hours from the following courses:

| | | |
|------------|--|---|
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44320 | Advanced Word Processing | 1 |
| CSIS 44330 | Presentation Graphics | 1 |
| CSIS 44340 | Digital Media | 1 |
| CSIS 44336 | Spreadsheet Applications | 1 |
| CSIS 44337 | Advanced Spreadsheets and Charting | 1 |
| CSIS 44346 | Database Applications | 1 |
| CSIS 44432 | Business Intelligence and Analytics | 3 |
| CSIS 44411 | Systems Analysis and Design | 3 |
| HPER 22254 | Anatomy and Physiology | 3 |
| HPER 22541 | Human Pathophysiology | 3 |
| HPER 22555 | Intervention and Strategies for Health Behavior Change | 3 |

Marketing Education Minor, 36 hours

CIP: 131310

Requirements**Required Courses (30 hours)**

| | | |
|------------|--|---|
| ACCT 51201 | Accounting I | 3 |
| ACCT 51202 | Accounting II | 3 |
| ECON 52150 | Principles of Macroeconomics✓ | 3 |
| ECON 52151 | Principles of Microeconomics✓ | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |
| MKTG 55438 | International Business | 3 |
| CSIS 44410 | Coordination of Cooperative Education | 3 |
| | CSIS/Business Advisor Approved Electives | 6 |

Choose six hours from the following (6 hours):

| | | |
|------------|----------------------------|---|
| MKTG 55331 | Retailing | 3 |
| MKTG 55332 | Promotion | 3 |
| MKTG 55333 | Consumer Behavior | 3 |
| MKTG 55430 | Sales and Sales Management | 3 |
| MKTG 55431 | Logistics Management | 3 |

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take CSIS 44480 Methods of Teaching Business and Marketing as part of their professional education requirements.

This minor, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Marketing Education grades 9-12.

This minor is available to B.S. candidates but would not certify to teach Marketing Education, 9-12.

Middle School Endorsement Certification—Business Education, 24 hours, Grades 5-9

CIP: 131303

Requirements

Required Courses (24 hours)

| | | |
|------------|--|---|
| CSIS 44130 | Computers and Information Technology OR | 3 |
| EDCI 62130 | Educational Computing and Technology | 3 |
| CSIS 44320 | Advanced Word Processing | 1 |
| CSIS 44330 | Presentation Graphics | 1 |
| CSIS 44336 | Spreadsheet Applications | 1 |
| CSIS 44337 | Advanced Spreadsheets and Charting | 1 |
| CSIS 44340 | Digital Media | 1 |
| CSIS 44343 | Digital Technologies | 3 |
| CSIS 44346 | Database Applications | 1 |
| ACCT 51201 | Accounting I | 3 |
| ECON 52130 | Survey of Economics✓ | 3 |
| FIN 53120 | Personal Money Management | 3 |
| FIN 53311 | Business Law I | 3 |

Students must take CSIS 44480 Methods of Teaching Business and Marketing as part of their Middle School Education Program Requirements.

This endorsement, when completed under the B.S.Ed. Middle School Program, will meet Missouri teacher certification standards for Business Education grades 5-9. Primary advisement for Middle School Certification is provided by the School of Education. Please also seek a secondary advisor from the content area.

Systems Management Minor, 24 hours

CIP: 521201

Requirements

Required Courses (21 hours)

| | | |
|------------|---|---|
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44317 | Management Information Systems | 3 |
| CSIS 44411 | Systems Analysis and Design OR | 3 |
| CSIS 44561 | Software Engineering Principles | 3 |
| CSIS 44418 | Information Technology Project Management | 3 |
| ACCT 51201 | Accounting I | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |

Electives (3 hours)

Select 3 hours from the following courses:

| | | |
|------------|-------------------------------------|---|
| CSIS 44241 | Computer Programming II | 3 |
| CSIS 44413 | Visualization | 3 |
| CSIS 44432 | Business Intelligence and Analytics | 3 |

Note: Students with a comprehensive major in Management Information Systems are not permitted to minor in Systems Management.

School of Education

“Teaching is our passion.....Learning is our profession.”

Dean: Timothy Wall, Director, Teacher Education

Assistant Directors: Nissa Ingraham, David Kiene, Sandy Seipel

Director, Horace Mann School & Leet Center: Laura King

Faculty: Robyn Akins, Kristina Alexander, Jill Baker, Johannah Baugher, Travis Dimmitt, Tina Ellsworth, Shantel Farman, Dan Gordon, Nissa Ingraham, David Kiene, Tamara Lynn, Rebecca Moore, Gregory Rich, Narges Sareh, Cynthia Schairer-Kessler, Sandy Seipel, Ashley Strickland, Linda Gray Smith, Sara Taylor, Tim Wall

Faculty, Horace Mann School: Lori Atkins, Andrea Blackford, Brandy Haughey, Heidi Komorech, Andrea Mason, Gina McNeese, Julie Michaelson, Mary Shields, Michelle Vaught, Sarah Winters

Early Childhood Center Personnel: Erica Buck, Erika Yocom

The School of Education includes the Professional Education Unit; the Horace Mann Laboratory School; and the Phyllis and Richard Leet Center for Children and Families.

The School contributes to all facets of education within the University by providing courses which assist students in fulfillment of the Northwest Core courses; offerings leading to the completion of B.S.Ed. degrees; and elective coursework. The Professional Education Unit offers undergraduate programs in elementary education, early childhood education, middle school education, secondary education, and special education.

The professional preparation programs in the School of Education and the Professional Education Unit are accredited by the Missouri State Board of Education and the Association for Advancing Quality in Educator Preparation (AAQEP).

Information regarding program advisement, requirements, and certification may be obtained from the following people:

| Program | Coordinator |
|---------------------------------|------------------------------|
| Early Childhood Education | Sandy Seipel & Rebecca Moore |
| Elementary Education | Jill Baker |
| Middle School | Linda Gray Smith |
| Secondary Education | Linda Gray Smith |
| Special Education | Shantel Farnan |
| Post-baccalaureate | Dan Gordon |
| Alternative Certification | Dan Gordon |
| Pre-Admission Education Advisor | Ryan Talkington |

Vision Statement

The vision of the School of Education is to provide highly competent professionals who are lifelong learners, reflective thinkers and ethical leaders exemplifying the ideas of literacy, scholarship, and social justice in a diverse and ever-changing world.

Mission Statement

The mission of the School of Education is to create learning communities in which students and professionals develop partnerships with families, communities, schools, businesses, and other public agencies to assist students in acquiring knowledge, skills, and values critical to a democratic society.

The goals of the School are to:

- Provide students a strong knowledge base in general education.
- Provide opportunities for specialization through majors and minors.
- Provide opportunities to develop values and ethics within the academic discipline.
- Provide opportunities for students and faculty to collaborate in research.
- Provide services to the community and surrounding region.
- Provide opportunities for continuing and graduate education.

Vision Statement for the Professional Education Unit

The Northwest Missouri State University Professional Education Unit prepares highly effective, ethical, professional educators who possess the knowledge, skills, and professional dispositions in order to embrace the responsibility for the learning of all children in a diverse and dynamic society.

Mission Statement for the Professional Education Unit

The Northwest Missouri State University Professional Education Unit will be a catalyst for education excellence by preparing PreK-12 professional educators who apply best practices to positively impact learning.

Our Pledge:

Based upon our vision and mission, the Northwest Missouri State University Professional Education Unit serves education candidates as our primary focus in order to develop professionals who:

- Possess the requisite level of knowledge, skills, and professional dispositions;
- Model integrity and professionalism;
- Promote social justice, the inherent worth of each individual, and the ideals of a democratic society;
- Facilitate an educational environment that embraces diversity;
- Collaborate and build partnerships with educational professionals, students, parents, communities, and other social agencies; and
- Use technology in a meaningful, purposeful, and authentic manner.

Continuous Improvement and Program Quality

The Professional Educational Unit (PEU) organizational structure is designed to maximize input from and empowerment of the entire education community. Cross-functional teams of college faculty, alumni, current PK-12 educators, and students function to ensure continuous study and improvement of programs and processes around issues of importance to the college, such as technology integration, a curriculum representative of our nation's diversity and consistent evaluation of assessment data on program performance.

One source of input for program improvement is gathered from Comment Cards available online at the Northwest website for use in bringing issues of importance to the attention of the appropriate administrator. Students may use these cards to share comments, suggestions or complaints regarding an office, department, program or activity in the University community. All Comment Cards relating to teacher preparation are compiled for reporting of issues and opportunities for program or process improvements to the Council on Teacher Education.

Teacher Education Resources

| | |
|---|---|
| Professional Education | Joseph Haughey, Assistant Director Teacher Education |
| Educational Field Experiences | Gregory Rich, Director |
| Educational Field Experiences | Cathy Barr, Assistant Coordinator for Clinical Field Experience |
| Horace Mann School | Laura King, Principal/Director |
| Teacher Certification | Kim Hullinger, Certification Officer |
| Teacher Education Student Services (TESS) | Amy Wilson, Coordinator |
| Alternative Certification | Kim Hullinger, Coordinator |
| Phyllis and Richard Leet Center for Children and Families | Laura King, Director |
| Professional Education Unit Assessment | Michael McBride, Associate Director, Accreditation & Assessment |
| Regional Professional Development Center | Jennee Barnes-Gregory, Director |

Requirements

Changes to programs during this catalog cycle may be made related to changes in certification requirements and/or program changes approved by the Missouri Department of Elementary and Secondary Education.

Teacher Education General Information

Admittance to Teacher Education

Requirements for admission into the professional education program can be found in the Teacher Education Handbook.

Completion of this curriculum, other University requirements, and an overall grade point average identified in the Professional Education Handbook on a 4.00 scale qualifies the student to receive a Bachelor of Science in Education degree.

The number of hours in the major, minor, and elective categories may vary depending on the major and minor selected. Care should be exercised in choosing courses to assure a minimum of 40 semester hours of senior college work in courses numbered above 300.

All degrees in education are subject to state requirements which may change at any time due to action of the State Board of Education.

Teacher Education Guidance Committee

This committee considers those professional education students who have deficiencies which are so serious that their success in the field of teaching would be in jeopardy. Such deficiencies may or may not relate to quantitative criteria.

The guidance committee is a standing subcommittee of the Council on Teacher Education. Although the Council on Teacher Education has overall reviewing authority, this subcommittee, known as the Teacher Education Guidance Committee, develops and implements the necessary procedures and is responsible for issues affecting teacher candidates after admission to the Professional Education Program. Committee members include the Assistant Director of

Teacher Education, Clinical Field Experience Coordinator, Assistant Coordinator of Clinical Field Experiences, Education Compliance Specialist/Certification Officer, TESS Coordinator, Undergraduate Coordinator Representative, Chair of the Council on Teacher Education (COTE), and a member designated by the Director of Teacher Education. The candidate's academic advisor will be invited to attend meetings in a non-voting role to serve as an advocate and to provide support for the candidate.

Any University faculty member may refer a student to the Teacher Education Guidance Committee. The chairperson of the Council on Teacher Education will then structure the committee and arrange a meeting to which the student may be called to appear. The chairperson will then report the decision of the committee to the student.

The committee will take one of four courses of action in regard to a student in question:

1. No action; the student would continue in the Teacher Education Program.
2. Recommend remedial actions that the student must take, to be followed by further screening.
3. Recommend remedial action and suspension from the Teacher Education Program until the student has met said requirements of the committee.
4. Recommend that the student be terminated from the Teacher Education Program, in which case he or she would not be permitted to complete any program from this University leading to educator certification.

All students will have the right to appeal in person regarding decisions rendered by the Teacher Education Guidance Committee. The purpose of the appeal is not to provide a secondary hearing of a case already heard by the committee, but rather to ensure that students have been able to present all information pertaining to their case and that proper protocols have been followed. Students should provide a basis for their appeal by submitting either new information pertaining to their case, or evidence of error or bias on the part of the previous committee. The students must initiate the appeals process by contacting the Office of the Dean of the School of Education.

Directed Teaching

Prospective student teachers must attend an orientation session and make application for student teaching with the Director of Educational Field Experiences in the semester immediately prior to the semester in which student teaching is to be completed. The Director of Educational Field Experiences will establish a specific date for application each semester. At the time of application, the student must secure the approval of the following persons: Registrar, major advisor (and minor advisor when appropriate), and TESS coordinator. An overall GPA and official admittance to the teacher education program are required (see "Admittance to Teacher Education" above). A minimum GPA is also required for all courses taken at Northwest, all courses taken in each of the applicant's subject areas and all courses in the professional education sequence. Reference minimum GPA in the Professional Education Handbook.

Secondary and elementary-secondary program majors are required to successfully complete EDCI 62353; EDUC 61520, and EDUC 61461 in order to maintain eligibility to student teach. Elementary and Special Education majors will participate in a residency practicum semester followed by a student teaching semester. Secondary and Elementary/Secondary majors will student teach for one semester. Students may not have a choice of time or location for the directed teaching experience. Students may suggest a location, however, final placement resides with the Director of Field Experiences.

Graduation Requirements

Teacher Education candidates must demonstrate their competence across the state's MoSPE standards for teacher educators. This is accomplished through authentic assessments designated in the Professional Education Unit (PEU) assessment system.

Certification Exit Requirements

In addition to satisfying the respective program requirements, each candidate seeking initial certification must achieve the minimum GPA requirement set by the State Board of Education to include: A minimum overall GPA; a minimum GPA in each of the certificate subject areas; and a minimum overall GPA and no grade lower than a “C” in professional education courses, i.e., those courses defined as foundations for teaching, teaching methods and techniques, and clinical experiences. Each candidate must also achieve a satisfactory score on the appropriate Content Exam. Reference minimum GPA in the Professional Education Handbook.

Certification

Students admitted to the Professional Education Program are subject to all prevailing academic and social regulations and policies of the University in addition to those specified for the various certificate program sequences. The Teacher Education candidate is also subject to any Missouri legislative action or State Board of Education policy that may become effective during the lifetime of this catalog. The candidate is responsible for meeting the requirements of endorsement area(s) at the time of application for an initial Missouri teaching certificate. In addition to the certificate requirements, the student must satisfy the degree requirements of the major department. The teacher education advisor in each department will guide the student in meeting all requirements. Additional information about certification is in the Professional Education Handbook and on the Northwest website at <http://www.nwmissouri.edu/education/peu/certification/index.htm>. For specific information regarding teacher certification, contact the Teacher Certification Officer.

The Missouri Department of Elementary and Secondary Education-Office of Educator Quality is working with a representative stakeholder group to redesign the standards for educator preparation including certification requirements. These changes and the implementation schedule will be communicated to students through individual advising sessions, meetings, and/or other university communications. If there are any questions or concerns, please contact the Missouri Department of Educator Preparation in the Office of Educator Quality (eqprep@dese.mo.gov).

Post-Degree Certification

Individuals who hold baccalaureate degrees from regionally-accredited institutions may elect to pursue their initial teaching certificate by completing our teacher preparation program. Candidates are subject to the requirements as provided in this catalog. Candidates are required to fulfill all the general education requirements for certification as designated by the state of Missouri.

Title II Reporting

Northwest annually reports to the United States Department of Education on the performance of its Teacher Education graduates. The report is public information and is contained in its entirety on the following website: <http://www.nwmissouri.edu/education/peu/reports.htm>.

Professional Education Unit

Education: Curriculum and Instruction / 62

Early Childhood Education Major, 76 hours: B.S.Ed., Certifies Birth through Grade 3

CIP: 131210

The early childhood education program prepares students to successfully complete the licensure requirements of the program and earn their teaching license with an endorsement in early childhood education. This license enables students to teach children birth through the

third grade in multiple settings including public and non-public schools, homes, and other community settings.

This program offers a strengths-based approach in working with all children including those with special needs and rights. Along with coursework that is focused on child-centered and culturally sensitive practices, students participate in embedded field experiences in the Phyllis and Richard Leet Center and Horace Mann Laboratory School and partnering community settings. Combined, these learning experiences provide the basis from which theories about development, learning, and curriculum come to life for our students.

Individually and as a cohort of learners, students learn an integrated approach to teaching and learning through constructivist curriculum practices and strategies that offer meaningful learning within diverse systems and settings. Opportunities to learn together as critical colleagues who further each other's reflective thinking skills prepares students for professional collaboration in their future careers.

The Early Childhood major is comprised of clusters and modules that develop and assess teacher candidate competencies in teaching and reflective practices. The courses/modules integrate the quality indicators from the Missouri Teacher Standards, standards in special education required of all teacher candidates, standards related to working with diverse student populations and in diverse school settings, including working with ELL students, and competencies related to classroom management including student motivation and engagement. All students interested in teaching in a self-contained Kindergarten classroom in Missouri must complete the Major in Early Childhood Education.

Required Courses

The Northwest Core (44-47 hours)

See Professional Education Handbook for which of the Northwest Core classes require a C or better.

Institutional Requirements (4 hours)

Recommended:

| | | |
|------------|--------------------------------------|---|
| EDCI 62130 | Educational Computing and Technology | 3 |
|------------|--------------------------------------|---|

Collateral Courses (23 hours)

| | | |
|------------|------------------|---|
| BIOL 04102 | General Biology✓ | 3 |
|------------|------------------|---|

| | | |
|------------|-----------------------------|---|
| BIOL 04103 | General Biology Laboratory✓ | 1 |
|------------|-----------------------------|---|

| | | |
|-----------|-------------------------------------|---|
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
|-----------|-------------------------------------|---|

| | | |
|------------|------------------------|---|
| PSYC 08299 | Educational Psychology | 3 |
|------------|------------------------|---|

| | | |
|------------|----------------------------|---|
| GEOG 32101 | Introduction to Geography✓ | 3 |
|------------|----------------------------|---|

| | | |
|------------|-----------------------------|---|
| MATH 17171 | Fundamentals of Mathematics | 3 |
|------------|-----------------------------|---|

| | | |
|-----------|-------------------------|---|
| MUS 19201 | The Enjoyment of Music✓ | 3 |
|-----------|-------------------------|---|

OR

| | | |
|-----------|--------------------|---|
| MUS 19202 | Jazz Appreciation✓ | 3 |
|-----------|--------------------|---|

OR

| | | |
|-----------|-------------------------|---|
| MUS 19222 | American Popular Music✓ | 3 |
|-----------|-------------------------|---|

OR

| | | |
|-----------|-------------------|---|
| ART 13102 | Art Appreciation✓ | 3 |
|-----------|-------------------|---|

OR

| | | |
|------------|-----------------------|---|
| THEA 43101 | Theatre Appreciation✓ | 3 |
|------------|-----------------------|---|

| | | |
|------------|---|---|
| PHSC 40102 | The Physical Sciences: Integrated Approach✓ | 3 |
|------------|---|---|

| | | |
|------------|---|---|
| PHSC 40103 | Physical Science Laboratory: Integrating Inquiry✓ | 1 |
|------------|---|---|

These courses fulfill Northwest Core requirements as well as a requirements of the major, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Must achieve a grade of C or better in PSYC 08299, MATH 17171, and COM 29102.

Degree Requirement (3 hours)

| | | |
|------------|-------------------------------|---|
| EDUC 61569 | Multiculturalism in Education | 3 |
|------------|-------------------------------|---|

The degree requirement for Multiculturalism in Education is separate from the Humanities requirement in The Northwest Core.

Professional Requirements**Professional Education and Beginning Clinical Experiences Phase I (12 hours)**

See Professional Education Handbook for which of the courses below require a C or better.

| | | |
|------------|--|---|
| EDCI 62107 | Ecology and Developmental Foundations of Education | 2 |
| EDCI 62108 | Introduction to Curriculum, Instruction and Assessment | 2 |
| EDCI 62109 | Positive Communication in an Inclusive Classroom | 2 |
| EDCI 62113 | Professional Learning Community I | 1 |
| EDCI 62116 | Professional Learning Community II | 1 |
| EDCI 62119 | Professional Learning Community III | 1 |
| PSYC 08312 | Child Psychology OR | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |

Professional Education and Mid-Level Clinical Experiences Phase II (42 hours)

| | | |
|------------|---|--------|
| EDCI 62226 | Early Childhood Literacy | 3 |
| EDCI 62231 | Early Childhood Professional Learning Community IV | 1 |
| EDCI 62232 | Early Childhood Professional Learning Community V | 1 |
| EDCI 62302 | Emotion and Language-Centered Curriculum for Infants and Toddlers | 3 |
| EDCI 62303 | Observation and Assessment in Infant Toddler Settings | 3 |
| EDCI 62304 | Field Experiences in Infant Toddler Settings | 2 |
| EDCI 62322 | Literacy Assessment and Intervention: Theory and Techniques | 1 to 2 |
| EDCI 62326 | Early Childhood Professional Learning Community VI | 1 |
| EDCI 62330 | Health, Nutrition, and Safety of Young Children | 2 |
| EDCI 62404 | Practicum in Preschool | 2 |
| EDCI 62405 | Practicum in Kindergarten | 2 |
| EDCI 62421 | Constructivist Philosophy, Integrated Curriculum, and Curriculum Approaches in Early Childhood | 3 |
| EDCI 62426 | Integrated Curriculum and Authentic Assessment for Evidence-Based Decision Making in Grades 1-3 | 3 |
| EDCI 62435 | Practicum in Grades 1-3 | 2 |
| EDCI 62455 | Family and Community Resources in Early Childhood | 2 |
| EDCI 62554 | Trauma Informed Practices and Responsive Pedagogy | 3 |
| MATH 17226 | Math in the Early Elementary School | 2 |
| PSYC 08405 | Parenthood Education | 3 |
| SCED 28225 | Science in the Elementary Classroom OR | 2 |
| SCED 28226 | Science in the Elementary School | 2 |

Capstone Courses and Culminating Clinical Experiences Phase III (22 hours)

| | | |
|------------|--|---|
| EDCI 62441 | Early Childhood Leadership and Program Management | 3 |
| EDCI 62442 | Early Childhood Professional Capstone | 3 |
| EDCI 62443 | Early Childhood Professional Learning Community VII | 1 |
| EDCI 62445 | Early Childhood Professional Learning Community VIII | 1 |
| EDCI 62203 | Pedagogy of Reggio Emilia, Italy OR | 2 |
| EDCI 62472 | Capstone Practicum Experience | 2 |

EDUC 61473 Directed Teaching Early Childhood 1 to 12

Note: Directed teaching from other certification or other degrees may count for up to 6 hours of the 12 required hours.

Free electives as needed to reach minimum 120 graduation hours**Education B.S., Elementary**

Completion of one of the following curricula, other University requirements and an overall grade point average identified in the Professional Education Handbook on a 4.00 scale qualifies the student to receive a Bachelor of Science in Education degree.

The number of hours in the major, minor and elective categories may vary depending on the major and minor selected. Care should be exercised in choosing courses to assure a minimum of 40 semester hours in courses numbered above 300.

All degrees in education are subject to state requirements which may change at any time due to action of the State Board of Education.

B.S.Ed. Degree Requirements, Elementary Program**The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|------------|---|---|
| PSYC 08299 | Educational Psychology | 3 |
| MATH 17171 | Fundamentals of Mathematics | 3 |
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| BIOL 04102 | General Biology✓ | 3 |
| BIOL 04103 | General Biology Laboratory✓ | 1 |
| PHSC 40102 | The Physical Sciences: Integrated Approach✓ | 3 |
| PHSC 40103 | Physical Science Laboratory: Integrating Inquiry✓ | 1 |
| GEOG 32101 | Introduction to Geography✓ | 3 |
| ART 13102 | Art Appreciation✓ OR | 3 |
| MUS 19201 | The Enjoyment of Music✓ OR | 3 |
| MUS 19202 | Jazz Appreciation✓ OR | 3 |
| MUS 19222 | American Popular Music✓ OR | 3 |
| THEA 43101 | Theatre Appreciation✓ | 3 |

(must achieve grade of C or better in PSYC 08299, MATH 17171, and COM 29102)

BIOL 04102, BIOL 04103, PHSC 40102 and PHSC 40103 are prerequisites for SCED 28226 Science in the Elementary School. MATH 17171 is a prerequisite for MATH 17371.

Institutional Requirements (4 hours)

Recommended:

| | | |
|------------|--------------------------------------|---|
| EDCI 62130 | Educational Computing and Technology | 3 |
|------------|--------------------------------------|---|

Degree Requirements (3 hours)

| | | |
|------------|-------------------------------|---|
| EDUC 61569 | Multiculturalism in Education | 3 |
|------------|-------------------------------|---|

Elementary Education Major, 65 hours: B.S.Ed., Elementary Program (Certifies Grades 1-6)

CIP: 131202

Required Courses**The Northwest Core (44-47 hours)**

See Professional Education Handbook for which of the Northwest Core classes require a C or better.

Institutional Requirements (4 hours)

Professional Requirements

Professional Education Phase I (12 hours)

See Professional Education Handbook for which of the above courses require a C or better.

| | | |
|------------|--|---|
| EDCI 62107 | Ecology and Developmental Foundations of Education | 2 |
| EDCI 62108 | Introduction to Curriculum, Instruction and Assessment | 2 |
| EDCI 62109 | Positive Communication in an Inclusive Classroom | 2 |
| EDCI 62113 | Professional Learning Community I | 1 |
| EDCI 62116 | Professional Learning Community II | 1 |
| EDCI 62119 | Professional Learning Community III | 1 |
| PSYC 08333 | Developmental Psychology✓ | 3 |

Professional Education Phase II (28 hours)

| | | |
|------------|--|--------|
| EDCI 62220 | Designing Integrated Curriculum Part I | 1 |
| EDCI 62221 | Literacy in the Elementary School | 3 |
| EDCI 62222 | Social Studies in the Elementary School | 2 |
| EDCI 62223 | Delivering Integrated Curriculum Part I | 1 |
| EDCI 62224 | Professional Learning Community IV | 1 |
| EDCI 62225 | Designing Integrated Curriculum Part II | 1 |
| EDCI 62228 | Delivering Integrated Curriculum Part II | 1 |
| EDCI 62229 | Professional Learning Community V | 1 |
| EDCI 62322 | Literacy Assessment and Intervention: Theory and Techniques | 1 to 2 |
| EDCI 62324 | Implementing/Practicum I | 2 |
| EDCI 62331 | Designing Intervention and Assessment | 1 |
| EDCI 62332 | Professional Learning Community VI | 1 |
| EDCI 62342 | Implementing/Practicum II | 2 |
| MATH 17227 | Math in the Elementary School | 2 |
| MATH 17323 | Math Assessment and Intervention: Theories and Techniques | 2 |
| MATH 17371 | Algebra and Geometry for Elementary and Middle School Teachers | 3 |
| SCED 28226 | Science in the Elementary School | 2 |

Field and Clinical Experiences Phase III (25 hours)

| | | |
|------------|--|---------|
| EDCI 62431 | Residency Practicum | 1 to 8 |
| EDCI 62432 | Professional Capstone | 3 |
| EDCI 62433 | Professional Learning Community VII | 1 |
| EDCI 62434 | Professional Learning Community VIII | 1 |
| EDUC 61471 | Directed Teaching in the Elementary School | 1 to 12 |

Note: Directed teaching from other certification or other degrees may count for up to 6 of the 12 required hours.

Free electives as needed to reach minimum 120 graduation hours

Early Childhood Special Education Certification, 9 hours: (Certifies Birth through Grade 3)

CIP: 131099

This program is designed for the Early Childhood Education major who desires to teach children with special needs and rights from birth through grade 3.

Requirements

Early Childhood Special Education Requirements (6 hours)

| | | |
|------------|---|--------|
| EDCI 62542 | Curriculum and Methods in Early Childhood Special Education | 3 |
| EDUC 61480 | Directed Teaching in Early Childhood Special Education | 1 to 6 |

Early Childhood Education Requirements (76)

See B.S.Ed. Early Childhood (p. 303)

Middle School Major, 40-42 hours: B.S.Ed. degree–Certifiable Subject Field Required

CIP: 131203

This major meets Grades 5-9 certification (subject area requirements for Grades 5-9) in Missouri when one minor, concentration, or endorsement is completed by the student. Students must meet the general studies Missouri certification requirements.

Required Courses

The Northwest Core (44-47 hours)

See Professional Education Handbook for which of the Northwest Core classes require a C or better.

Must include the following:

| | | |
|------------|-------------------------------------|---|
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| PSYC 08299 | Educational Psychology | 3 |

Must achieve grade of C or better in both.

Institutional Requirements (4 hours)

Recommended:

| | | |
|------------|--------------------------------------|---|
| EDCI 62130 | Educational Computing and Technology | 3 |
|------------|--------------------------------------|---|

Degree Requirement (3 hours)

| | | |
|------------|-------------------------------|---|
| EDUC 61569 | Multiculturalism in Education | 3 |
|------------|-------------------------------|---|

The degree requirement for Multiculturalism in Education is separate from the Humanities requirement of The Northwest Core.

Professional Requirements

Professional Education Phase I (9 hours)

See Professional Education Handbook for which of the courses below require a C or better.

| | | |
|------------|--|---|
| EDCI 62107 | Ecology and Developmental Foundations of Education | 2 |
| EDCI 62108 | Introduction to Curriculum, Instruction and Assessment | 2 |
| EDCI 62109 | Positive Communication in an Inclusive Classroom | 2 |
| EDCI 62113 | Professional Learning Community I | 1 |
| EDCI 62116 | Professional Learning Community II | 1 |
| EDCI 62119 | Professional Learning Community III | 1 |

Professional Education Phase II (14-15 hours)

| | | |
|------------|--|--------|
| EDUC 61301 | Developmental Foundations of Adolescent and Content Literacy | 2 |
| EDUC 61302 | Professional Learning Community Middle and Secondary IV | 1 |
| EDUC 61310 | Classroom and Behavior Management Strategies | 1 |
| EDUC 61311 | Designing Integrated Middle School and Secondary Curriculum | 1 |
| EDUC 61312 | Professional Learning Community for Middle School and Secondary V | 1 |
| EDUC 61324 | Intervention and Assessment: Literacy, Special Populations, and English Language | 2 |
| EDUC 61325 | Professional Learning Community VI | 1 |
| EDUC 61570 | The Middle School | 3 |
| | Middle School Content Methods | 2 to 3 |

Professional Education Phase III (17 hours)

| | | |
|------------|--|---------|
| EDUC 61430 | Middle School Practicum | 1 |
| EDUC 61432 | Professional Education Capstone | 2 |
| EDUC 61474 | Directed Teaching in the Middle School | 1 to 18 |

PSYC 08317 Psychology of Early Adolescence 2
 EDUC 61474 must be taken for 12 credit hours.

Area of Concentration/Endorsement/Minor

One area to be chosen from:

Language Arts, Mathematics, Science, Social Science, Agriculture Education, Business Education, and Speech/Theatre (24 credit hours minimum).

Note: Based on the Department of Elementary and Secondary Education certification requirements, there may be variances in subject area curriculum requirements.

Free electives as needed to reach minimum 120 graduation hours

Language Arts Concentrations for Middle School Major

CIP: 131305

Requirements

Required Courses (18 hours)

(Meets requirements of Major in Middle School)

| | | |
|------------|---|---|
| COM 29325 | Listening Behavior and Skills | 3 |
| ENGL 10321 | Teaching Reading in Middle and Secondary English Classrooms | 3 |
| ENGL 10322 | Introduction to the Teaching of Writing | 3 |
| ENGL 10404 | Schoolhouse Grammars and Pedagogy | 3 |
| ENGL 10590 | Young Adult Literature | 3 |
| THEA 43460 | Creative Dramatics | 3 |

Electives (6 hours)

Choose 2 from the following:

| | | |
|------------|---|---|
| ENGL 10210 | Introduction to Creative Writing | 3 |
| ENGL 10224 | Multiethnic Literature of the United States | 3 |
| ENGL 10233 | American Literature: Beginnings to 1865✓ | 3 |
| ENGL 10234 | American Literature: 1865 to the Present✓ | 3 |
| ENGL 10245 | English Literature: Beowulf through the 18th Century✓ | 3 |
| ENGL 10246 | English Literature: Romanticism to the Present✓ | 3 |
| ENGL 10372 | Introduction to Shakespeare | 3 |

Professional Education Requirements

See Middle School Education Program Requirements (p. 308)

Students must take ENGL 10580 Methods in Secondary School English as part of their professional education requirements.

This concentration, when completed under the B.S.Ed. Middle School Program, will meet Missouri teacher certification standards for Language Arts grades 5-9. Primary advisement for Middle School Certification is provided by the School of Education (p. 299). Please also seek a secondary advisor from the content area.

Special Education Major: Cross Categorical (Dual Major with Elementary Education), B.S.Ed. (Certifies Grades K-12)

CIP: 131007

This major must be completed with the elementary education major (p. 306) and the following special education requirements in order to meet certification requirements for K-12 Special Education: Cross Categorical.

Requirements

The Northwest Core (44-47 hours)

See Professional Education Handbook for which of the Northwest Core classes require a C or better.

Institutional Requirements (4 hours)

Elementary Education Major (65 hours)

Professional Requirements

Professional Education Phase II (15 hours)

See Professional Education Handbook for which of the courses below require a C or better.

| | | |
|------------|--|---|
| COM 29553 | Language, Speech, and Hearing of the Exceptional Child and Adult | 3 |
| EDCI 62372 | Systems for Supporting Instruction and Behavior for Students with Disabilities | 2 |
| EDCI 62394 | Special Education: Theory and Techniques of Evaluation, Instruction, and Behavior | 4 |
| EDCI 62396 | Special Education: Implementing Techniques and Strategies of Evaluation, Instruction, and Behavior | 4 |
| EDCI 62408 | Transition and Career Readiness, Families, and Partnerships: Theory and Techniques | 2 |

Field and Clinical Experiences Phase III (9 hours)

| | | |
|------------|--|---------|
| EDCI 62454 | Special Education: Residency Practicum | 3 |
| EDUC 61481 | Directed Teaching in Cross Categorical Special Education: Elementary OR | 1 to 12 |
| EDUC 61482 | Directed Teaching in Cross Categorical Special Education: Secondary | 1 to 12 |

Note: Directed teaching from other certification or other degrees may count for up to 6 hours of the 12 required hours.

Free electives as needed to reach minimum 120 graduation hours

When combined with a major in elementary education, there are two Directed Teaching placements of 6 hours each (one elementary and one special education for a total of 12). Each major, taken separately, would require 12 hours of directed teaching, so this major does NOT add additional Directed Teaching hours.

Education: Educational Leadership / 61

Education B.S., Secondary Program (Certifies Grades 9-12)

Completion of this curriculum and other University requirements qualifies the student to receive a Bachelor of Science in Education degree.

The number of hours in the major, minor, and elective categories may vary depending on the major and minor selected. Care should be exercised in choosing courses to assure a minimum of 40 semester hours of senior college work in courses numbered above 300.

All degrees in education are subject to state requirements which may change at any time due to action of the State Board of Education.

Required Courses

The Northwest Core (44-47 hours)

See Professional Education Handbook for which of the Northwest Core classes require a C or better.

Must include the following:

| | | |
|------------|-------------------------------------|---|
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| PSYC 08299 | Educational Psychology | 3 |

Directed Northwest Core Requirement: (must achieve grade of C or better in each)

Institutional Requirements (4 hours)

Recommended:

| | | |
|------------|--------------------------------------|---|
| EDCI 62130 | Educational Computing and Technology | 3 |
|------------|--------------------------------------|---|

Degree Requirement (3 hours)

| | | |
|------------|-------------------------------|---|
| EDUC 61569 | Multiculturalism in Education | 3 |
|------------|-------------------------------|---|

The degree requirement for Multiculturalism in Education is separate from the Humanities requirement in The Northwest Core.

Professional Requirements

Professional Education Phase I (9 hours)

See Professional Education Handbook for which of the courses below require a C or better.

| | | |
|------------|--|---|
| EDCI 62107 | Ecology and Developmental Foundations of Education | 2 |
| EDCI 62113 | Professional Learning Community I | 1 |
| EDCI 62108 | Introduction to Curriculum, Instruction and Assessment | 2 |
| EDCI 62116 | Professional Learning Community II | 1 |
| EDCI 62109 | Positive Communication in an Inclusive Classroom | 2 |
| EDCI 62119 | Professional Learning Community III | 1 |

Professional Education Phase II (11-12 hours)

| | | |
|------------|--|-------------|
| EDUC 61301 | Developmental Foundations of Adolescent and Content Literacy | 2 |
| EDUC 61302 | Professional Learning Community Middle and Secondary IV | 1 |
| EDUC 61310 | Classroom and Behavior Management Strategies | 1 |
| EDUC 61311 | Designing Integrated Middle School and Secondary Curriculum | 1 |
| EDUC 61312 | Professional Learning Community for Middle School and Secondary V | 1 |
| EDUC 61324 | Intervention and Assessment: Literacy, Special Populations, and English Language | 2 |
| EDUC 61325 | Professional Learning Community VI Secondary School Content Methods | 1 2 to 3 |

Professional Education Phase III (15 hours)

| | | |
|------------|---|---------|
| EDUC 61431 | Secondary School Practicum | 1 |
| EDUC 61432 | Professional Education Capstone | 2 |
| EDUC 61472 | Directed Teaching in the Secondary School | 1 to 10 |
| PSYC 08322 | Adolescent Psychology | 2 |

Special Methods: (See department course listings.) A special methods course must be completed with each major or minor which carries 9-12 or K-12 certification.

Major or Major/Minor Requirements and Electives (37-38)

Based on the Department of Elementary and Secondary Education certification requirements, there may be variances in subject area curriculum requirements.

Education B.S., Elementary-Secondary Program (K-12 Certification)

Completion of this curriculum and other University requirements qualifies a student to receive a Bachelor of Science in Education degree.

Candidates for this program must complete a major in one of the following areas: art, modern language, music, or physical education.

These majors may be combined with other majors and/or minors.

The number of hours in the major, minor, and elective categories may vary depending on the major and minor selected. Care should be exercised in choosing courses to assure a minimum of 40 semester hours of senior college work in courses numbered above 300.

All degrees in education are subject to state requirements which may change at any time due to action of the State Board of Education.

Required Courses

The Northwest Core (44-47 hours)

See Professional Education Handbook for which of the Northwest Core classes require a C or better.

Must include the following:

| | | |
|--|-------------------------------------|---|
| COM 29102 | Fundamentals of Oral Communication✓ | 3 |
| PSYC 08299 | Educational Psychology | 3 |
| Directed Northwest Core Requirement: (must achieve grade of C or better in each) | | |

Institutional Requirements (4 hours)

Recommended:

| | | |
|------------|--|---|
| EDUC 61145 | Information and Educational Technology | 3 |
|------------|--|---|

Degree Requirement (3 hours)

| | | |
|------------|-------------------------------|---|
| EDUC 61569 | Multiculturalism in Education | 3 |
|------------|-------------------------------|---|

Professional Requirements

Professional Education Phase I (9 hours)

See Professional Education Handbook for which of the courses below require a C or better.

| | | |
|------------|--|---|
| EDCI 62107 | Ecology and Developmental Foundations of Education | 2 |
| EDCI 62113 | Professional Learning Community I | 1 |
| EDCI 62108 | Introduction to Curriculum, Instruction and Assessment | 2 |
| EDCI 62116 | Professional Learning Community II | 1 |
| EDCI 62109 | Positive Communication in an Inclusive Classroom | 2 |
| EDCI 62119 | Professional Learning Community III | 1 |

Professional Education Phase II (11-12 hours)

| | | |
|------------|--|--------|
| EDUC 61301 | Developmental Foundations of Adolescent and Content Literacy | 2 |
| EDUC 61302 | Professional Learning Community Middle and Secondary IV | 1 |
| EDUC 61310 | Classroom and Behavior Management Strategies | 1 |
| EDUC 61311 | Designing Integrated Middle School and Secondary Curriculum | 1 |
| EDUC 61312 | Professional Learning Community for Middle School and Secondary V | 1 |
| EDUC 61324 | Intervention and Assessment: Literacy, Special Populations, and English Language | 2 |
| EDUC 61325 | Professional Learning Community VI | 1 |
| | Special Methods in Education | 2 to 3 |

Professional Education Phase III (15 hours)

| | | |
|------------|--|---------|
| EDUC 61431 | Secondary School Practicum | 1 |
| EDUC 61432 | Professional Education Capstone | 2 |
| EDUC 61470 | Directed Teaching in Elementary and Secondary School | 1 to 10 |
| PSYC 08322 | Adolescent Psychology | 2 |

Special Methods: A special methods course must be completed with each major or minor which carries 9-12 or K-12 certification. See department course listings.

Major or Major/Minor Requirements and Electives (37-38)

Based on the Department of Elementary and Secondary Education certification requirements, there may be variances in subject area curriculum requirements.

Alternative Certification Program

The Northwest Alternative Certification Program is a two-year, certification-only program for candidates with content-related undergraduate degrees who are seeking Missouri teacher certification. It is not a master's program.

The purpose of the Alternative Certification Program is to:

1. Provide an alternate route to Missouri teacher certification for quality candidates who are employed as teachers of record in Missouri school districts.
2. Provide an intensive teacher preparation program designed to provide these teachers with the knowledge and skills needed to perform effectively in the classroom.

Provisional Missouri Teacher Certification

Provisional certification is available in areas offered through the traditional route through Northwest at the secondary and middle school levels, several K-12 areas (physical education, art, music, foreign language). Northwest does not currently offer alternative certification at the elementary level. Candidates must meet all requirements for provisional certification including minimum GPA, successful background check, continuing employment, beginning teacher requirements, etc.

Program Admission Requirements

1. Must hold a bachelor's degree in the content area or closely related field or successfully pass the Missouri Content Assessment (MoCA) in the subject area.
2. Must have a minimum 2.75 GPA overall and a minimum 3.0 GPA in their content area from all previous coursework.
3. Must submit all undergraduate and graduate level transcripts and résumé to the Alternative Certification Office for transcript audit. This audit may include a writing assessment and dispositions inventory.
4. Interview with Department may be required.
5. Make application to the Graduate School.
6. Provide proof of employment as teacher of record in a Missouri school district.
7. Completed the Memorandum of Agreement from candidate and school district.
8. Complete all Provisional Certification paperwork including a Fingerprint and Criminal Background Check as designated by Missouri Department of Elementary and Secondary Education.

Northwest alternative certification students are in a certification-only program. Acceptance in the Northwest Alternative Certification Program does not guarantee acceptance into any Northwest master's program.

Program Requirements

1. Northwest alternative certification students are responsible for the material as printed in the academic catalogs.

2. Alternative certification students can qualify for financial aid in semesters when they are enrolled in a minimum of 5-6 credit hours.
3. Students are expected to take only the classes approved through the two-year program of study. Students can only enroll in non-program classes with written approval from the Northwest Alternative Certification Director (or her/his designated appointee) who serves as advisor for all alternative certification candidates. If a student has not progressed by completing their prescribed program, they will not be allowed to continue in the program or be recommended for certification.
4. Content area classes required on individual programs of study do not have to be taken through Northwest but must be approved by the Northwest Alternative Certification Director (or her/his designated appointee) before a candidate takes the class to ensure that the content meets the program requirement. If a student takes a class without this approval, he/she may have to take another class to meet the requirement. Northwest is not responsible if the student takes a class without prior approval.
5. Purchase access to and utilize Tk20 Assessment System.

Program Completion Requirements

1. Complete all class requirements as outlined on program of study with
 - a. a minimum 3.0 GPA in all graduate level coursework and content area courses
 - b. a cumulative 2.75 GPA is required of all undergraduate and graduate coursework
2. Complete two-year teaching requirement and meet classroom observation component.
3. Successfully complete Missouri Educator Evaluation Assessment (MEES).
4. Successfully complete the Missouri Content Area Assessment for the certification area sought.
5. Submit all required initial teacher certification paperwork.
6. Complete all university certification program paperwork.

Secondary Alternative Certification Program

Requirements

Required Courses

| | | |
|------------|---|-----|
| EDUC 61569 | Multiculturalism in Education | 3 |
| EDUC 61614 | Introduction to Teaching | 3 |
| EDUC 61615 | Organizing for Learning | 3 |
| EDUC 61616 | Teaching Strategies | 2 |
| EDUC 61617 | Organizing for Learning II | 3 |
| EDUC 61633 | Curriculum Design | 3 |
| EDUC 61649 | Issues in Education | 3 |
| EDCI 62553 | The Reading Program in the Secondary School | 3 |
| | Content Methods Course | 2-3 |

(each of the 13 content areas have their own numbers for their specific content methods course)

28 hours plus any content area deficiencies will be added to the total. See program coordinator for advisement.

Middle School Alternative Certification Program (5-9 Endorsement)

Requirements

Required Courses

| | | |
|------------|---|-----|
| EDUC 61569 | Multiculturalism in Education | 3 |
| EDUC 61570 | The Middle School | 3 |
| EDUC 61614 | Introduction to Teaching | 3 |
| EDUC 61615 | Organizing for Learning | 3 |
| EDUC 61616 | Teaching Strategies | 2 |
| EDUC 61617 | Organizing for Learning II | 3 |
| EDUC 61633 | Curriculum Design | 3 |
| EDUC 61649 | Issues in Education | 3 |
| EDCI 62553 | The Reading Program in the Secondary School | 3 |
| | Content Methods Course | 2-3 |

(Each of the 13 content areas has their own content methods course number.)

34-35 hours plus any content area deficiencies will be added to the total. See program coordinator for advisement.

School of Health Science and Wellness

Director: Terry Long

The School of Health Science and Wellness is comprised of six primary discipline areas including: Applied Health Science, Foods and Nutrition, Health and Physical Education, Nursing, Recreation, and Behavioral Sciences. All programs and courses are developed and delivered by fully qualified faculty and staff. Within each of these disciplines, multiple options, majors, emphasis areas, certifications, and minors exist.

Statement of Vision and Mission

Vision

The School of Health Science and Wellness will be the top choice for students seeking cutting edge educational opportunities in the pre-professional and professional fields in Health Science and Wellness

Mission

The mission of the School of Health Science and Wellness is to collaboratively educate diverse health and wellness professionals through excellence in student focused education and profession-based experiences centered on the science of lifespan health and active living.

Division of Health Sciences

Faculty: Kristina Adanin, Karima Alabasi, Jessica Anderson, Michelle Bateman, Rhonda Beemer, Loren Butler, Guangzhou Chen, Rachel Huston, Jodie Leiss, Damon Leiss, Terry Long, Gina McNeese, Susan Myllykangas, Machel Skinner, Matthew Symonds, Tyler Tapps

The vision of the Division of Health Science is “lifespan health and active living.” This vision is to be achieved through our mission, which is “to prepare and develop professionals to become leaders in the facilitation of healthy active lifestyles throughout society and across the lifespan”.

Foods and Nutrition Program / 47

In accordance with the vision and mission of Northwest Missouri State University, the philosophy of the Foods and Nutrition program is to provide quality education experiences, which are student-centered, and maintain commitment to continuous improvement. The mission of the Didactic Program in Dietetics is to instill in dietetics graduates a desire to be life-long learners, leaders, to prepare them for dietetics internships and to deliver food and nutrition services throughout society and across the lifespan to sustain or enhance their quality of life.

Advanced Standing Requirement

A student may apply for advanced standing after completing 60 hours and the completion of both NUTR 47234 Nutrition & Diet Behavior and NUTR 47431 Macronutrients with a minimum grade of B and a cumulative grade point of 3.0.

Must also complete 12 credit hours including ENGL 10111, ENGL 10112, COM 29102, MATH 17114 General Statistics, and NUTR 47234 Nutrition & Diet Behavior before being permitted to take

any 300-400 level Dietetics course. These courses must be completed with a minimum 2.50 grade average.

Foods and Nutrition Comprehensive Major; Didactic Program in Dietetics, 74 hours: B.S.—No Minor Required

CIP: 513101

This program offers two tracks of study. One provides education for persons desiring a career in foods and nutrition who wish to seek the Registered Dietitian credential, and the other will offer a degree in foods and nutrition for students who do not wish to seek the Registered Dietitian credential. The Didactic Program in Dietetics at Northwest is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics, 120 South Riverside, Plaza Suite 2190, Chicago, IL 60606, (312) 899-0400, ext. 5400. The ACEND Registered Dietitian track, followed by a dietetic internship, enables one to sit for the examination leading to registered dietitian (RD) status.

Required Courses

The Northwest Core (44-47 hours)

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04102 | General Biology✓ | 3 |
| BIOL 04103 | General Biology Laboratory✓ OR | 1 |
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| MATH 17114 | General Statistics✓ | 3 |
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ | 1 |
| PHIL 39276 | Biomedical Ethics✓ | 3 |
| COM 29225 | Intercultural Communication | 3 |

Institutional Requirements (4 hours)

Must include the following:

| | | |
|------------|--------------------------------------|---|
| CSIS 44130 | Computers and Information Technology | 3 |
|------------|--------------------------------------|---|

Dietetics Core (23 hours)

| | | |
|------------|-----------------------------|---|
| ACCT 51201 | Accounting I | 3 |
| NUTR 47230 | Food Science | 4 |
| NUTR 47232 | Food Service Management | 3 |
| NUTR 47240 | Introduction to Dietetics | 2 |
| NUTR 47234 | Nutrition and Diet Behavior | 3 |
| NUTR 47334 | Lifespan Nutrition | 3 |
| NUTR 47335 | Community Nutrition | 3 |
| NUTR 47440 | Senior Seminar in Dietetics | 2 |

Track I—ACEND Registered Dietitian (RD) (51 hours)

| | | |
|------------|--------------------------------------|--------|
| BIOL 04104 | Medical Terminology | 3 |
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04236 | Anatomy Allied Health | 4 |
| BIOL 04238 | Physiology Allied Health | 4 |
| NUTR 47332 | Quantity Food Preparation | 2 |
| NUTR 47333 | Quantity Food Preparation Laboratory | 2 |
| NUTR 47338 | Practicum in Dietetics | 1 to 3 |
| NUTR 47431 | Macronutrients | 3 |
| NUTR 47432 | Micronutrients | 3 |
| NUTR 47433 | Medical Nutrition Therapy I | 4 |
| NUTR 47434 | Medical Nutrition Therapy II | 4 |

| | | |
|------------|--|---|
| NUTR 47436 | Medical Nutrition Counseling | 3 |
| CHEM 24242 | Organic Chemistry | 3 |
| CHEM 24243 | Organic Chemistry Laboratory | 1 |
| CHEM 24362 | Elementary Biochemistry | 3 |
| CHEM 24363 | Elementary Biochemistry Laboratory | 1 |
| MGMT 54313 | Principles of Management | 3 |
| | 300 or 400-level advisor-approved elective | 3 |

NUTR 47432 has a prerequisite of CHEM 24242, CHEM 24243 and CHEM 24362, CHEM 24363.

Track II—Foods and Nutrition (non RD) (51 hours)

| | | |
|------------|---|----|
| BIOL 04104 | Medical Terminology | 3 |
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04236 | Anatomy Allied Health | 4 |
| BIOL 04238 | Physiology Allied Health | 4 |
| NUTR 47431 | Macronutrients | 3 |
| NUTR 47432 | Micronutrients | 3 |
| NUTR 47433 | Medical Nutrition Therapy I | 4 |
| NUTR 47436 | Medical Nutrition Counseling | 3 |
| CHEM 24242 | Organic Chemistry | 3 |
| CHEM 24243 | Organic Chemistry Laboratory | 1 |
| CHEM 24362 | Elementary Biochemistry | 3 |
| CHEM 24363 | Elementary Biochemistry Laboratory | 1 |
| MGMT 54313 | Principles of Management | 3 |
| | Advisor-approved, upper-level electives | 12 |

Free electives as needed to reach minimum 120 graduation hours

Students majoring in Foods and Nutrition must earn a grade of C or above in all courses required for the major.

Note: If ANY courses in the requirements for this major are also used to fulfill a Northwest Core or Institutional Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Food Service Minor, 25 hours: B.S.

CIP: 190505

(Not available to Foods and Nutrition majors)

Requirements

Required Courses (16 hours)

| | | |
|------------|---|--------|
| NUTR 47230 | Food Science | 4 |
| NUTR 47232 | Food Service Management | 3 |
| NUTR 47234 | Nutrition and Diet Behavior | 3 |
| NUTR 47332 | Quantity Food Preparation | 2 |
| NUTR 47333 | Quantity Food Preparation Laboratory | 2 |
| NUTR 47439 | Field Experience in Food Service Management | 1 to 6 |

Choose nine hours from the following courses (9 hours):

| | | |
|------------|---------------------------|---|
| ACCT 51201 | Accounting I | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |
| MGMT 54314 | Human Resource Management | 3 |
| FIN 53311 | Business Law I | 3 |

NUTR 47439 must be taken for a minimum of 2 hours.

Nutrition Minor, 23-24 hours: B.S.

CIP: 190501

(Not available to Foods and Nutrition Majors)

Requirements

The Northwest Core (44-47 hours)

Must include the following:

| | | |
|------------|-------------------------------------|---|
| BIOL 04102 | General Biology✓ | 3 |
| BIOL 04103 | General Biology Laboratory✓ | 1 |
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ OR | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |

Required Courses (16 hours)

| | | |
|------------|-----------------------------|---|
| NUTR 47230 | Food Science | 4 |
| NUTR 47234 | Nutrition and Diet Behavior | 3 |
| NUTR 47334 | Lifespan Nutrition | 3 |
| NUTR 47431 | Macronutrients | 3 |
| NUTR 47432 | Micronutrients | 3 |

Choose four hours from the following sets (4 hours):

Set 1:

| | | |
|------------|------------------------------|---|
| CHEM 24242 | Organic Chemistry | 3 |
| CHEM 24243 | Organic Chemistry Laboratory | 1 |

Set 2:

| | | |
|------------|--------------------------------|---|
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |

Set 3:

| | | |
|------------|------------------------------------|---|
| CHEM 24362 | Elementary Biochemistry | 3 |
| CHEM 24363 | Elementary Biochemistry Laboratory | 1 |

Choose three to four hours from the following courses (3-4 hours):

| | | |
|------------|--------------------------|---|
| BIOL 04436 | Human Anatomy | 4 |
| BIOL 04238 | Physiology Allied Health | 4 |
| HPER 22254 | Anatomy and Physiology | 3 |
| HPER 22332 | Physiology of Exercise | 3 |

Northwest Core requirements are listed above. Refer to appropriate course descriptions for prerequisites for science courses.

Applied Health Science, Health & Physical Education Programs / 22

Applied Health Science Major, 60-64 hours: B.S.—No Minor Required

CIP: 510001

Mission

The mission of the Applied Health Science Program is to prepare future Health Science professionals for exemplary careers in a variety of health related professions. Graduates from the program will possess the knowledge and skills necessary to confront the health related challenges of tomorrow and the ability to serve a diverse clientele as a facilitator of healthy lifestyle across the lifespan.

Advanced Standing Requirements

A student may apply for advanced standing after completing 40 semester hours. The 40 semester hours must be completed with a grade point average of 2.75. The student must also complete the following courses with a grade of B or better: HPER 22254 Anatomy and

Physiology or BIOL 04236 Anatomy Allied Health, HPER 22332 Physiology of Exercise, and HPER 22336 Basic Biomechanics.

To be in good standing (advanced standing), students must maintain a minimum GPA of 2.75 or higher within all major courses (Applied Health Science core and emphasis area) and must have a grade of C or better in all Applied Health Science (core) courses. Students must petition the School Director to gain permission to retake any Applied Health Science core class a third time.

Requirements

The Northwest Core (44-47 hours)

Recommended:

| | | |
|------------|-------------------------------|---|
| BIOL 04102 | General Biology✓ | 3 |
| BIOL 04103 | General Biology Laboratory✓ | 1 |
| CHEM 24112 | General Chemistry✓ | 3 |
| CHEM 24113 | General Chemistry Laboratory✓ | 1 |
| PHIL 39276 | Biomedical Ethics✓ | 3 |

Institutional Requirements (4 hours)

Core Requirements (36-37 hours)

| | | |
|------------|---|--------|
| HPER 22223 | Introduction in Health Science and Wellness Professions | 2 |
| BIOL 04104 | Medical Terminology | 3 |
| HPER 22114 | Wellness | 3 |
| NUTR 47234 | Nutrition and Diet Behavior | 3 |
| HPER 22254 | Anatomy and Physiology OR | 3 |
| BIOL 04236 | Anatomy Allied Health | 4 |
| HPER 22332 | Physiology of Exercise | 3 |
| HPER 22336 | Basic Biomechanics | 3 |
| HPER 22447 | Senior Seminar in Health Science and Wellness | 1 |
| HPER 22470 | Profession Based Experience in Applied Health Science | 3 to 6 |
| HPER 22534 | Evidence Based Practice in Health Science and Wellness | 3 |
| HPER 22550 | Community Health | 3 |
| HPER 22552 | Health Promotion | 3 |
| HPER 22555 | Intervention and Strategies for Health Behavior Change | 3 |

Emphasis 1: Aging Studies (18 hours)

| | | |
|------------|--------------------------------------|---|
| REC 45216 | Gerontology | 3 |
| REC 45315 | Social Aspects of Aging and Families | 3 |
| REC 45469 | Practicum in Aging | 3 |
| PSYC 08383 | Psychology of Aging | 3 |
| REC 45365 | Leisure and Aging | 3 |
| HPER 22556 | Health in the Later Years | 3 |

Aging Studies Electives (9 hours)

Choose 9 hours from below

| | | |
|------------|---|---|
| REC 45461 | Therapeutic Recreation Interventions with the Elderly | 3 |
| PSYC 08344 | Drugs, Brain, and Behavior | 3 |
| COM 29325 | Listening Behavior and Skills | 3 |
| COM 29336 | Nonverbal Communication | 3 |
| REC 45547 | Grant Writing | 3 |
| COM 29225 | Intercultural Communication | 3 |
| HPER 22220 | Lifetime Activities and Dance | 3 |

Note: COM 29225, if taken, may not also count in The Northwest Core.

Emphasis 2: Exercise Science (18-19 hours)

| | | |
|------------|--|---|
| HPER 22335 | Sport and Exercise Nutrition Topics | 3 |
| HPER 22382 | Care and Prevention of Athletic Injuries | 3 |

| | | |
|------------|--|---|
| HPER 22529 | Theory and Fundamentals of Strength and Conditioning/Personal Training | 3 |
| HPER 22532 | Exercise Testing, Prescription, and Analysis of Cardiac Function | 3 |
| HPER 22536 | Mechanical Analysis of Sports Skills | 3 |
| HPER 22541 | Human Pathophysiology OR | 3 |
| BIOL 04238 | Physiology Allied Health | 4 |

Exercise Science Electives (6 hours)

Choose 6 hours from below:

| | | |
|------------|---|---|
| HPER 22233 | First Aid, CPR, and Care of Sports Injuries | 3 |
| PSYC 08212 | Personal Adjustment | 3 |
| HPER 22410 | Adapted Physical Education | 3 |
| HPER 22523 | Motor Development | 3 |
| HPER 22515 | Issues in Sport | 3 |
| HPER 22556 | Health in the Later Years | 3 |
| PSYC 08325 | Sport Psychology | 3 |

Free electives as needed to reach required minimum 120 graduation hours

Physical Education Advanced Standing Requirement

A student may apply for advanced standing after completing 40 semester hours. The 40 hours must be completed with a minimum grade point average. The student must also complete the following courses with grades of C or better and a minimum grade point average of 3.00: HPER 22220 Lifetime Activities and Dance, 3 hours; HPER 22233 First Aid, CPR, and Care of Sports Injuries, 3 hours; HPER 22239 Foundations of Physical Education, 3 hours; and HPER 22254 Anatomy and Physiology, 3 hours. Please reference the Professional Education Handbook for minimum GPA requirements.

Professional Education Admission: Physical Education majors must also be admitted into the Professional Education Program. This process is initiated at the Teacher Education Student Service (TESS) Office. Refer to current guidelines for admission requirements.

Physical Education Certification: Students desiring to be certified to teach in Missouri must complete the Physical Education major coursework and all professional education coursework as listed for B.S. Education programs as required by the School of Education and the Professional Education Program.

To be certified to teach physical education in Missouri requires passing the Missouri Content Assessment.

Physical Education Upper-level Gated Courses:

The Physical Education major must be admitted to the Professional Education Program before admittance into specified upper-level physical education courses. There may be additional gated courses in the Professional Education Program not specified in the physical education major. The following upper-level physical education courses are “closed” or “gated” courses. Majors must be admitted to the Professional Education Program before taking any of the following courses:

Gated Courses

| | | |
|------------|--|---|
| HPER 22445 | Literacy and Applications in Physical Education | 3 |
| HPER 22512 | Socio-Psychological Aspects of Human Performance | 3 |
| HPER 22523 | Motor Development | 3 |
| HPER 22537 | Assessment in Physical Education | 3 |
| HPER 22580 | Methods in Secondary Physical Education | 3 |

Physical Education Major, 45 hours: B.S.Ed. (Certifies Grades K-12)

CIP: 131314

The vision of the Physical Education Teacher Education Unit is to develop competent and reflective educators. The mission of the Physical Education Teacher Unit is to:

1. Develop the teacher candidates' knowledge base.
2. Provide experiential learning activities for the teacher candidate to develop a variety of instructional skills for all learners.
3. Mentor the teacher candidate to enhance positive dispositions.
4. Model best practices of the profession.

Physical Education program completion requirements:

1. Completion of a program-approved field experience within a diverse setting as required by the teacher preparation program.
2. Successful completion of the Missouri teacher certification exam for physical education.
3. Completion of all exit criteria in order to complete the teacher education program and be recommended for graduation and certification.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (45 hours)

| | | |
|------------|--|---|
| HPER 22114 | Wellness | 3 |
| HPER 22220 | Lifetime Activities and Dance | 3 |
| HPER 22233 | First Aid, CPR, and Care of Sports Injuries | 3 |
| HPER 22239 | Foundations of Physical Education | 3 |
| HPER 22254 | Anatomy and Physiology | 3 |
| HPER 22332 | Physiology of Exercise | 3 |
| HPER 22335 | Sport and Exercise Nutrition Topics | 3 |
| HPER 22336 | Basic Biomechanics | 3 |
| HPER 22362 | Creative Movement & Rhythms | 3 |
| HPER 22382 | Care and Prevention of Athletic Injuries | 3 |
| HPER 22410 | Adapted Physical Education | 3 |
| HPER 22435 | Lifetime Team and Individual Sports Instruction | 3 |
| HPER 22512 | Socio-Psychological Aspects of Human Performance | 3 |
| HPER 22523 | Motor Development | 3 |
| HPER 22537 | Assessment in Physical Education | 3 |

Degree Requirement (3 hours)

| | | |
|------------|-------------------------------|---|
| EDUC 61569 | Multiculturalism in Education | 3 |
|------------|-------------------------------|---|

Professional Education Phase I (5 hours)

| | | |
|------------|--|---|
| EDCI 62107 | Ecology and Developmental Foundations of Education | 2 |
| EDCI 62109 | Positive Communication in an Inclusive Classroom | 2 |
| EDCI 62119 | Professional Learning Community III | 1 |

Professional Education Phase II (8 hours)

| | | |
|------------|--|---|
| EDUC 61301 | Developmental Foundations of Adolescent and Content Literacy | 2 |
| EDUC 61310 | Classroom and Behavior Management Strategies | 1 |
| EDUC 61311 | Designing Integrated Middle School and Secondary Curriculum | 1 |
| EDUC 61312 | Professional Learning Community for Middle School and Secondary V | 1 |
| EDUC 61324 | Intervention and Assessment: Literacy, Special Populations, and English Language | 2 |

| | | |
|--|--|---------|
| EDUC 61325 | Professional Learning Community VI | 1 |
| Professional Education Phase III (27 hours) | | |
| EDUC 61432 | Professional Education Capstone | 2 |
| EDUC 61470 | Directed Teaching in Elementary and Secondary School | 1 to 10 |
| HPER 22260 | Observation and Practicum I in Physical Education | 2 |
| HPER 22360 | Mid-Level Field Experience in Physical Education | 2 |
| HPER 22445 | Literacy and Applications in Physical Education | 3 |
| PSYC 08322 | Adolescent Psychology | 2 |
| HPER 22238 | Health and Physical Education Methods in the Elementary School | 3 |
| HPER 22580 | Methods in Secondary Physical Education | 3 |

Free electives as needed to reach minimum 120 graduation hours

Coaching Minor, 24 hours

CIP: 131314

The Coaching minor is designed to prepare future coaches, sport program managers, and athletic administrators for employment in school, non-profit, and public sports programs.

Requirements

Course Requirements (24 hours)

| | | |
|------------|--|---|
| HPER 22233 | First Aid, CPR, and Care of Sports Injuries | 3 |
| HPER 22254 | Anatomy and Physiology | 3 |
| HPER 22331 | Introduction to Officiating | 3 |
| HPER 22334 | Theory and Administration of Coaching | 3 |
| HPER 22382 | Care and Prevention of Athletic Injuries | 3 |
| HPER 22529 | Theory and Fundamentals of Strength and Conditioning/Personal Training | 3 |
| HPER 22332 | Physiology of Exercise | 3 |
| | OR | |
| HPER 22336 | Basic Biomechanics | 3 |
| HPER 22335 | Sport and Exercise Nutrition Topics | 3 |
| | OR | |
| NUTR 47234 | Nutrition and Diet Behavior | 3 |
| | OR | |
| PSYC 08325 | Sport Psychology | 3 |

Health Education Minor, 30 hours: B.S.Ed., Secondary Program (Certifies Grades 9-12)

CIP: 131307

Requirements

Core Requirements (27 hours)

| | | |
|------------|--|---|
| HPER 22233 | First Aid, CPR, and Care of Sports Injuries | 3 |
| HPER 22254 | Anatomy and Physiology | 3 |
| HPER 22332 | Physiology of Exercise | 3 |
| HPER 22550 | Community Health | 3 |
| HPER 22554 | Human Sexuality | 3 |
| HPER 22555 | Intervention and Strategies for Health Behavior Change | 3 |
| PSYC 08212 | Personal Adjustment | 3 |
| NUTR 47234 | Nutrition and Diet Behavior | 3 |
| SCGD 68520 | Drug Prevention and Education in Schools | 3 |

Three hours from the following (3 hours):

| | | |
|------------|---|---|
| HPER 22272 | Introduction to Safety Education-Driver Education I | 3 |
| HPER 22552 | Health Promotion | 3 |

| | | |
|------------|---------------|---|
| BIOL 04376 | Basic Ecology | 4 |
| PSYC 08330 | The Family | 3 |

Professional Education Requirements

See Secondary Education Program Requirements (p. 310)

Students must take HPER 22480 Health Methods in the Secondary School as part of their professional education requirements.

This minor, when completed under the B.S.Ed. Secondary Program, will meet Missouri teacher certification standards for Health Education grades 9-12.

Health & Information Systems Minor, 24 hours

CIP: 512706

This is an interdisciplinary minor in conjunction with the School of Computer Science and Information Systems and the School of Health Science and Wellness. The minor consists of courses designed to provide students with a broad exposure to health science and computer science and information systems disciplines.

Requirements**Required Courses (18 hours)**

| | | |
|------------|--------------------------------|---|
| CSIS 44144 | Web Development I | 3 |
| CSIS 44317 | Management Information Systems | 3 |
| CSIS 44343 | Digital Technologies | 3 |
| HPER 22114 | Wellness | 3 |
| HPER 22550 | Community Health | 3 |
| HPER 22552 | Health Promotion | 3 |

Electives (6 hours)

Select 6 hours from the following courses:

| | | |
|------------|--|---|
| CSIS 44155 | Introduction to Data Science and Data Mining | 3 |
| CSIS 44141 | Computer Programming I | 3 |
| CSIS 44320 | Advanced Word Processing | 1 |
| CSIS 44330 | Presentation Graphics | 1 |
| CSIS 44340 | Digital Media | 1 |
| CSIS 44336 | Spreadsheet Applications | 1 |
| CSIS 44337 | Advanced Spreadsheets and Charting | 1 |
| CSIS 44346 | Database Applications | 1 |
| CSIS 44432 | Business Intelligence and Analytics | 3 |
| CSIS 44411 | Systems Analysis and Design | 3 |
| HPER 22254 | Anatomy and Physiology | 3 |
| HPER 22541 | Human Pathophysiology | 3 |
| HPER 22555 | Intervention and Strategies for Health Behavior Change | 3 |

Nursing / 01**Nursing Completion Degree Program, 73 hours: B.S.N.—No Minor Required**

CIP: 513801

The curriculum leading to the Bachelor of Science in Nursing allows registered nurses to complete a B.S.N. degree. As a liberal arts degree, the program includes The Northwest Core and Institutional Requirements, as well as upper-division nursing courses. Successful completion of the program results in the conferral of the B.S.N. degree.

This program is online only.

Requirements

Northwest Core (44-47 hours)

Students will take the 44 hours in The Northwest Core for credit toward a B.S.N.

Institutional Requirement (3 hours)

Students will take a 3-hour digital literacy course to meet the Institutional Requirement.

Required Courses (30 hours)

Must earn a grade of C or better in all NURS courses.

| | | |
|------------|--------------------------------------|---|
| NURS 01301 | Theories and Models of Nursing | 3 |
| NURS 01302 | Professional Role Transitions | 3 |
| NURS 01303 | Nursing Law and Ethics | 3 |
| NURS 01311 | Health Care Delivery Systems | 3 |
| NURS 01401 | Leadership and Management in Nursing | 4 |
| NURS 01411 | Health Assessment | 4 |
| NURS 01421 | Community Nursing | 4 |
| NURS 01481 | Evidence-Based Nursing Practice | 3 |
| NURS 01454 | Nursing Informatics | 3 |

Credit for RN license (43 hours)

Students will receive 43 credit hours toward the B.S.N. degree by submitting a Registered Nursing license that is proven to be in good standing.

Free electives as needed to reach minimum 120 graduation hours

Recreation Programs / 45

Vision

- We make a difference locally, nationally, and internationally.
- We graduate students who are prepared and qualified to design, manage, and lead traditional recreation programs that are accessible to all peoples in both urban and rural areas.
- We prepare passionate students for the profession who can think critically, solve problems, communicate effectively, lead with assurance, and contribute to the continuation of the field and their communities.
- We are a model of pedagogy for the School and University.
- We believe in the philosophy of holistic health through the provision of recreation. We will prepare our students to design, implement, manage, and evaluate programs and services in all recognized areas of the profession (i.e., cultural, aquatic, athletic, outdoor, commercial, public and private sector events and/or resource management, wellness, and therapeutic, with each age and/or need-based appropriate levels for groups or individuals throughout the lifespan—children, youth, adults, seniors).

Mission

The mission of the Recreation Program is the preparation of future Parks, Recreation and Leisure Service professionals. Professionals, who possess the knowledge, technical and human relations' skills needed to facilitate lifelong learning in a world of change; to confront the challenges of tomorrow; and the ability to help others in the development and pursuit of productive and healthy leisure lifestyles.

Values

- TOLERANCE for diverse peoples and situations.

- **QUALITY OF LIFE** by taking responsibility for our own health and promoting positive healthy behaviors to others.
- **EXCELLENCE** through our efforts to do the best quality work at all times.
- **STEWARDSHIP** through responsible social and environmental actions.
- **ADVOCACY** for access to services for everyone who wishes to participate.
- **CARING** for each other; both personally and professionally.
- **HONESTY** with each other to work together for the betterment of the program and success of our students.
- **RESPECT** for the historic foundations of the profession.
- **EXPERIENCE** for our students and selves through hands-on applications, coursework, and projects.

Advanced Standing Requirement: Recreation

To be in good standing (advanced standing), students must maintain a minimum GPA of 2.25 or higher within all major courses (recreation core and emphasis area) and must have a grade of C or better in all recreation (core) courses. Students must petition the School Director to gain permission to retake any recreation core class a third time.

Recreation Major, 74 hours: B.S.—No Minor Required

CIP: 310101

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Major Core (24 hours)

Applies to all emphasis areas.

| | | |
|-----------|---|---|
| REC 45240 | Foundations of Recreation | 3 |
| REC 45245 | Leisure Services and Special Populations | 3 |
| REC 45340 | Recreational Programs | 3 |
| REC 45440 | Recreation Operations Management | 3 |
| REC 45443 | Techniques of Recreation Leadership | 3 |
| REC 45450 | Field Experience in Recreation and Park Management | 3 |
| REC 45446 | Introduction to Research Methods and Evaluation of Leisure Services | 3 |
| REC 45546 | Administration of Recreation | 3 |

Major Core courses require a grade of C or better. REC 45450 must be completed with a grade of C or better prior to enrollment in upper division courses (REC 45446, REC 45546, and REC 45498 or REC 45499) or with approval from the Recreation Program Coordinator.

Setting I—Therapeutic Recreation

Required Courses (41 hours)

| | | |
|------------|---|----|
| HPER 22254 | Anatomy and Physiology | 3 |
| PSYC 08103 | General Psychology✓ | 3 |
| PSYC 08223 | Abnormal Psychology | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |
| REC 45243 | Introductions to Therapeutic Recreation | 3 |
| REC 45345 | Therapeutic Recreation Program Design | 3 |
| REC 45461 | Therapeutic Recreation Interventions with the Elderly | 3 |
| REC 45498 | Internship in Therapeutic Recreation | 11 |

| | | |
|-----------|--|---|
| REC 45542 | Trends and Issues in Therapeutic Recreation | 3 |
| REC 45543 | Administration of Therapeutic Recreation Services | 3 |
| REC 45562 | Assessments, Diagnostics, and Treatment Planning in Therapeutic Recreation | 3 |

PSYC 08103 fulfills a Northwest Core requirement as well as a requirement for Setting I—Therapeutic Recreation, but the credit hours for the class may be counted only once toward the total number of credit hours required for graduation.

Approved Electives (9 hours)

Complete 9 hours from the list below.

| | | |
|------------|---|---|
| BIOL 04104 | Medical Terminology | 3 |
| HPER 22332 | Physiology of Exercise | 3 |
| HPER 22410 | Adapted Physical Education | 3 |
| HPER 22523 | Motor Development | 3 |
| REC 45216 | Gerontology | 3 |
| REC 45321 | Exploring Recreation Resources | 3 |
| REC 45365 | Leisure and Aging | 3 |
| REC 45547 | Grant Writing | 3 |
| REC 45554 | Psychological Aspects of Therapeutic Recreation | 3 |

Setting II—Corporate Recreation/Wellness

Required Courses (36 hours)

| | | |
|------------|--|---|
| PSYC 08103 | General Psychology✓ | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |
| HPER 22254 | Anatomy and Physiology | 3 |
| HPER 22332 | Physiology of Exercise | 3 |
| HPER 22336 | Basic Biomechanics | 3 |
| HPER 22410 | Adapted Physical Education | 3 |
| HPER 22555 | Intervention and Strategies for Health Behavior Change | 3 |
| NUTR 47234 | Nutrition and Diet Behavior | 3 |
| REC 45499 | Recreation Internship | 9 |
| REC 45533 | Recreation Sports Management | 3 |

PSYC 08103 fulfills a Northwest Core requirement as well as a requirement for Setting II—Corporate Recreation and Wellness, but the credit hours for the class may be counted only once toward the total number of credit hours required for graduation.

Approved Electives (14 hours)

Complete 14 hours from the list below. A maximum of two courses listed at 2 credit hours can be applied for credit in this area.

| | | |
|------------|--|---|
| HPER 22382 | Care and Prevention of Athletic Injuries | 3 |
| HPER 22481 | Theory and Fundamentals of Coaching Soccer | 2 |
| HPER 22482 | Theory and Fundamentals of Coaching Baseball | 2 |
| HPER 22483 | Theory and Fundamentals of Coaching Track and Field | 2 |
| HPER 22484 | Theory and Fundamentals of Coaching Basketball | 2 |
| HPER 22485 | Theory and Fundamentals of Coaching Football | 2 |
| HPER 22486 | Theory and Fundamentals of Coaching Volleyball | 2 |
| HPER 22512 | Socio-Psychological Aspects of Human Performance | 3 |
| HPER 22515 | Issues in Sport | 3 |
| HPER 22529 | Theory and Fundamentals of Strength and Conditioning/Personal Training | 3 |
| HPER 22532 | Exercise Testing, Prescription, and Analysis of Cardiac Function | 3 |
| HPER 22552 | Health Promotion | 3 |
| HPER 22556 | Health in the Later Years | 3 |
| REC 45216 | Gerontology | 3 |
| REC 45321 | Exploring Recreation Resources | 3 |
| REC 45365 | Leisure and Aging | 3 |
| REC 45511 | Golf Course Maintenance and Management | 2 |
| REC 45512 | Aquatic Facility Maintenance and Management | 2 |
| REC 45513 | Outdoor Recreation Facilities Maintenance and Management | 2 |

| | | |
|-----------|-----------------------|---|
| REC 45525 | Commercial Recreation | 3 |
| REC 45547 | Grant Writing | 3 |

Setting III—Recreation and Park Management

Required Courses (21 hours)

| | | |
|------------|------------------------------|---|
| PSYC 08103 | General Psychology✓ | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |
| REC 45444 | Outdoor Recreation/Education | 3 |
| REC 45499 | Recreation Internship | 9 |

| | | |
|-----------|---|---|
| REC 45445 | Natural Resource History and Interpretation OR | 3 |
|-----------|---|---|

| | | |
|-----------|------------------------------|---|
| REC 45533 | Recreation Sports Management | 3 |
|-----------|------------------------------|---|

PSYC 08103 fulfills a Northwest Core requirement as well as a requirement for Setting III—Recreation and Park Management, but the credit hours for the class may be counted only once toward the total number of credit hours required for graduation.

Approved Electives (29 hours)

Consult your advisor to plan courses that will meet your chosen career path. Select 29 hours from the courses listed below.

| | | |
|------------|--|---|
| ACCT 51201 | Accounting I | 3 |
| AGRI 03130 | Plant Science✓ | 4 |
| AGRI 03382 | Woody Landscape Plants | 3 |
| AGRI 03383 | Landscape Design | 3 |
| AGRI 03385 | Greenhouse Crop Production | 3 |
| AGRI 03388 | Fruit and Vegetable Crop Production | 3 |
| AGRI 03389 | Turfgrass Management | 3 |
| AGRI 03483 | Landscape Construction | 3 |
| COM 29225 | Intercultural Communication | 3 |
| COM 29325 | Listening Behavior and Skills | 3 |
| COM 29336 | Nonverbal Communication | 3 |
| GEOG 32201 | Maps and Spatial Reasoning | 3 |
| GEOG 32207 | GPS Fundamentals | 3 |
| GEOG 32362 | Web Mapping | 3 |
| GEOG 32364 | Image Interpretation and Analysis | 3 |
| GEOG 32365 | Geographic Information Systems | 3 |
| GEOG 32401 | Conservation of Natural Resources | 3 |
| HPER 22254 | Anatomy and Physiology | 3 |
| HPER 22362 | Creative Movement & Rhythms | 3 |
| HPER 22410 | Adapted Physical Education | 3 |
| HPER 22435 | Lifetime Team and Individual Sports Instruction | 3 |
| HPER 22512 | Socio-Psychological Aspects of Human Performance | 3 |
| HPER 22552 | Health Promotion | 3 |
| HPER 22556 | Health in the Later Years | 3 |
| MGMT 54310 | Business Communication | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MGMT 54314 | Human Resource Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |
| POLS 34205 | Introduction to Criminal Justice | 3 |
| POLS 34321 | American Federalism | 3 |
| POLS 34332 | Principles of Public Administration | 3 |
| POLS 34338 | Rights of the Accused | 3 |
| PSYC 08223 | Abnormal Psychology | 3 |
| REC 45216 | Gerontology | 3 |
| REC 45243 | Introductions to Therapeutic Recreation | 3 |
| REC 45321 | Exploring Recreation Resources | 3 |
| REC 45365 | Leisure and Aging | 3 |
| REC 45511 | Golf Course Maintenance and Management | 2 |
| REC 45512 | Aquatic Facility Maintenance and Management | 2 |
| REC 45513 | Outdoor Recreation Facilities Maintenance and Management | 2 |

| | | |
|-----------|--------------------------------|---|
| REC 45525 | Commercial Recreation | 3 |
| REC 45547 | Grant Writing | 3 |
| SOC 35320 | Delinquency | 3 |
| SOC 35321 | Criminology | 3 |
| SOC 35375 | Police and Society | 3 |
| EDM 36305 | Disaster Response and Recovery | 3 |

Setting IV—Sport Management

Required Courses (42 hours)

| | | |
|------------|--|---|
| ACCT 51201 | Accounting I | 3 |
| HPER 22254 | Anatomy and Physiology | 3 |
| HPER 22512 | Socio-Psychological Aspects of Human Performance | 3 |
| HPER 22515 | Issues in Sport | 3 |
| MGMT 54310 | Business Communication | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MGMT 54314 | Human Resource Management | 3 |
| MGMT 54345 | Sport Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |
| REC 45499 | Recreation Internship | 9 |
| REC 45525 | Commercial Recreation | 3 |
| REC 45533 | Recreation Sports Management | 3 |

Approved Electives (8 hours)

A maximum of two courses listed at 2 credit hours can be applied in this area.

| | | |
|------------|--|---|
| COM 29225 | Intercultural Communication | 3 |
| COM 29325 | Listening Behavior and Skills | 3 |
| HPER 22335 | Sport and Exercise Nutrition Topics | 3 |
| HPER 22336 | Basic Biomechanics | 3 |
| HPER 22382 | Care and Prevention of Athletic Injuries | 3 |
| HPER 22435 | Lifetime Team and Individual Sports Instruction | 3 |
| HPER 22481 | Theory and Fundamentals of Coaching Soccer | 2 |
| HPER 22482 | Theory and Fundamentals of Coaching Baseball | 2 |
| HPER 22483 | Theory and Fundamentals of Coaching Track and Field | 2 |
| HPER 22484 | Theory and Fundamentals of Coaching Basketball | 2 |
| HPER 22485 | Theory and Fundamentals of Coaching Football | 2 |
| HPER 22486 | Theory and Fundamentals of Coaching Volleyball | 2 |
| HPER 22529 | Theory and Fundamentals of Strength and Conditioning/Personal Training | 3 |
| HPER 22532 | Exercise Testing, Prescription, and Analysis of Cardiac Function | 3 |
| HPER 22556 | Health in the Later Years | 3 |
| POLS 34308 | Public Policy | 3 |
| POLS 34332 | Principles of Public Administration | 3 |
| PSYC 08325 | Sport Psychology | 3 |
| REC 45321 | Exploring Recreation Resources | 3 |
| REC 45365 | Leisure and Aging | 3 |
| REC 45511 | Golf Course Maintenance and Management | 2 |
| REC 45512 | Aquatic Facility Maintenance and Management | 2 |
| REC 45513 | Outdoor Recreation Facilities Maintenance and Management | 2 |
| REC 45547 | Grant Writing | 3 |

COM 29225 fulfills a Northwest Core requirement as well as an elective requirement for Setting IV—Sport Management, but the credit hours for the class may be counted only once toward the total number of credit hours required for graduation.

Free electives as needed to reach minimum 120 graduation hours

Recreation Minor, 24 hours

CIP: 310101

Requirements

Required Courses (24 hours)

| | | |
|-----------|---|---|
| REC 45240 | Foundations of Recreation | 3 |
| REC 45245 | Leisure Services and Special Populations | 3 |
| REC 45340 | Recreational Programs | 3 |
| REC 45443 | Techniques of Recreation Leadership | 3 |
| REC 45444 | Outdoor Recreation/Education | 3 |
| REC 45446 | Introduction to Research Methods and Evaluation of Leisure Services | 3 |
| REC 45450 | Field Experience in Recreation and Park Management | 3 |
| REC 45546 | Administration of Recreation | 3 |

Adapted and Recreational Gardening Minor, 24-25 hours

CIP: 010605

This is an interdisciplinary minor in conjunction with the School of Health Science and Wellness and the School of Agriculture.

Employers are seeking employees who are able to care for community gardens, courtyards, and sensory garden spaces. Many of these are located in Assisted Living, Long Term Care, Community Gardens, Residential Treatment Centers, etc. This interdisciplinary minor is designed to increase student skills and knowledge of inclusive recreational gardening through the provision of profession-based learning opportunities. This minor is most beneficial to students pursuing careers that include human service, gerontology, parks and recreation, disabilities, and horticulture.

Requirements

Required Courses (16 hours)

| | | |
|------------|--|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| | OR | |
| AGRI 03130 | Plant Science✓ | 4 |
| REC 45245 | Leisure Services and Special Populations | 3 |
| REC 45243 | Introductions to Therapeutic Recreation | 3 |
| AGRI 03385 | Greenhouse Crop Production | 3 |
| AGRI 03388 | Fruit and Vegetable Crop Production | 3 |

Options (8-9 hours)

Select 8-9 hours from the courses below:

| | | |
|------------|---|---|
| REC 45216 | Gerontology | 3 |
| REC 45365 | Leisure and Aging | 3 |
| REC 45461 | Therapeutic Recreation Interventions with the Elderly | 3 |
| HPER 22556 | Health in the Later Years | 3 |
| BIOL 04261 | Local Flora | 2 |
| AGRI 03382 | Woody Landscape Plants | 3 |
| | Advisor-approved electives in agronomy/horticulture | 3 |

Interdisciplinary Minor in Aging Studies, 24 hours

CIP: 301101

Requirements

Required Courses (15 hours)

| | | |
|------------|--------------------------------------|---|
| HPER 22556 | Health in the Later Years | 3 |
| REC 45216 | Gerontology | 3 |
| REC 45315 | Social Aspects of Aging and Families | 3 |

| | | |
|-----------|--------------------|---|
| REC 45365 | Leisure and Aging | 3 |
| REC 45469 | Practicum in Aging | 3 |

Minor Coordinator Approved Electives (9 hours)

In addition, 9 hours of related coursework, as approved by the Minor Advisor, in interdisciplinary areas such as Business, Recreation, Psychology, Communication, Humanities, Natural Sciences, Agriculture, and Fine Arts are required.

Advisor-approved electives 9

The core required courses in this minor are offered during the summer in an online format to assist in completion of the minor in a timely manner. The Practicum in Aging course requires 150 hours of direct interaction with older adults applying what has been learned in aging courses. Enrollment in the Practicum in Aging course is limited to students who have completed a minimum of 9 hours of the 15 required course hours in the minor.

Sport Psychology Interdisciplinary Minor, 24 hours

CIP: 310508

Requirements**Required Courses (12 hours)**

| | | |
|------------|--|---|
| PSYC 08234 | Research Literacy | 3 |
| PSYC 08325 | Sport Psychology | 3 |
| HPER 22254 | Anatomy and Physiology | 3 |
| HPER 22512 | Socio-Psychological Aspects of Human Performance | 3 |

Select six hours from each of the categories below to total twelve hours (12 hours):

Exercise Science

select six hours from the following list:

| | | |
|------------|--|---|
| HPER 22332 | Physiology of Exercise | 3 |
| HPER 22336 | Basic Biomechanics | 3 |
| HPER 22382 | Care and Prevention of Athletic Injuries | 3 |
| HPER 22555 | Intervention and Strategies for Health Behavior Change | 3 |
| NUTR 47234 | Nutrition and Diet Behavior | 3 |

Psychology

select six hours from the following list:

| | | |
|------------|--------------------------------|---|
| PSYC 08212 | Personal Adjustment | 3 |
| PSYC 08223 | Abnormal Psychology | 3 |
| PSYC 08315 | Psychology of Groups and Teams | 3 |
| PSYC 08363 | Psychology of Personality | 3 |
| PSYC 08365 | Social Psychology | 3 |
| PSYC 08438 | Principles of Counseling | 3 |

Sport Management Interdisciplinary Minor, 24 hours

CIP: 310504

This is an interdisciplinary minor in conjunction with the Booth School of Business and the School of Health Science and Wellness.

Requirements**Required Courses (18 hours)**

| | | |
|------------|--------------------------|---|
| MGMT 54310 | Business Communication | 3 |
| MGMT 54313 | Principles of Management | 3 |
| MGMT 54345 | Sport Management | 3 |
| MKTG 55330 | Principles of Marketing | 3 |
| HPER 22515 | Issues in Sport | 3 |

| | | |
|-----------|--|---|
| REC 45450 | Field Experience in Recreation and Park Management | 3 |
| | OR | |
| REC 45455 | Field Experience in Sport Management | 3 |

Choose two from the following (6 hours):

| | | |
|------------|--|---|
| REC 45440 | Recreation Operations Management | 3 |
| REC 45525 | Commercial Recreation | 3 |
| REC 45533 | Recreation Sports Management | 3 |
| HPER 22512 | Socio-Psychological Aspects of Human Performance | 3 |

Note: One advisor-approved course (300-level or above) can be substituted for one of the above courses.

Adapted and Recreational Gardening Certificate, 16 hours**CIP: 010605**

This is an interdisciplinary certificate in conjunction with the School of Health Science and Wellness and the School of Agriculture.

Employers are seeking employees who are able to care for community gardens, courtyards and sensory garden spaces. Many of these are located in Assisted Living, Long Term Care, Community Gardens, Residential Treatment Centers, etc. This interdisciplinary certificate is designed to increase student skills and knowledge of inclusive recreational gardening through the provision of profession-based learning opportunities. This certificate offers students a way to document basic skills to potential employers and is most beneficial to students pursuing careers that include human service, gerontology, parks and recreation, disabilities, and horticulture.

Certificate must be completed with a Bachelor's degree; it is not a stand-alone program.

Requirements**Required Courses (16 hours)**

Completion of all of the listed required courses. Students seeking to earn the Adapted and Recreational Gardening Certificate must complete a minimum of 9 unique hours outside of their major requirements.

| | | |
|------------|--|---|
| BIOL 04112 | General Botany | 3 |
| BIOL 04113 | General Botany Laboratory | 1 |
| | OR | |
| AGRI 03130 | Plant Science✓ | 4 |
| REC 45243 | Introductions to Therapeutic Recreation | 3 |
| REC 45245 | Leisure Services and Special Populations | 3 |
| AGRI 03385 | Greenhouse Crop Production | 3 |
| AGRI 03388 | Fruit and Vegetable Crop Production | 3 |

Division of Behavioral Sciences

Assistant Director: Alisha Francis

Faculty: Amy Barton, Jessica Cascio, Keely Cline, Sarah Creason, Elizabeth Dimmitt, Alisha Francis, Giselle Greenidge, Shelly Hiatt, Amy Hillard, Cris Jacobson, Jackie Kibler, Lauren Leach-Steffens, Jason McCain, Chase O'Gwin, Kyoung-Ho Shin, Michele Veasey

Mission

The Division of Behavioral Sciences focuses on Student Success in Career, Academics and Personal Development.

Vision

We will facilitate comprehensive professional student-centered and challenging learning within the university environment.

Values

The Division of Behavioral Sciences values:

- Critical thinking and scientific mentality
- Professionalism and professional ethics
- Student organizations and student research
- Personal responsibility
- Collegiality and professional networks

Degree Programs

Majors develop research and writing skills, problem solving and higher-order thinking ability related to analyzing, synthesizing, and evaluating information. Majors find jobs in administrative support, public affairs, education, business, sales, helping professions, service industries, health, the biological sciences, and computer programming. Many work as employment counselors, corrections counselor trainees, interviewers, personnel analysts, probation officers, and writers. Many Majors also attend graduate school.

Behavioral Sciences Majors cannot use any Behavioral Sciences courses to fulfill both major and minor requirements. For courses that are common to both the major and minor, advisor-approved and reasonable electives must be used to fill the minor requirement. Work closely with your advisor to assure that you are adhering to this policy.

Test out is not available for any course offered by the division.

Exit Requirement

All graduating seniors with the exception of biology/psychology, industrial/organizational psychology, and Human Services majors must take the senior assessment prior to graduation approval.

Human Services Major, 45 hours: B.S.—Minor Required

CIP: 422707

This major can be used as a pre-professional or terminal degree, depending on the student's needs. Student should consult with their academic advisor, who can assist in course selection.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (39 hours)

| | | |
|------------|--------------------------------|---|
| PSYC 08103 | General Psychology✓ | 3 |
| SOC 35101 | General Sociology✓ | 3 |
| MATH 17114 | General Statistics✓ | 3 |
| PSYC 08204 | Introduction to Human Services | 3 |
| PSYC 08313 | Psychology at Work | 3 |
| PSYC 08315 | Psychology of Groups and Teams | 3 |
| PSYC 08330 | The Family | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |

| | | |
|------------|--|---|
| PSYC 08335 | Introduction to Case Management | 3 |
| PSYC 08438 | Principles of Counseling | 3 |
| PSYC 08495 | Field Placement/Internship | 3 |
| SOC 35337 | Race and Ethnic Issues in Modern Society | 3 |
| SOC 35450 | Research Methods in Social Sciences | 3 |

Take six hours of approved Behavioral Sciences electives (6 hours)

NOTE: If any courses in this program are also used to fulfill a Northwest Core Requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Psychology Major, 45 hours: B.S.—Minor Required

CIP: 420101

The Psychology major helps students develop the knowledge, skills, and abilities necessary to engage in critical thinking in a wide range of situations in order to understand people from multiple perspectives and apply that understanding.

This program has an online-only option.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)

Required Courses (45 hours)

| | | |
|------------|-------------------------------|---|
| PSYC 08103 | General Psychology✓ | 3 |
| PSYC 08223 | Abnormal Psychology | 3 |
| PSYC 08234 | Research Literacy | 3 |
| PSYC 08253 | Theories of Psychology | 3 |
| PSYC 08260 | Career Paths and Preparations | 3 |
| PSYC 08310 | Cognitive Psychology | 3 |
| PSYC 08313 | Psychology at Work | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |
| PSYC 08334 | Research Methods I | 3 |
| PSYC 08343 | Biological Psychology | 3 |
| PSYC 08353 | Psychology of Race and Gender | 3 |
| PSYC 08363 | Psychology of Personality | 3 |
| PSYC 08365 | Social Psychology | 3 |
| PSYC 08444 | Research Methods II | 3 |
| MATH 17114 | General Statistics✓ | 3 |

If a course in this program is also used to fulfill a Northwest Core requirement or a requirement in another program, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours

Psychology Major, 45 hours: B.A.—Minor Required

CIP: 420101

The Psychology major helps students develop the knowledge, skills, and abilities necessary to engage in critical thinking in a wide range of situations in order to understand people from multiple perspectives and apply that understanding.

Requirements

The Northwest Core (44-47 hours)

Institutional Requirements (4 hours)**B.A. Modern Language Requirement (9 hours)**

Modern Language

9

All 9 hours must be in the same language

Required Courses (45 hours)

| | | |
|------------|-------------------------------|---|
| PSYC 08103 | General Psychology✓ | 3 |
| PSYC 08223 | Abnormal Psychology | 3 |
| PSYC 08234 | Research Literacy | 3 |
| PSYC 08253 | Theories of Psychology | 3 |
| PSYC 08260 | Career Paths and Preparations | 3 |
| PSYC 08310 | Cognitive Psychology | 3 |
| PSYC 08313 | Psychology at Work | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |
| PSYC 08334 | Research Methods I | 3 |
| PSYC 08343 | Biological Psychology | 3 |
| PSYC 08353 | Psychology of Race and Gender | 3 |
| PSYC 08363 | Psychology of Personality | 3 |
| PSYC 08365 | Social Psychology | 3 |
| PSYC 08444 | Research Methods II | 3 |
| MATH 17114 | General Statistics✓ | 3 |

If any courses in this program are also used to fulfill a Northwest Core requirement, the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Minor requirements and/or free electives as needed to reach minimum 120 graduation hours**Biology/Psychology Comprehensive Major, 70-77 hours: B.S.—No Minor Required**

CIP: 422706

This major allows students to complete individual programs of study arranged by advisors in the Department of Natural Sciences and Behavioral Sciences. While requiring students to complete half their class work as advised by each department, the number of elective hours gives this 70-77 hour program of study flexibility that allows students to tailor the major to their individual and specific academic needs. This program provides interdisciplinary training for a future career and/or graduate-level training in psychology, biology, allied health, or related fields. Students are urged to see advisors in both disciplines at an early date to contract a program of study.

Requirements**The Northwest Core (44-47 hours)**

Must include the following:

| | | |
|------------|-----------------------------------|---|
| BIOL 04106 | Principles of Biology✓ | 3 |
| BIOL 04107 | Principles of Biology Laboratory✓ | 1 |
| CHEM 24114 | General Chemistry I✓ | 3 |
| CHEM 24115 | General Chemistry I Laboratory✓ | 1 |
| PSYC 08103 | General Psychology✓ | 3 |
| MATH 17114 | General Statistics✓ | 3 |

Institutional Requirements (4 hours)**Required Courses for Biology (17 hours)**

| | | |
|------------|--------------------------------|---|
| BIOL 04114 | General Zoology | 3 |
| BIOL 04115 | General Zoology Laboratory | 1 |
| BIOL 04238 | Physiology Allied Health OR | 4 |

| | | |
|--|-------------------------------------|---|
| BIOL 04330 | Animal Anatomy and Physiology OR | 4 |
| BIOL 04438 | Human Physiology | 4 |
| BIOL 04310 | Cell Biology | 4 |
| BIOL 04350 | Genetics | 4 |
| BIOL 04491 | Biological Science Seminar | 1 |
| BIOL 04491: Must take Biology ACAT in this course. | | |

Biology Electives (7-10 hours)

Choose two courses

| | | |
|------------|----------------------|---|
| BIOL 04104 | Medical Terminology | 3 |
| BIOL 04140 | General Microbiology | 4 |
| BIOL 04418 | Vertebrate Histology | 5 |
| BIOL 04436 | Human Anatomy | 4 |
| BIOL 04440 | Molecular Biology | 4 |
| BIOL 04444 | Immunology | 5 |

Psychology Requirements (18 hours)

| | | |
|------------|--------------------------------|---|
| PSYC 08223 | Abnormal Psychology | 3 |
| PSYC 08234 | Research Literacy | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |
| PSYC 08334 | Research Methods I | 3 |
| PSYC 08343 | Biological Psychology | 3 |
| PSYC 08443 | Advanced Biological Psychology | 3 |

Psychology Electives (6 hours)

Choose two courses from these or other approved courses

| | | |
|------------|--------------------------------------|---|
| PSYC 08310 | Cognitive Psychology | 3 |
| PSYC 08323 | Child and Adolescent Psychopathology | 3 |
| PSYC 08335 | Introduction to Case Management | 3 |
| PSYC 08344 | Drugs, Brain, and Behavior | 3 |
| PSYC 08353 | Psychology of Race and Gender | 3 |
| PSYC 08363 | Psychology of Personality | 3 |
| PSYC 08370 | Applied Behavior Analysis | 3 |
| PSYC 08383 | Psychology of Aging | 3 |
| PSYC 08438 | Principles of Counseling | 3 |
| PSYC 08365 | Social Psychology | 3 |

Collateral Requirements (16-18 hours)

| | | |
|------------|------------------------------------|---|
| MATH 17117 | Precalculus✓ OR | 5 |
| MATH 17118 | Precalculus Algebra✓ OR | 3 |
| MATH 17120 | Calculus I | 4 |
| CHEM 24116 | General Chemistry II | 4 |
| CHEM 24117 | General Chemistry II Laboratory | 1 |
| CHEM 24242 | Organic Chemistry | 3 |
| CHEM 24243 | Organic Chemistry Laboratory OR | 1 |
| CHEM 24342 | Organic Chemistry I | 3 |
| CHEM 24343 | Organic Chemistry I Laboratory | 1 |
| PHYS 25110 | General Physics I✓ | 3 |
| PHYS 25111 | General Physics I Laboratory✓ | 1 |

Collateral Electives (6-8 hours)

(choose two)

| | | |
|------------|--|---|
| CHEM 24344 | Organic Chemistry II | 3 |
| CHEM 24362 | Elementary Biochemistry | 3 |
| CHEM 24363 | Elementary Biochemistry Laboratory OR | 1 |
| CHEM 24562 | General Biochemistry | 3 |
| PHYS 25112 | General Physics II | 3 |
| PHYS 25113 | General Physics II Laboratory | 1 |

Free electives as needed to reach minimum 120 graduation hours

Psychology Minor, 24 hours

CIP: 420101

Requirements

Required Courses (18 hours)

| | | |
|------------|---------------------------|---|
| PSYC 08234 | Research Literacy | 3 |
| PSYC 08310 | Cognitive Psychology | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |
| PSYC 08343 | Biological Psychology | 3 |
| PSYC 08363 | Psychology of Personality | 3 |
| PSYC 08365 | Social Psychology | 3 |

Take six hours of approved Psychology electives (6 hours)

Child and Family Studies Minor, 24 hours

CIP: 190701

Requirements

Required Courses (24 hours)

| | | |
|------------|-----------------------------------|---|
| PSYC 08312 | Child Psychology | 3 |
| PSYC 08333 | Developmental Psychology✓ | 3 |
| PSYC 08331 | People, Money, and Psychology | 3 |
| PSYC 08335 | Introduction to Case Management | 3 |
| PSYC 08405 | Parenthood Education | 3 |
| PSYC 08330 | The Family | 3 |
| SOC 35443 | Family Problems in Modern Society | 3 |
| | Behavioral Sciences elective | 3 |

Sport Psychology Interdisciplinary Minor, 24 hours

CIP: 310508

Requirements

Required Courses (12 hours)

| | | |
|------------|--|---|
| PSYC 08234 | Research Literacy | 3 |
| PSYC 08325 | Sport Psychology | 3 |
| HPER 22254 | Anatomy and Physiology | 3 |
| HPER 22512 | Socio-Psychological Aspects of Human Performance | 3 |

Select six hours from each of the categories below to total twelve hours (12 hours):

Exercise Science

select six hours from the following list:

| | | |
|------------|--|---|
| HPER 22332 | Physiology of Exercise | 3 |
| HPER 22336 | Basic Biomechanics | 3 |
| HPER 22382 | Care and Prevention of Athletic Injuries | 3 |

| | | |
|------------|--|---|
| HPER 22555 | Intervention and Strategies for Health Behavior Change | 3 |
| NUTR 47234 | Nutrition and Diet Behavior | 3 |

Psychology

select six hours from the following list:

| | | |
|------------|--------------------------------|---|
| PSYC 08212 | Personal Adjustment | 3 |
| PSYC 08223 | Abnormal Psychology | 3 |
| PSYC 08315 | Psychology of Groups and Teams | 3 |
| PSYC 08363 | Psychology of Personality | 3 |
| PSYC 08365 | Social Psychology | 3 |
| PSYC 08438 | Principles of Counseling | 3 |

Sociology Minor, 24 hours

CIP: 451101

The sociology minor is compatible with many different majors, as coursework examines the underlying patterns of society and human relationships across social institutions, human services, and communities.

Requirements**Required Courses (18 hours)**

| | | |
|-----------|--|---|
| SOC 35101 | General Sociology✓ | 3 |
| SOC 35230 | Social Problems | 3 |
| SOC 35316 | Urban Sociology | 3 |
| SOC 35330 | Social Stratification | 3 |
| SOC 35337 | Race and Ethnic Issues in Modern Society | 3 |
| SOC 35450 | Research Methods in Social Sciences | 3 |

SOC 35101 may fulfill a Northwest Core requirement as well as a requirement of this minor, but the number of credit hours may be counted only once toward the total number of credit hours required for graduation.

Select six hours from the following list of approved electives (6 hours)

| | | |
|------------|---------------------------------|--------|
| PSYC 08330 | The Family | 3 |
| SOC 35321 | Criminology | 3 |
| SOC 35323 | Deviant Behavior | 3 |
| SOC 35375 | Police and Society | 3 |
| SOC 35380 | Sociology of Health and Illness | 3 |
| SOC 35455 | Sociological Theory | 3 |
| SOC 35479 | Independent Study in Sociology | 1 to 3 |

Courses

ACCT - Accounting

ACCT 51201 - Accounting I (3)

A beginning course in the principles and theory of accounting.

ACCT 51202 - Accounting II (3)

A continuation of ACCT 51201, with the partnership and corporation as forms of business organizations emphasized. Prerequisite: ACCT 51201 with a minimum grade of C.

ACCT 51301 - Cost Accounting (3)

An introductory course in the principles and theory of cost accounting, with an emphasis on managerial decision support. The focus is on deriving accounting information from various costing systems, and preparation, interpretation, and analysis of various reports, including use of spreadsheets. Prerequisite: ACCT 51202 with a minimum grade of C.

ACCT 51303 - Individual Taxation (3)

A study of Federal income tax compliance and tax planning for individuals and small businesses. Prerequisite: ACCT 51202 with a minimum grade of C.

ACCT 51304 - Business Taxation (3)

A study of Federal income tax compliance and planning for partnerships, corporations, S corporations, estates and trusts. Prerequisite: ACCT 51202 with a minimum grade of C.

ACCT 51306 - Intermediate Accounting I (3)

An in-depth study of accounting procedures followed in the recording and controlling of assets and liabilities. Prerequisite: ACCT 51202 with a minimum grade of C.

ACCT 51307 - Intermediate Accounting II (3)

A continuation of Intermediate Accounting I. Topics covered include investments, liabilities, income taxes, pensions, leases, contributed capital and the statement of cash flows. Prerequisite: ACCT 51306 with a minimum grade of C.

ACCT 51308 - Accounting Information Systems (3)

This is a course designed to give students a basic understanding of accounting systems, systems design and the organization of accounting data. Prerequisites: ACCT 51306 with a minimum grade of C and CSIS 44130.

ACCT 51401 - Intermediate Accounting III (3)

Covers governmental and not-for-profit accounting, partnerships, earnings per share, accounting changes and error correction, and other miscellaneous financial accounting topics. Prerequisite: ACCT 51306 with a minimum grade of C.

ACCT 51402 - Advanced Cost Accounting (3)

A course in cost identification, reporting, forecasting interpretation, and management of costs. Emphasis is on how costs and revenues are allocated to multiple products and services. Also includes an exposure to ethical considerations in relevant cost decisions. This is a continuation of ACCT 51301 Cost Accounting. Prerequisite: ACCT 51301 with a minimum grade of C.

ACCT 51403 - Advanced Accounting (3)

Provides a study of consolidated financial statements, and international accounting. Prerequisite: ACCT 51307 with a minimum grade of C.

ACCT 51404 - Auditing (3)

A study of generally accepted auditing standards and procedures. Prerequisite: ACCT 51307 with a minimum grade of C.

ACCT 51405 - Intern in Accounting (1 to 3)

Accounting majors may, with approval from the School Director, enroll in an internship section. This is recommended for students with junior or senior standing. This course is repeatable for new experience.

ACCT 51408 - Managerial Accounting (3)

A study is made of interpretation of accounting data, and the controlling and planning of business activities through the use of that data. This is a course for non-accounting majors. Prerequisites: ACCT 51202, MGMT 54313, FIN 53324 and MKTG 55330.

ACCT 51409 - Independent Study in Accounting (1 to 3)

Accounting majors may, with approval from the School Director, enroll in an independent study section. The approval must be received during the term preceding enrollment. This course is repeatable with topics changing.

AGRI - Agriculture**AGRI 03100 - Special Offering (1 to 4)****AGRI 03199 - World Foods (3)**

This course will examine the geographic, historic, economic, religious, agricultural, and cultural factors influencing food production, consumption, and availability.

AGRI 03200 - Special Offering (1 to 4)**AGRI 03300 - Special Offering (1 to 3)****AGRI 03396 - Agricultural Advocacy (3)**

This course is designed to prepare students to be advocates for the agricultural industry. Students will gain an ability to recognize and understand various public perspectives regarding the agricultural industry. Students will learn to develop and disseminate material to inform the public concerning the nature of plant and animal production. Prerequisite: Junior standing or permission of instructor. (F, S)

AGRI 03400 - Special Offering (1 to 4)**AGRI 03500 - Special Offering (1 to 4)****Agricultural Economics****AGRI 03102 - Principles of Microeconomics in Agriculture (3)**

Principles of production, supply and demand are applied to economic problems of agriculture and agriculturally related industries. Emphasis is placed on understanding the theoretical underpinnings of decision analysis within the biological, institutional and structural parameters of the agricultural sector. (F, S) (MOTR ECON 102A)

AGRI 03301 - Professional Selling in Agriculture (3)

The course is designed to introduce students to professional sales techniques used in the agriculture industry. Focus will be placed on developing professional selling techniques for specialized agricultural products and characteristics of the customers purchasing these specialized products. Topics include methods of selling, steps and techniques in

the selling process, customer service, sales ethics, consumer behavior concepts, and sales management in agriculture. Prerequisite: AGRI 03102.

AGRI 03302 - Agricultural Marketing (3)

A course surveying the nature of production, the marketing system, and the market for farm products, market functions and institutions' commodity problems. Prerequisite: AGRI 03102. (F)

AGRI 03304 - Farm Management and Record Analysis (3)

Economic principles applied to the organization and operation of farms, complete and partial budgeting, farm record analysis, farm financial management and problems involving farm decision-making. Prerequisite: AGRI 03102. (F, S)

AGRI 03305 - Rural Real Estate Appraisal (3)

The classification and valuation of real estate using the sales, income, cost and productivity methods. Student will collect and analyze field data needed for the appraisal process. Prerequisite: AGRI 03102 or ECON 52151.

AGRI 03307 - Farm Business Records (3)

An application and examination of accounting principles applied to the issues and unique situations that occur in the agricultural industry. Double-entry accounting is emphasized. An accrual-adjusted system based on cash-basis accounting which is the most prevalent accounting system used in agricultural operations is utilized to provide more accurate information to measure profitability. Prerequisites: AGRI 03304 and ACCT 51201 or permission of instructor.

AGRI 03308 - Agricultural Data Analysis (3)

A study of the application of computers to agricultural problems and the utilization of the EDP Systems as a farm management tool. Prerequisite: completion of digital literacy competency and MATH 17118.

AGRI 03309 - Applied Futures Marketing (3)

A course designed to familiarize the students with the composition of the futures and cost markets, how the cash and futures markets are related, chart reading to determine trends, basis formations, hedging and speculation. (F, S)

AGRI 03404 - Livestock Marketing (2)

Economic analysis of marketing livestock products from the standpoint of producers, processors, distributors; also evaluation and pricing of meat animals.

AGRI 03407 - Agricultural Finance (3)

Financial requirements of the individual farm firm, capital budgeting, principles of debt and equity fund acquisition, cash flow analysis and evaluation of credit needs. Farm credit institutions are studied. Prerequisite: AGRI 03304. (F, S)

AGRI 03408 - Professional Farm Management (3)

The effects of goals, values and resource availability upon management decisions. The farm production planning decisions will be determined by economic and financial analysis using a linear programming model. A long-run plan will be developed by each student. Other farm management computer applications are also covered. Prerequisite: AGRI 03304.

AGRI 03409 - Independent Study in Agricultural Economics (1 to 3)

For students who wish to intensify, enrich or specialize in the area of agricultural economics. Consent of instructor necessary. Course is repeatable with topic change for a total of 3 hours. (F, S, SS)

AGRI 03502 - Agricultural Prices (3)

A study of the factors affecting prices of agricultural products; longtime cyclical, seasonal and other price movements; sources of information relating to production and demand factors; government activities as they relate to prices of agricultural products, and problems of price analysis and forecasting. Prerequisite: AGRI 03102 and AGRI 03302. (F, S)

AGRI 03503 - Agricultural Law (3)

The farmer's legal setting, deeds, mortgages, leases, water and fencing rights, easements, estate planning and other aspects. (F, S)

AGRI 03504 - Futures Trading (3)

An advanced course designed to provide an in-depth treatment of how the futures market is used throughout the marketing chain from farm production to end product use. Includes extensive study of the more technical aspects of charting and how to use these techniques as price forecasting tools. Prerequisite: AGRI 03309 OR graduate standing. (S)

AGRI 03505 - Agricultural Resource Economics (3)

Physical, economic and institutional factors that affect the role of land in economic life; population and resource requirements; principles of land utilization; returns from land; land value; property rights and tenure rights; social controls; and rural and urban land development. Prerequisite: AGRI 03102.

AGRI 03508 - Agriculture Policy (3)

An analysis and history of the current economic problems of agriculture with emphasis on the influence of governmental policies. A term paper will be required. Prerequisite: AGRI 03102. (F, S)

AGRI 03509 - Problems in Agricultural Economics (1 to 3)

Studies in the area of agricultural economics. Consent of instructor necessary. Course is repeatable with topic change for a total of 3 hours. (F, S, SS)

AGRI 03598 - Advanced Agricultural Applications of Computers and GPS (3)

A study of the use of statistical analysis and mathematical models in the agricultural business decision-making process. Prerequisites: MATH 17114 or MATH 17610, CSIS 44130 or AGRI 03308.

Agricultural Mechanization**AGRI 03112 - Agricultural Mechanics (4)**

Topics include hot and cold metal work, arc and oxyacetylene welding, tool care and use, woodworking, concrete, engines and machinery management. (F, S)

AGRI 03312 - Agricultural Welding (2)

A course designed to combine the basic fundamentals of electric arc and oxyacetylene welding with application to actual farm conditions using farm machinery and materials.

AGRI 03419 - Independent Study in Agricultural Mechanization (1 to 3)

For students who wish to intensify, enrich or specialize in the study of agricultural mechanization. Consent of instructor necessary. Course is repeatable with topic change for a total of 3 hours. (F, S, SS)

AGRI 03510 - Techniques in Agricultural Surveying (3)

Water management on the farm as it relates to maintaining soil productivity. Includes

surveying, design, and layout of soil conservation engineering practices, such as waterways, diversions, terraces, farm ponds and drainage systems.

AGRI 03518 - Agricultural Drainage and Irrigation (3)

A study of the needs for drainage and irrigation in agriculture including the design and application of drainage and irrigation systems under various conditions.
Prerequisite: AGRI 03234.

AGRI 03519 - Problems in Agricultural Mechanization (1 to 3)

Studies in the area of specialization of agricultural mechanization arranged with a member of the faculty. Consent of instructor necessary. Course is repeatable with topic change for a total of 3 hours. (F, S, SS)

Agricultural Education

AGRI 03320 - Foundations of Agricultural Education (3)

A course dealing with the history and future of education in agriculture and what is included in an agricultural education program, with emphasis on leadership training and the FFA. Professional organizations are also included. (F)

AGRI 03420 - Program Planning in Agricultural Education (3)

Curriculum construction in agricultural education, preparation of audio-visual aids, summer programs and the development of departmental and FFA programs of activities.
Prerequisite: AGRI 03320 and admittance to Teacher Education. (F)

AGRI 03421 - Conducting Supervised Agriculture Experience Programs (2)

A course dealing with the experience program requirements of the students in high school agriculture. How to plan, organize, evaluate and carry out the SAE programs.
Prerequisite: Admittance to Teacher Education. (F)

AGRI 03422 - Community Programming in Agriculture (2)

Designed to meet the needs of leaders in adult education within the agricultural community. Emphasis on establishing community relations/education in adult agricultural programs, determining needs, gathering resources, and methods of instruction with the adult student. (S)

AGRI 03429 - Independent Study in Agricultural Education (1 to 3)

For students who wish to intensify, enrich or specialize in the study of any aspect of agricultural education with members of the staff. Consent of instructor necessary. Course is repeatable with topic change for a total of 3 hours. (F, S, SS)

AGRI 03524 - Methods of Instruction and Assessment in Agricultural Education Laboratories (2)

Methods of teaching and assessment, conducting, managing, and maintaining agricultural education program laboratories. How to analyze data and plan facilities and curriculum; select tools, equipment, and supplies; organize course content and facilities as applied to agricultural laboratories. (S)

AGRI 03525 - Induction Year Beginning Teacher I (2)

A continuing education course for the professional development of first-year teachers of agriculture. Course focuses on the pedagogical knowledge, skills, attitudes, and managerial skills needed by beginning teachers of agriculture.

AGRI 03527 - Induction Year Beginning Teacher II (2)

A continuing education course for the professional development of second-year teachers of agriculture. Focus is on the pedagogical knowledge, skills, attitudes, and managerial skills needed by beginning teachers of agriculture. (SS)

AGRI 03529 - Problems in Agricultural Education (1 to 3)

Studies in the area of agricultural education. Consent of instructor necessary. Course is repeatable with topic change. (F, S, SS)

AGRI 03580 - Methods of Instruction and Assessment in Agricultural Education (2)

A course in the special methods and materials of teaching agriculture, with an emphasis on teaching strategies and assessment of student progress utilizing student data. Prerequisite: Admittance to Teacher Education. (F)

Agricultural Science

AGRI 03296 - Seminar (1)

A course designed for presenting papers and discussion of problems as well as research in agriculture. (F, S)

AGRI 03393 - U.S. Agriculture Travel Experience (1 to 3)

Exploration of agronomic, horticultural, livestock and economic principles including sustainable and best management practices, agricultural marketing, food quality, and food safety as they apply to conventional and organic agricultural systems within the United States. Domestic travel required. Course is repeatable for new experience for a total of 3 hours. Prerequisite: sophomore standing or permission of instructor.

AGRI 03498 - Agriculture Occupations Internship (3 to 6)

Supervised program of applied management practices, policies and procedures within areas of agricultural business occupations. Course may be repeated for additional experience, new material and progression of study for a total of 6 hours. Prerequisite: Consent of advisor necessary. (F, S, SS)

AGRI 03499 - Profession Based Integrated Experience (1)

A course designed to integrate the fundamental coursework elements of the student's major into a professions based experience. Those skills will be applied to develop a solution to a contemporary problem/issue associated with the major. Prerequisite: Senior standing and permission of instructor. (F, S)

AGRI 03590 - International Agriculture Travel Experience (3)

Exploration of agronomic, horticultural, livestock and economic principles including sustainable and best management practices, agricultural marketing, food quality, and food safety as they apply to conventional and organic agricultural systems abroad. International travel required. Prerequisite: sophomore standing or permission of instructor.

Agronomy

AGRI 03130 - Plant Science (4)

A survey course that covers fundamentals of structure, function and environmental interactions of higher plants. The application of science to the study and utilization of plants is examined. Three hours of lecture and a two-hour laboratory per week. (F, S) (MOTR BIOL 150LB)

AGRI 03232 - Crop Production (3)

A study of how current technology, along with principles of adaptation, development and culture are applied to the production of agronomic and other crops. Prerequisites: AGRI 03130, or BIOL 04102 and BIOL 04103, or BIOL 04106 and BIOL 04107, or BIOL 04112 and BIOL 04113. (F, S)

AGRI 03234 - Fundamentals of Soil Science (4)

Characterization of soils as a natural resource emphasizing their physical, chemical, mineralogical, and biological properties in relation to plant growth, land-use management, soil and water quality, and food production. Prerequisites: CHEM 24112 and CHEM 24113 or CHEM 24114 and CHEM 24115 or permission of instructor. (F, S)

AGRI 03238 - Techniques of Crop Scouting (1 to 2)

A hands-on practical workshop course designed to provide the student with the primary skills needed to do soil sampling and pest identification. Pest management strategies and elemental GIS utilization will also be included. (S)

AGRI 03292 - Introduction to Agricultural Pesticides (3)

A study of pesticide use and principles of their regulation, application, efficacy and environmental fate. Prerequisites: CHEM 24112 and CHEM 24113 or CHEM 24114 and CHEM 24115 or consent of instructor. (F)

AGRI 03330 - Forage Crop Science (3)

A detailed study of the culture, storage and utilization of the principal forage crops. Prerequisite: AGRI 03130, BIOL 04102 and BIOL 04103 or BIOL 04106 and BIOL 04107 recommended. (S)

AGRI 03331 - Integrated Crop Management (3)

This course will introduce students to various current issues in integrated crop management (ICM), including, but not limited to, water, nutrient, and pest management and the effect of these practices on sustainability and crop production. Potential approaches, challenges, and solutions to these diverse problems will be discussed. Prerequisites: AGRI 03232 and AGRI 03234.

AGRI 03332 - Soil Microbiology (3)

Introductory course in the fundamentals and principles of soil microbiology. Prerequisite: BIOL 04102 and BIOL 04103 or AGRI 03130 or AGRI 03234 or consent of instructor. (S)

AGRI 03336 - Crop Physiology (3)

A study of the physiological, nutritional and ecological aspects of crop growth and management. Prerequisite: AGRI 03130 or BIOL 04112 and BIOL 04113, CHEM 24112 and CHEM 24113 or CHEM 24114 and CHEM 24115 recommended. (F)

AGRI 03432 - Soil and Water Conservation (3)

Overview of national and global soil/water resources, historical and current soil erosion issues, governmental conservation programs, agricultural management techniques to protect natural resources: use of erosion prediction equations in soil and water management. Prerequisite: AGRI 03234. (F)

AGRI 03434 - Weed Science: Ecology and Control (3)

Study and evaluation of weed competition concepts and the current and evolving methods of weed management. Prerequisite: AGRI 03130 or BIOL 04112 and BIOL 04113. (F)

AGRI 03437 - Soil Judging (1)

Field experience in soil evaluation. Course may be repeated twice for a new experience for a total of 3 hours. Prerequisite: AGRI 03234.

AGRI 03438 - Advanced Crop Production (3)

A comprehensive course to understand and apply advanced agronomic thinking and decision-making with respect to crop production. Prerequisite: Must be a senior in last semester or school year prior to graduation. (S)

AGRI 03440 - Introduction to Precision Agriculture (3)

Overview of precision agriculture technologies and techniques, including soil sampling, global positioning and remote sensing: discussion of environmental, economic and agronomic benefits/limitations of technologies/techniques. (F, S)

AGRI 03442 - Practical Field Crops Evaluation (1)

Experience and practice in identification, agronomic calculations, and applications of

agronomic facts. Consent of instructor required. Prerequisite: AGRI 03232.

AGRI 03443 - Precision Agriculture for Production (3)

Understand sources of field variability and how it can be mapped using precision agriculture software. Understand different sources of variability and how to collect data to map and use application controllers to efficiently manage and apply inputs in a crop or pasture system. Prerequisite: AGRI 03440. (F)

AGRI 03444 - Precision Agriculture Services (3)

Develop an understanding of customers' needs when purchasing and applying crop inputs or precision agriculture services. Learn to communicate the benefits of managing water, spatial data requirements, estimating return on investment, and create a precision agriculture presentation for potential customers. Prerequisite: AGRI 03440. (S)

AGRI 03445 - Applied Research in Precision Agriculture (3)

Development and implementation of a practical research project in the application of precision agriculture technologies, such as GPS, GIS, and/or other agricultural technologies, to real world agricultural problems/situations. Project findings will be professionally presented to interested parties/faculty. Prerequisites: AGRI 03440, GEOG 32207 and GEOG 32365. (F, S)

AGRI 03448 - Principles of Spray Application and Technology (3)

A comprehensive course to understand the principles of spray applications and learn the importance of nozzle selection, tank mix properties, application parameters and technology resulting in successful spray applications. Prerequisite: AGRI 03292. (S)

AGRI 03449 - Independent Study in Agronomy (1 to 3)

For students who wish to intensify, enrich or specialize in the study of any aspect of agronomy under the direction of a staff member. Consent of instructor necessary. Course is repeatable with topic change for a total of 3 hours. (F, S, SS)

AGRI 03530 - Soil Formation and Classification (3)

Identification and evaluation of soil morphological characteristics; study of the

form and dynamics of soil bodies across the landscape and soil-forming factors and processes; introduction to pedological features used in Soil Taxonomy. Prerequisite: AGRI 03234. (F)

AGRI 03534 - Plant Breeding (3)

A study of the improvement of agricultural plants by application of the principles of heredity. Prerequisite: AGRI 03130 or BIOL 04112 and BIOL 04113. (F, S)

AGRI 03536 - Soil Fertility (3)

Principles of soil productivity and nutrients required for crop growth; fertilizer sources and nutrient reactions in soil; methods of fertilizer nutrient placement in major tillage systems; interpretation of soil test and plant analyses for determining crop nutrient requirements. Prerequisite: AGRI 03234. (S)

AGRI 03537 - Plant Genetics and Biotechnology (3)

The application of modern molecular techniques to crop improvement. A study of crop improvement and characterization of agricultural plants through the application of plant genetics, genomics, and biotechnology. Prerequisites: AGRI 03130, or BIOL 04102 and BIOL 04103, or BIOL 04106 and BIOL 04107.

AGRI 03539 - Soil Physics and Field Management (3)

A survey of soil physical properties and processes important to land stewardship. Prerequisite: AGRI 03234.

AGRI 03540 - Grain Crops (3)

This course uses systems concepts as the basis for studying humankind's most important crops. An integrative approach is taken in the examination of production processes, management strategies, and environmental issues. Prerequisite: 12 hours of agriculture. (F, odd years)

AGRI 03543 - Soil Chemistry: Environmental Quality and Plant Nutrition (3)

A comprehensive study of chemical processes in soil systems. Prerequisite: AGRI 03234 with a grade of C or better or instructor's consent.

AGRI 03549 - Problems in Agronomy (1 to 3)

Studies in the area of agronomy arranged with members of the staff. Consent of

instructor necessary. Course is repeatable with topics changing for a total of 3 hours. Prerequisite: AGRI 03234. (F, S, SS)

Animal Science

AGRI 03150 - Animal Science (4)

An introductory animal science course dealing with the meat animal and dairy industry. Includes basic principles of selection, nutrition, reproduction, anatomy, physiology, management, and an overview of the livestock industry. (F, S)

AGRI 03252 - Livestock Evaluation (3)

Develop skills in selecting animals for specific uses and develop ability to explain decisions and to accurately describe their reasons. Work will include beef cattle, sheep, swine and goat. Prerequisite: AGRI 03150. (F, S)

AGRI 03352 - Meat Science (3)

Muscle growth and composition, nutritional and health concerns, meat safety and advances in product development, preparation, and storage. Also carcass fabrication, processing and grading. Prerequisite: AGRI 03150. (F, S)

AGRI 03358 - Livestock Health and Disease Management (3)

An overview of common farm animal diseases including diagnosis, prevention and management. Prerequisite: AGRI 03150. (F, S)

AGRI 03360 - Principles of Animal Nutrition (3)

A study of the principles of animal nutrition and practical problems of feeding livestock. Prerequisite: AGRI 03150. (F)

AGRI 03362 - Anatomy and Physiology of Domestic Animals (3)

A study of the major physiology and anatomy of the major anatomical systems of the ruminant, monogastric, and fowl as related to their growth and production. Prerequisite: AGRI 03150. (F)

AGRI 03363 - Domestic Animal Behavior and Welfare (3)

An examination of animal behavior with emphases of objective measurement, interpretation, and application to improve welfare, native environments, and production management. Prerequisite: AGRI 03150.

AGRI 03365 - Artificial Insemination (1 to 3)

An artificial insemination course that will cover bovine reproductive anatomy, physiology, and insemination methods. The class will include an in-class portion as well as a hands-on insemination practice. Prerequisite: AGRI 03150.

AGRI 03366 - Principles of Animal Breeding (3)

A study of the reproductive anatomy, endocrinology, physiology and management of domestic animals. Prerequisite: AGRI 03150. (S)

AGRI 03450 - Small Ruminant Science (3)

Reproduction, physiology, nutrition and management of commercial and purebred sheep. Prerequisite: AGRI 03150. (S)

AGRI 03452 - Beef Science (3)

Reproduction, physiology, nutrition and management of commercial and purebred beef cattle. Includes lab sessions. Prerequisite: AGRI 03150. (F)

AGRI 03454 - Swine Science (3)

Reproduction, physiology, nutrition and management of commercial and purebred swine. Prerequisite: AGRI 03150. (F,S)

AGRI 03455 - Advanced Livestock Production and Management (3)

Management of livestock systems, including record keeping, health protocols, nutrition, reproduction and genetic selection. Prerequisite: AGRI 03150 and consent of the instructor. (F)

AGRI 03459 - Companion Animal Management (3)

Fundamentals of the companion animal industry. Includes principles of nutrition, reproduction, care, and management of companion animals, including cats, dogs, horses, and other companion animals. Prerequisite: AGRI 03150.

AGRI 03460 - Advanced Animal Nutrition (3)

A study of the nutritive requirements of animals for maintenance, growth, lactation, reproduction, and other bodily functions. Intermediary metabolism of nutrients. Ration balancing for livestock at various stages of production. Prerequisite: AGRI 03360. (S)

AGRI 03462 - Advanced Physiology of Domestic Animals (3)

An intensive overview of animal physiology including the complexity of integration of previous research and interactions among physiological systems beyond that obtained in Anatomy and Physiology of Domestic Animals. Prerequisites: AGRI 03150 and AGRI 03362.

AGRI 03469 - Independent Study in Animal Science (1 to 3)

For students who wish to intensify, enrich or specialize in the study of any area of animal science. Consent of instructor necessary. Course is repeatable with topic change for a total of 3 hours. (F, S, SS)

AGRI 03470 - Dairy Science (3)

Fundamentals of the dairy industry. Includes basic principles of nutrition, reproduction, milk production and management of dairy herds. Prerequisite: AGRI 03150. (F)

AGRI 03566 - Genetics of Livestock Improvement (3)

Applications of genetics to the breeding and improvement of livestock. Prerequisite: AGRI 03150. (F)

AGRI 03569 - Problems in Animal Science (1 to 3)

Studies in the area of animal science arranged with a member of the faculty. Consent of instructor necessary. Course is repeatable with topic change for a total of 3 hours. (F, S, SS)

Horticulture**AGRI 03380 - Plant Propagation (3)**

Principles and practices of sexual and asexual propagation of plants. Prerequisite: AGRI 03130 OR BIOL 04112 and BIOL 04113. (S)

AGRI 03381 - Applied Entomology (3)

A study of insects with special reference to taxonomy, life cycles, economic importance and management. (F)

AGRI 03382 - Woody Landscape Plants (3)

Description, use, adaptation, culture and classification of woody plants and cultivars. Prerequisite: AGRI 03130 OR BIOL 04112 and BIOL 04113. (S)

AGRI 03383 - Landscape Design (3)

Design and development of residential space. Prerequisite: AGRI 03130 OR BIOL 04112 and BIOL 04113.

AGRI 03385 - Greenhouse Crop Production (3)

The identification, propagation and culture of flowering potted plants, annual plants and tropical ornamentals. Prerequisite: AGRI 03130 OR BIOL 04112 and BIOL 04113. (F)

AGRI 03387 - Greenhouse Management and Materials (3)

A survey of methods and materials related to management of the greenhouse environment, including heat, light, ventilation, soil, fertilizer, irrigation and crop scheduling. Prerequisites: AGRI 03130 or BIOL 04112 and BIOL 04113, and AGRI 03234.

AGRI 03388 - Fruit and Vegetable Crop Production (3)

Fundamentals of fruit and vegetable crop production, with an emphasis on environmental factors influencing growth, development and quality. Prerequisites: AGRI 03130 or BIOL 04112 and BIOL 04113, and AGRI 03234.(S)

AGRI 03389 - Turfgrass Management (3)

A study of the selection, establishment, and maintenance of various turfgrasses with emphasis on nutrient and pest management. Prerequisite: AGRI 03130, or BIOL 04112 and BIOL 04113.

AGRI 03483 - Landscape Construction (3)

Study of the design and installation of hardscape components in residential and commercial landscapes, including electrical lighting, water management systems, landscape structures, retaining walls, irrigation systems and the use of sustainable materials.

AGRI 03484 - Research in Hydroponic Crop Production (3)

The culture of vegetable crops in hydroponic systems. This course will introduce students to hydroponic food production, experimental factors for analysis of growth factors, and handling of common hydroponic systems. Prerequisites: AGRI 03130, or BIOL 04102 and BIOL 04103, or BIOL 04106 and BIOL 04107.

AGRI 03485 - Herbaceous Perennials (3)

Course encompasses the identification, selection and culture of herbaceous

perennials, biennials and ornamental grasses. Prerequisites: AGRI 03130 OR BIOL 04112 and BIOL 04113, and AGRI 03234.

AGRI 03489 - Independent Study in Horticulture (1 to 3)

For students who wish to intensify, enrich or specialize in the study of any area of horticulture. The course requires the consent of the advisor and supervising staff member. Course is repeatable with topic change for a total of 6 hours. (F, S)

AGRI 03582 - Plant Diseases (3)

A study of diseases affecting ornamentals and crop plants; their causes, nature, economic effects, epidemiology, and control. Prerequisites: AGRI 03130 or BIOL 04112 and BIOL 04113, and CHEM 24112 and CHEM 24113 or CHEM 24114 and CHEM 24115. (S)

AGRI 03585 - Principles of Postharvest Agriculture (3)

A study of the physical and physiological principles related to harvest packaging, transportation, marketing, quality and safety of horticultural crops. Prerequisites: AGRI 03130 or BIOL 04112 and BIOL 04113, and AGRI 03234.

AGRI 03589 - Problems in Horticulture (1 to 3)

Studies in the area of horticulture arranged with members of the staff. The course requires consent of the advisor and supervising staff member. Course is repeatable with topic change for a total of 3 hours. (F, S, SS)

ARSC - College of Arts and Sciences

ARSC 71301 - British Life and Culture (3)

The student will survey British cultural, social, and political life through a series of lectures (by British experts) and field trips. This course is available only to those in the Missouri London Program. (F, S)

ART - Art

ART 13102 - Art Appreciation (3)

A study of the elements and principles of visual art as well as forms of expression in works from the major periods of global art. While the works will be studied in the context of history, the course is not a chronological survey. Not a studio course.

Not for art majors. (F, S, SS) (MOTR ARTS 100)

ART 13299 - Individual Problems in Studio (2)

Individual direction using previously learned skills and techniques. Prerequisite: Permission of instructor. Repeatable once for additional experience, new material and progression of study.

ART 13316 - International Studies in Art History (3)

A course involving international travel to study the art and architecture of other eras and cultures in the places of their geographical origin and/or in museum collections with emphasis on their historical and cultural contexts. Course length is approximately one month. This course is an approved art history elective for art majors. Prerequisites: ART 13109 and ART 13111, both with a minimum grade of C, or permission of instructor for non-majors/minors.

ART 13399 - International Studies in Studio (3)

A course involving international travel emphasizing a studio artist's response to the art, architecture, and culture of selected foreign countries. Course length is approximately one month. Students may enroll twice in the same session for a maximum of six credits. (Advanced standing not required for undergraduate students requesting upper division credit providing course prerequisites have been met.) Prerequisites: ART 13109 or ART 13111, and ART 13221 or ART 13201 or ART 13333.

ART 13402 - Senior Seminar (1)

A seminar dealing with issues encountered by the art educator and artist. Exhibition techniques, preparation of resumes, preparation of letters seeking interviews, preparation of portfolios, and interview techniques will be stressed. Prerequisite: Permission of department chairperson. (F)

ART 13403 - Senior Exhibition (1)

An exhibition to include works produced expressly for the exhibition and outstanding works previously done. Prerequisite: ART 13402. (F, S)

ART 13405 - Art Internship (3 to 6)

Applied and practical experience in an art-related business to gain professional insights and experience in the field. Prerequisite:

Permission of the instructor. Must be an art major with an emphasis in studio art or interest in art history and a 2.5 GPA in the major. Repeatable for additional experience, new material and progression of study.

ART 13425 - Knacktive (3)

Knacktive replicates the creative demands and intense teamwork atmosphere of a technology-oriented, professional marketing communications agency. Interested students must apply for a specific position on a team, participate in an interview, and be selected by the course faculty before registering. Prerequisites: Each position on a team has a minimum prerequisite and students can view the list on the Knacktive website, contact a Knacktive faculty member, or contact their respective department office for more information. Course is repeatable for additional experience. (S)

ART 13501 - International Graduate Studies in Art (3 to 6)

A course involving international travel emphasizing the art, architecture, and culture of selected foreign countries. Students may earn approved art history and/or studio credit. Course length is approximately one month. Students may enroll twice in the same session for a maximum of six credits. Prerequisites are determined by the intended application of this credit toward the student's degree.

Art Education

ART 13180 - Principles of Art Education (3)

The examination of theories, concepts, and principles of art education within the context of the history of art education. The impact of philosophies of art, art education, and general education, relevant psychological and sociological research, current issues and trends in the field, and the nature of art are investigated as they apply to art education. (F)

ART 13235 - Intersections in the Arts (3)

Exploration of fundamentals, histories, cultures, and contemporary development in the fine and performing arts, which include the visual arts, music, theatre, and dance. Designed using an interdisciplinary structure, the course features and synthesizes visual, auditory, and kinesthetic experiences and applications. Fulfills Fine Arts component of The Northwest Core requirements.

ART 13280 - Visual Art Concepts (3)

The course is an examination of philosophies, theories, concepts, and principles of art. Investigation of visual art aesthetics and critical inquiry (art criticism) will be undertaken to develop the student's knowledge and comprehension of these fields. (S)

ART 13380 - Art in the Elementary School (2)

An orientation in current concepts of art education teaching strategies and learning processes and procedures for the elementary classroom. Concepts of art education are presented with experiences to explore appropriate methods and materials. Art majors cannot receive credit for this course. Prerequisite: ART 13102 or MUS 19201, MUS 19202 or MUS 19222.

ART 13382 - Methods in Elementary Art (3)

The teacher's role in directing art experiences in the elementary art classroom. Consideration is given to the student developing strategies for implementing art activities for the individual, class, and total school art program. Prerequisite: ART 13180. (S)

ART 13386 - Papermaking (3)

Processes and techniques for creating two-dimensional and three-dimensional forms using handmade paper. Prerequisite: Advanced standing for art majors.

ART 13389 - Individual Study in Art Education (2)

Individual investigations in art education. Prerequisites: ART 13180 and permission of instructor. Repeatable once for additional experience, new material and progression of study.

ART 13395 - Design With Fibers (3)

Two- and three-dimensional design for fiber techniques with emphasis placed on the design process. (F)

ART 13480 - Methods in Secondary School Art (2)

Specific methods used in teaching art and in curriculum planning for secondary school levels. Prerequisites: ART 13180 and admission into the Professional Education Program. (F)

ART 13495 - Advanced Fibers (3)

Two- and three-dimensional design for advanced fiber techniques with emphasis

placed on the design process and aesthetic quality. Prerequisite: ART 13395. (F)

ART 13582 - Organization and Supervision of the Art Program (2)

The organization of the total art program within the framework of the educational structure of the school; the functions, role and responsibilities of the supervisor, coordinator and/or single art teacher. Model programs in several school classifications will be examined. Prerequisites: ART 13180, ART 13382 and ART 13480.

ART 13584 - Art Activities in the Elementary School (2)

Activities which develop personal sensitivity and refined consciousness with an emphasis on an active philosophy for creative growth which stresses the importance of art as a personal language. Prerequisite: ART 13382.

ART 13588 - Art in the Senior High School (2)

Studies designed to present the secondary art teacher with an expanded conceptual and practical framework for implementing curricular concerns in studio art, art appreciation, art history, and art criticism. Prerequisite: ART 13480.

Art History

ART 13109 - Survey of Art I: Prehistory through Medieval Art (3)

A survey of the major monuments and themes of global ancient and medieval art, architecture, and visual culture. This course explores the production of artworks and architecture in diverse media from 35,000 BCE to 1300 CE in their artistic, cultural, and historical contexts. (F) (MOTR ARTS 101)

ART 13111 - Survey of Art II: Renaissance to the Present (3)

A survey of the major protagonists, monuments, and themes of global art, architecture, and visual culture from the 14th to the beginning of the 21st century. This course introduces students to the basic art historical methods of visual and comparative analysis with the aim of establishing critically-based connections between artistic styles, techniques, and cultural and historical contexts. (S) (MOTR ARTS 102)

ART 13308 - African American Art and Artists (3)

This course explores the history of visual art that was created by Black artists in the United States from 1792 to present. It includes art history, formal and contextual art criticism, aesthetics, art appreciation, and a chronology of the unique stories of Black artists and their struggles with civil rights in this country. Prerequisites: ART 13109 and ART 13111.

ART 13311 - Ancient and Medieval Art (3)

The history of ancient and medieval art, architecture, and visual culture from 3000 BCE to 1300 CE. Emphasis is placed on production, reception, and intention, as well as ideological, social, and economic contexts. Subject areas covered include: Egypt, Aegean, Greece, Rome (including ancient Jewish and early Christian art), Medieval, Byzantine, Romanesque, and Gothic. Prerequisites: ART 13109 and ART 13111, both with a minimum grade of C, or permission of instructor for non-majors/minors. (S, even years)

ART 13312 - Graphic Design History (3)

Graphic Design history since 1890 or the Modernist and Information Era, with some key historical events, technology and persons prior to the 19th century. Includes graphic art developments and how these effected the 1890-1955 era of the emerging industry of graphic design, as well as the rise of digital visual aesthetics. There will be connections made between contemporary art and pivotal schools like the Bauhaus. Studies will link graphic tools like film and later the computer to graphic design. Topics will include print, mass media, typographers, photography, corporate graphics, the internet and post modern reactionary design with accompanying technology. Prerequisite: ART 13111 and ART 13315. (on-line class, SS only)

ART 13313 - Renaissance through Early Modern Art (3)

An examination of the major themes and protagonists in art, architecture, and visual culture from the 14th through the mid-19th century, or from the Renaissance through Realism and Impressionism. The course emphasizes in-depth visual and theoretical analysis of artworks as well as comparative cultural study, with close attention paid to social, historical, political, and religious contexts. Prerequisites: ART 13109 and ART 13111, both with a minimum grade of C, or by permission of instructor for non-majors/minors.

ART 13315 - Nineteenth and Early Twentieth Century Art (3)

A study of the major visual arts in Europe from the latter 18th century to the second decade of the 20th century. Prerequisite: ART 13109 and ART 13111.

ART 13317 - Modern and Contemporary Art (3)

An examination of the major themes and protagonists in art, architecture, and visual culture from the late 19th century to the present, or from Post-Impressionism to Contemporary. The course emphasizes in-depth visual and theoretical analysis of artworks as well as comparative cultural study, with close attention paid to social, historical, political, and ideological contexts. Prerequisites: ART 13109 and ART 13111, both with a minimum grade of C, or permission of instructor for non-majors/minors. (F, odd years)

ART 13318 - Asian Art (3)

The history of art, architecture, and visual culture of Asia and South Asia. The production, reception, and diffusion of selected art forms over time will be examined using a variety of analytical methodologies in order to understand their significance in an Asian cultural context, and in relation to the history of Western interaction with Asian art. Prerequisites: ART 13109 and ART 13111, both with a minimum grade of C, or permission of instructor for non-majors/minors.

ART 13322 - Art of the Islamic World (3)

The history of art, architecture, and visual culture of the Islamic world. The course focuses on selected moments and monuments in the Middle East, Africa, Europe, and South Asia. An emphasis is placed on the relationship of visual arts to the history, geography, and traditions of each region as well as the cross-cultural connections between East and West in the development and transmission of artistic trends in Islamic art. Prerequisite: ART 13109 and ART 13111, both with a minimum grade of C or by permission of instructor for non-majors/minors. (S, odd years)

ART 13411 - Special Topics in Art (1 to 4)

This course provides concentrated study in special topics within Art History. Topics vary semester to semester. Prerequisite: ART 13109 and ART 13111.

Ceramics

ART 13161 - Ceramics (3)

An introduction to studio pottery through comprehensive experience with clay preparation, basic forming, decorating, glazing methods, and kiln firing procedures at low temperatures. Basic studio work principles and individual design are stressed. (F, S)

ART 13302 - Wheel Throwing and Functional Form (3)

An advanced-level course in ceramics. Emphasis on the fundamentals of working on the potter's wheel and developing understanding of functional ceramic forms. Continued study of the physical properties of ceramic materials. Prerequisite: ART 13161. (S)

ART 13360 - Advanced Ceramics (3)

Continued explorations in materials, processes and studio practice in ceramics. Assigned clay and glaze research as well as research into experimental uses of ceramic materials. Focused studio practice and development are stressed. Prerequisites: ART 13161, ART 13192, ART 13302, advanced standing and permission of instructor. (F, S)

ART 13369 - Ceramics Studio (2 to 6)

Further cultivation of each student's approach to materials and processes in ceramics. Mature, disciplined studio practice and focused development of a unique and resolved body of work are stressed. Prerequisites: ART 13360 and permission of instructor. Repeatable, up to 15 credit hours, for additional experience, new material and progression of study. (F, S)

ART 13569 - Ceramics Processes (2 to 6)

Advanced studio work providing students the opportunity to further develop work in ceramics. Study in all phases of studio practice. Repeatable, up to 6 credit hours, for additional experience, new material and progression of study. Prerequisite: Permission of instructor.

Drawing

ART 13120 - Drawing (3)

An introduction to and the application of basic principles of art in drawing using a variety of media, techniques and subjects. (F, S) (MOTR PERF 105D)

ART 13221 - Life Drawing (3)

Application of the fundamentals of drawing to develop an understanding of creative composition using the human figure. Prerequisite: ART 13120 (art majors must complete with at least a grade of C). (F, S)

ART 13321 - Advanced Drawing (3)

A continued study of the human figure, other subjects and composition. More emphasis given to independent decision making. Prerequisite: ART 13221. (S, SS)

ART 13429 - Drawing Studio (2 to 6)

Advanced exploration of drawing media, techniques, and concepts from representation to abstraction. Prerequisites: ART 13321, advanced standing and permission of instructor. Repeatable, up to 15 credit hours, for additional experience, new material and progression of study. Art majors must complete with at least a grade of C. (F, S, SS)

ART 13529 - Drawing Processes (2 to 6)

Advanced studio work providing students with opportunities for extended studies in various media and directions. Repeatable, up to 6 credit hours, for additional experience, new material and progression of study. Prerequisite: Permission of instructor.

Graphic Design

ART 13191 - 2D Design (3)

Introduction to two-dimensional design elements and principles, including design objectives, concepts, processes and skills through varied class projects and lecture/demonstration material. (F, S)

ART 13292 - Introduction to Digital Art Studio (3)

An introduction to digital media for creative imaging using computers, scanners, and digital photography. Appropriate hardware and software exploration for fine art purposes. Prerequisites: ART 13120 and ART 13191 (Digital Media majors may take concurrently with ART 13191 and are not required to have ART 13120 as a prerequisite; art majors must complete prerequisites with at least a grade of C). (F, S)

ART 13294 - Typography (3)

This course covers the study of typography from its fundamental principles, history and terminology to creative visual expression and exploration of digital typefaces. Prerequisite: ART 13191. Graphic Design majors

must pass ART 13191 with at least a grade of C. (F, S)

ART 13388 - Interface Design (3)

This course will explore front-end interactive design creation for creative professionals. Emphasis will be placed on crafting web and app prototypes, designing around CMS frameworks, and overall visual user interface and experience. Prerequisites: ART 13294 and ART 13292. (S)

ART 13390 - Sequential Art (3)

An exploratory of creative sequential art with an emphasis on storytelling i.e., storyboarding, comics and graphic novels, etc. This course will explore both printed and digitally reproduced arrangements of artwork and text (generally in the form of word balloons and captions). Prerequisites: ART 13120, ART 13221, and ART 13292. (S)

ART 13394 - Advanced Digital Art Studio (3)

Course covers advanced visual perception principles and computer procedures for creative digital imagery as it applies to interactive and design applications. Prerequisites: ART 13292 with a minimum grade of C and advanced standing. (F)

ART 13396 - Brand Identity Design (3)

A course with an intensive approach to the research, creation, clarification, presentation and implementation of identity systems and branding. Prerequisites: ART 13120, ART 13294 each with a minimum grade of C and advanced standing. (F)

ART 13398 - Print and Digital Design (3)

Graphic arts and design course for technical print and related media plus advanced interactive media graphics. Equal emphasis on creative problem solving and technical software application. Primary software applications involve desktop publishing and related production software. Prerequisites: ART 13120 and ART 13396. (S)

ART 13401 - Graphic Design Senior Capstone (1)

A program capstone course for Graphic Design and Digital Media: Visual Imaging majors. The course will cover topics related to professional practices and career preparation in the graphic design and digital media professions. Emphasis will be placed on resume building, interviewing, personal

branding, portfolio creation, web presence, networking, self-marketing, and professional development. Prerequisites: junior or senior standing and permission of department chairperson. (F)

ART 13488 - Package Design (3)

Principles of graphic design applied in three dimensions. Projects explore principles of package design systems, materials, processes, sustainability, etc. Prerequisite: ART 13394 and ART 13396. (F)

ART 13491 - Interactive Design (2)

Interactive art/design theory with practical application of time-based motion and static graphics. Prerequisite: ART 13394 or permission of instructor.

ART 13492 - Advertising Design (3)

The creation of a full-service advertising campaign from research to finished art and presentation. Principles of research, market, consumers, strategy, positioning and branding are emphasized, as well as history and study of contemporary advertising issues. Prerequisite: ART 13221, ART 13396 and ART 13398. (S)

ART 13493 - Interactive Portfolio (1)

Interactive design application of time-based motion and static graphics for CD-ROM portfolios or Web portfolios. Prerequisites: ART 13191, ART 13292, ART 13394, ART 13491.

ART 13497 - Motion Graphics (3)

Principles and procedures of creative digital animation. Prerequisite: ART 13394 with a minimum grade of C. (S)

ART 13498 - Illustration (3)

This course confronts drawing issues unique to a digital environment. 2D imagery will be the primary spatial focus but the class may also include virtual 3D illustration problems. Descriptive and interpretive drawing will be studied. Digital tools and design applications will be the primary focus. Prerequisites: ART 13120, ART 13221, ART 13292 each with a minimum grade of C. (F, odd years)

ART 13499 - Design Studio (2 to 6)

Exploration of two- and three-dimensional graphic design processes using a variety of non-traditional materials. Prerequisite: ART 13396 and permission of instructor. Repeatable, up to 15 credit hours, for additional experience, new material and progression of study. (F, S)

ART 13592 - Internship (2 to 6)

To provide the student with an opportunity to work within a business context, so that the student can gain professional experience that would otherwise not be obtained in regular coursework. Prerequisite: Must be junior/senior level graphic design or IDM-VI major with a 3.00 GPA. Approval of work site by your instructor is required. Repeatable, up to 6 credit hours, for additional experience, new material and progression of study. (F, S, SS)

ART 13599 - Design Processes (2 to 6)

Advanced professional level work in various techniques and directions in graphic design and/or fiber arts. Repeatable, up to 6 credit hours, for additional experience, new material and progression of study. Prerequisite: ART 13499 (graphic design) or ART 13495 (fiber arts), and permission of instructor.

Painting**ART 13240 - Painting (3)**

A continued study of elements and principles of composition and color perception; synthesis of drawing and painting through work from traditional genre with concern for materials and methods in the use of the oil medium. Prerequisites: ART 13120 and ART 13191 (art majors must complete prerequisites with at least a grade of C). (F, S)

ART 13340 - Advanced Painting (3)

Emphasis on life study and exposure to alternative forms and media combined with an introduction to the conceptual side of painting. Prerequisites: ART 13221, ART 13240 and advanced standing. (F, S)

ART 13343 - Watercolor Painting (3)

An introduction to both transparent and opaque watercolor with emphasis on their unique qualities and expressive potential. Prerequisites: ART 13240 and advanced standing.

ART 13449 - Painting Studio (2 to 6)

Advanced exploration of painting media, techniques and concepts, from representation to abstraction. Prerequisites: ART 13340, advanced standing, and permission of instructor. Repeatable, up to 15 credit hours, for additional experience, new material and progression of study. Art majors must complete with at least a grade of C. (F, S)

ART 13549 - Painting Processes (2 to 6)

Advanced studio work providing students with opportunities for extended study in various media and directions. Repeatable, up to 6 credit hours, for additional experience, new material and progression of study. Prerequisite: Permission of instructor.

Photography**ART 13201 - Creative Photography (3)**

An introduction to the history of photography and basic darkroom and camera procedures through the exploration of in-darkroom photography. Photography as a creative art and expressive medium will be stressed. (F, S)

ART 13207 - Digital Photography (3)

An introductory creative photography course for students interested in digital media, and for students in the interactive digital media and graphic design majors. Students will explore contemporary applications of visual space and plastic form through the medium of electronic photography. Not for art majors. (F, S)

ART 13303 - Advanced Creative Photography (3)

A continuance of ART 13201. Each student will direct work toward developing a personal expressive approach to photography. The study of contemporary photographers and criticism will be stressed. Studio lighting, Photoshop, digitally scanning film, and making digital prints is introduced. Prerequisites: ART 13201 and advanced standing. (S)

ART 13305 - Advanced Digital Photography (3)

An exploratory continuation of creative photography with an emphasis on advanced digital photography, software, and printing applications. Photography as an art and expressive medium will be stressed. Prerequisites: ART 13303 or ART 13207 and advanced standing.

ART 13309 - Photography Studio (2 to 6)

Directed study and exploration of black and white, color, non-traditional and/or digital photography. Prerequisites: ART 13303 and permission of instructor. Repeatable, up to 15 credit hours, for additional experience, new material and progression of study. (F, S)

ART 13509 - Photography Processes (2 to 6)

Advanced directed studies in various techniques in black and white or digital photography. Repeatable, up to 6 credit hours, for additional experience, new material and progression of study.

Prerequisite: Permission of instructor.

Printmaking**ART 13333 - Printmaking (3)**

An introduction to traditional and contemporary pursuits of intaglio printmaking including color monotype, etching and engraving processes.

Prerequisites: ART 13120 and ART 13221. (F, S)

ART 13433 - Advanced Printmaking (3)

A continuation of ART 13333. Students will develop a personal portfolio of expressive work, learn advanced printmaking techniques, and work on professional skills. Prerequisites: ART 13333, ART 13120, and ART 13221. (F)

ART 13439 - Printmaking Studio (2 to 6)

Directed study in traditional or experimental techniques in selected media. Prerequisites: ART 13333, advanced standing and permission of instructor. Repeatable, up to 15 credit hours, for additional experience, new material and progression of study. (F,S)

ART 13539 - Printmaking Processes (2 to 6)

Advanced directed studies in various media, techniques, and directions. Repeatable, up to 6 credit hours, for additional experience, new material and progression of study.

Prerequisite: Permission of instructor.

Sculpture/Three-Dimensional Design**ART 13150 - Jewelry and Metalsmithing (3)**

This course is designed as an introduction to the language and techniques of jewelry and metalsmithing. During the course, students will focus on techniques and design concepts that deal primarily with the process of small-scale metal fabrication. Emphasis will be placed on jewelry and metalsmithing as an art form, not a means for production. (F)

ART 13192 - Three-Dimensional Design (3)

An introduction to the fundamentals of three-dimensional design explored through assigned problems and a variety of construction methods. Prerequisites: ART

13120 and ART 13191 (completed with at least a grade of C for art majors). (F, S)

ART 13270 - Sculpture (3)

An introduction to the basic concepts and techniques utilized in the production of sculpture, including additive/subtractive methods, welding, and site installation.

Prerequisite: ART 13192 (completed with at least a grade of C for art majors). (F, S)

ART 13470 - Advanced Sculpture (3)

An introduction to concepts and techniques beyond those explored in ART 13270.

Emphasis will be on the execution of ideas and development of the student's artistic direction. Prerequisites: ART 13270 and advanced standing. (F,S)

ART 13479 - Sculpture Studio (2 to 6)

Designed to allow students to focus more comprehensively on a particular direction or technique utilized in the production of sculpture. Discussions and assigned research on contemporary modes in sculpture.

Prerequisites: ART 13470 and permission of instructor. Repeatable, up to 15 credit hours, for additional experience, new material and progression of study. (F, S)

ART 13579 - Sculpture Processes (2 to 6)

Advanced studio work facilitated through discussions on contemporary concepts in sculpture, directed research and group critiques. Emphasis on student's understanding of the content of his/her work and where that fits into the continuum of sculpture. Repeatable, up to 6 credit hours, for additional experience, new material and progression of study. Prerequisite: Permission of instructor.

BIOL - Biological Sciences**BIOL 04102 - General Biology (3)**

A general course in biology providing a broad understanding of the basic principles of biological science such as cells, energy production, photosynthesis, genetics, plant and animal physiology, ecology, environmental issues, and diversity. Upon completion, students will understand the relationship between living organisms and their environment and make more informed decisions regarding issues facing our society. Must co-register in BIOL 04103. Three hours of lecture per week. (F, S, SS) (MOTR BIOL 100L)

BIOL 04103 - General Biology Laboratory (1)

A two-hour laboratory which must be taken concurrently with BIOL 04102. (F, S, SS) (MOTR BIOL 100L)

BIOL 04104 - Medical Terminology (3)

Medical terms encountered in the anatomy, physiology and surgical procedures of the life support systems. (F, S)

BIOL 04105 - Emergency Medical Dispatcher (1)

This 30 hour course provides the theory and practice of emergency medical techniques used by dispatchers over the phone to assist 911 callers in maintaining life until emergency medical personnel arrive. This course includes American Heart Association Basic Life Support training and certification.

BIOL 04106 - Principles of Biology (3)

A course designed for students who want more advanced study in the biological sciences which provides a broad survey of the fundamental principles of living systems, including their nature, processes, organization, and evolution. This course covers topics basic to the study of biology, including chemistry of biomolecules, prokaryotic and eukaryotic cell structure and function, cell division, classical and molecular genetics, evolutionary theory, general taxonomic classification, ecological principles, as well as the process of scientific inquiry. Three hours of lecture per week. Must be taken concurrently with BIOL 04107. (F, S) (MOTR BIOL 150L)

BIOL 04107 - Principles of Biology Laboratory (1)

A two hour companion laboratory which must be taken concurrently with BIOL 04106. (F, S) (MOTR BIOL 150L)

BIOL 04108 - Emergency Medical Responder (2)

Emergency Medical Responder certification is the first of four levels of pre-hospital emergency care certification/licensure in the US. This 40-hour course provides theory and practice of life support skills and techniques necessary to maintain life in emergency medical situations. The EMR certification is required of all law enforcement, firefighters, and rescue squad personnel.

BIOL 04109 - Emergency Medical Technician-Basic 1 (3)

Theory and practice which allows one to gain and apply knowledge about the life support systems encountered in emergency medical situations. Students will be presented symptoms, treatment, practical experience and use of emergency medical equipment. This is the first of two courses that fulfill the requirements to take the National Registry Emergency Medical Technician examinations necessary to become a licensed Emergency Medical Technician-Basic. (F)

BIOL 04110 - Emergency Medical Technician-Basic 2 (3)

Theory and clinical practice which allows one to gain and apply knowledge about the life support systems encountered in emergency medical situations. Students will be presented symptoms, treatment, practical experience and use of emergency medical equipment. Students will participate in clinical experiences in both the ambulance and hospital emergency room. Clinical participation requires passing a background and drug test. This is the second of two courses that fulfill the requirements to take the National Registry Emergency Medical Technician examinations necessary to become a licensed Emergency Medical Technician-Basic. Prerequisite: BIOL 04109 with a minimum grade of C. (S)

BIOL 04111 - Emergency Medical Technician-Basic Refresher (2)

A 48-hour refresher course for licensed Emergency Medical Technician-Basics which provides required continuing education credits to maintain National Registry Emergency Medical Technician certification and Missouri State licensure.

BIOL 04112 - General Botany (3)

A fundamental study of plants and plant-like organisms. Topics include structure, physiology, evolution, diversity, classification, ecology and economic importance. Must co-register for BIOL 04113. Prerequisites: BIOL 04106 and BIOL 04107 with a minimum of grade of C. Three hours of lecture per week. (F, S, SS)

BIOL 04113 - General Botany Laboratory (1)

A two-hour laboratory which must be taken concurrently with BIOL 04112. (F, S, SS)

BIOL 04114 - General Zoology (3)

An introductory course on the life histories of animals taught using an evolutionary paradigm. Topics covered include taxonomy, diversity, anatomy, physiology, ecology, and

reproductive strategies of major animal and protozoan clades. Must co-register for BIOL 04115. Three hours of lecture per week. Prerequisites: BIOL 04106 and BIOL 04107 with a minimum grade of C. (F, S, SS)

BIOL 04115 - General Zoology Laboratory (1)

Two-hour laboratory which must be taken concurrently with BIOL 04114. (F, S, SS)

BIOL 04140 - General Microbiology (4)

A study of the morphology, physiology and cultivation of microorganisms. Studies on diversity, ecology, pathogenicity, fundamentals of immunology, applied microbiology and laboratory techniques will be included. Two hours of lecture and four hours of laboratory per week. Prerequisites: BIOL 04106 and BIOL 04107, or BIOL 04102 and BIOL 04103 with a minimum grade of C, and CHEM 24114 and CHEM 24115. Pre-nursing and dietetics students may substitute CHEM 24112 and CHEM 24113. (F, S)

BIOL 04210 - Current Topics in Biology (1 to 3)

Each current topic is specifically designed to address a timely topic in biology. Repeatable for additional experience, new material and progression of study.

BIOL 04236 - Anatomy Allied Health (4)

An introduction to the anatomy of the human body, including cells, tissues, organs, and organ systems. Comprehension is emphasized over memorization, but some basic terminology is also presented. This course is designed for beginning students in the allied health sciences, such as pre-nursing and pre-radiology. Prerequisites: BIOL 04102 and BIOL 04103 or BIOL 04106 and BIOL 04107, and CHEM 24112 and CHEM 24113 or CHEM 24114 and CHEM 24115. (F)

BIOL 04238 - Physiology Allied Health (4)

The study of human physiological processes from the perspective of an allied health professional. Topics include muscle, nervous, cardiovascular, respiratory, renal, gastrointestinal, reproductive and endocrine physiology. Physiological responses to important medications and patient nutrient status will be emphasized. Three hours of lecture and three hours of laboratory per week. Prerequisites: BIOL 04102 and BIOL 04103 or BIOL 04106 and BIOL 04107 and CHEM 24112 and CHEM 24113 or CHEM 24114 and CHEM 24115. (S)

BIOL 04261 - Local Flora (2)

A two-hour laboratory course designed to acquaint the student with plants of this region and their classification. Prerequisite: BIOL 04112 and BIOL 04113 with a minimum grade of C. (F)

BIOL 04293 - Medical Transcription and Medical Records Practicum (2)

The practicum consists of the American Medical Association's Medical Transcription Course which is a programmed study and directed practice in the medical records department. The directed practice includes experiences in admitting procedures, dismissing procedures, insurance forms, coding diseases and operations, medical record completion (inspecting charts for deficiencies), filing and computer data processing form completion. Two hours of lecture per week. (F, S)

BIOL 04301 - Internship: Cellular Biology (1 to 3)

Each student will be supervised and be an active participant in an area of microbiology, cellular biology, or genetics. 64 hours of work will be required for each hour of credit. A professional paper describing the supervised experience will be required. By permission only. Three hours of internship may be counted towards the major or minor. Repeatable for additional experience, new material and progression of study. (F, S, SS)

BIOL 04302 - Internship: Organismal Biology (1 to 3)

Each student will be supervised and be an active participant in an area of health care, anatomy, botany, entomology, physiology or zoology. 64 hours of work will be required for each hour of credit. A professional paper describing the supervised experience will be required. By permission only. Three hours of internship may be counted towards the major or minor. Repeatable for additional experience, new material and progression of study. (F, S, SS)

BIOL 04303 - Internship: Ecological Biology (1 to 3)

Each student will be supervised and be an active participant in an area of ecology, environmental science, or wildlife conservation. 64 hours of work will be required for each hour of credit. A professional paper describing the supervised experience will be required. By permission only. Three hours of internship may be counted towards the major or minor.

Repeatable for additional experience, new material and progression of study. (F, S, SS)

BIOL 04307 - Environmental Internship (1 to 3)

Students will be placed in a work setting and become an active participant in an environmental area. Sixty-four hours of on-site work plus a written report will be required. Prerequisite: Permission of instructor. Repeatable for additional experience, new material and progression of study. (F, S, SS)

BIOL 04310 - Cell Biology (4)

An introduction to the fundamentals of cellular structure and function. Cell physiology, molecular biology, cellular organelles, energy relationships and reproduction of cells are included. Three hours of lecture and three hours of laboratory per week. Required prerequisites: BIOL 04106 and BIOL 04107, CHEM 24114 and CHEM 24115 and CHEM 24116 and CHEM 24117 all with a minimum grade of C and sophomore standing. Recommended prerequisites: CHEM 24342 and CHEM 24343. (F, S)

BIOL 04312 - Invertebrate Zoology (4)

A systematic treatment of major invertebrate phyla, classes and other groups, including taxonomic, anatomical, physiological, embryological and ecological features. Two hours of lecture and two two-hour laboratories per week. Prerequisite: BIOL 04114 and BIOL 04115 with a minimum grade of C. (S)

BIOL 04318 - Principles of Taxonomy and Evolution (4)

A study of the origin and diversity of life as well as both animal and plant classifications. Studies include contemporary systematic approaches, construction of keys, international rules of nomenclature, evolutionary principles, and origin of species. Two hours of lecture and four hours of laboratory per week. Prerequisites: BIOL 04112 and BIOL 04113 and BIOL 04114 and BIOL 04115 with a minimum grade of C. (S, even years)

BIOL 04330 - Animal Anatomy and Physiology (4)

Introductory course dealing with basic anatomy and physiology of major animal groups. This course is taught using a systems-based approach, with emphasis on how anatomy and physiology correlates with the

ecology, behavior, and basic life history of animals. Three hours of lecture and two hours of laboratory per week. Prerequisites: BIOL 04114 and BIOL 04115 and CHEM 24114 and CHEM 24115 with a minimum grade of C. (S)

BIOL 04348 - Biological Evolution and Diversity (2)

A scientific survey of fundamental aspects of biological evolution and diversity. Topics covered include, but are not limited to, history of evolutionary thought, models of evolution, diversification, species concepts, adaptation and selection, and biogeography. These subjects will be illustrated with examples from the natural world, including prokaryote, protozoan, fungal, plant, and animal divisions of life. Prerequisites: BIOL 04112 and BIOL 04113 and BIOL 04114 and BIOL 04115.

BIOL 04350 - Genetics (4)

An introduction to the fundamental facts and principles of inheritance including molecular genetics, quantitative genetics, population genetics, and evolutionary genetics. Three hours of lecture and two hours of laboratory per week. Prerequisites: BIOL 04106 and BIOL 04107 with a minimum grade of C and sophomore standing or permission of instructor. (F, S)

BIOL 04362 - Mammalogy (4)

A study of mammals with emphasis upon their classification, identification, evolution, life histories, ecology, habits, anatomy, physiology, and economic values. One hour lecture and two three-hour laboratories per week. Prerequisites: BIOL 04112 and BIOL 04113, and BIOL 04114 and BIOL 04115 with a minimum grade of C. (F)

BIOL 04364 - Ornithology (4)

A study of the habitats, life histories, structure, functions, evolution, ecology, classification and identification of the birds found primarily in this region. One hour lecture and three-hour laboratories per week. Prerequisites: BIOL 04112 and BIOL 04113 and BIOL 04114 and BIOL 04115 with a minimum grade of C. (S)

BIOL 04366 - Entomology (3)

An introduction to the world of insects: their structure and function, numbers, classification, life history, behavior, ecology and their relationship to humans. Two hours of lecture and one two-hour laboratory per week. Prerequisites: BIOL 04112 and BIOL

04113, and BIOL 04114 and BIOL 04115 with a minimum grade of C. (F)

BIOL 04376 - Basic Ecology (4)

A basic study in ecological field techniques and ecological theory. Three hours of lecture and one three-hour laboratory per week.

Prerequisites: BIOL 04112 and BIOL 04113 and BIOL 04114 and BIOL 04115 with a minimum grade of C or permission of instructor. (F)

BIOL 04383 - Biology Practicum (1)

Instruction and practical experience in development, teaching and the preparation of introductory biology laboratories.

Coordinated by the bioscience coordinator. BIOL 04483 may be taken for an additional practicum credit. One laboratory section per week. Prerequisites: BIOL 04112, BIOL 04113, BIOL 04114, BIOL 04115, and BIOL 04-350 all with a minimum grade of C and junior standing or permission of instructor.

Repeatable for additional experience, new material and progression of study. (F, S, SS)

BIOL 04401 - Research: Cellular Biology (1 to 3)

This course is designed to give students experience in planning, conducting and presenting an undergraduate research project under the direction of a department faculty member. Topics may include, but are not limited to, microbiology, physiology, cell biology and genetics. Repeatable for additional experience, new material and progression of study. Students may take up to 9 hours of research (BIOL 04401, BIOL 04402, and BIOL 04403) and internship (BIOL 04301, BIOL 04302, BIOL 04303) combined. (F, S)

BIOL 04402 - Research: Organismal Biology (1 to 3)

This course is designed to give students experience in planning, conducting and presenting an undergraduate research project under the direction of a departmental faculty member. Topics may include, but are not limited to, anatomy, botany, entomology, and zoology. Repeatable for additional experience, new material and progression of study. Students may take up to 9 hours of research (BIOL 04401, BIOL 04402 and BIOL 04403) and internship (BIOL 04301, BIOL 04302, BIOL 04303) combined. (F, S)

BIOL 04403 - Research: Ecological Biology (1 to 3)

This course is designed to give students experience in planning, conducting and presenting an undergraduate research project under the direction of a departmental faculty member. Topics may include, but are not limited to, ecology, environmental science, and wildlife conservation. Repeatable for additional experience, new material and progression of study. Students may take up to 9 hours of research (BIOL 04401, BIOL 04402 and BIOL 04403) and internship (BIOL 04301, BIOL 04302, BIOL 04303) combined. (F, S)

BIOL 04412 - Plant Anatomy and Morphology (4)

A study of the development, structure and function of plant tissues and organs, as well as the form and structure of extinct plant groups found in the fossil record. Primary emphasis on vegetative and reproductive organs of gymnosperms and angiosperms. Two hours of lecture and four hours of laboratory per week. Prerequisites: BIOL 04112 AND BIOL 04113, and BIOL 04114 and BIOL 04115 with a minimum grade of C. (S, alt. years)

BIOL 04418 - Vertebrate Histology (5)

The study of vertebrate tissues and organs. Laboratory consists of a microscopic study of cells, tissues, organs and organ systems. Two hours of lecture and six hours of laboratory per week. Prerequisite: BIOL 04435 OR BIOL 04436 with a minimum grade of C. Recommended prerequisite: BIOL 04310. (S)

BIOL 04420 - Environmental Issues (4)

An overview of the science, politics and sociology of current environmental issues, including pollution, wastes, ozone depletion, acidic precipitation, greenhouse effect, deforestation, water use, energy and population. Prerequisites: BIOL 04106 and BIOL 04107 with a minimum grade of C and CHEM 24114 and CHEM 24115. Three hours of lecture plus one two-hour lab per week. (S)

BIOL 04429 - Problems in Cellular/Molecular/Microbial Biology (1 to 3)

Focused study of a topic chosen by the student and faculty member. Topics may include, but are not limited to, microbiology, cell biology and genetics. Permission of instructor necessary. Repeatable for additional experience, new material and progression of study.

BIOL 04430 - Plant Physiology (4)

A study of the chemical and physical processes involved in the growth and functioning of plants. Major topics include water relations, metabolic processes, and regulators of growth and development. Content includes material at the molecular, cellular, and organismal level. Three hours lecture and three hours laboratory per week. Prerequisites: BIOL 04112 and BIOL 04113, or BIOL 04310 or BIOL 04350, and CHEM 24114 and CHEM 24115 with a minimum grade of C. (S, even years)

BIOL 04435 - Comparative Anatomy (5)

An advanced course designed to familiarize students with fundamental and in-depth aspects of anatomy, evolution, and functional morphology in vertebrate animals. Laboratory includes hands-on dissection and examination of all major body systems in selected vertebrates. Two hours of lecture and six hours of lab per week. Prerequisites: BIOL 04114 and BIOL 04115 with a minimum grade of C and PHYS 25110 and PHYS 25111 OR PHYS 25120 and PHYS 25121 or permission of instructor. (F)

BIOL 04436 - Human Anatomy (4)

The systematic study of human anatomy, including the skeletal, muscular, cardiovascular, digestive, respiratory, urinary, endocrine, reproductive, and integumentary systems. Three hours of lecture and two hours of laboratory per week. Prerequisites: BIOL 04114 and BIOL 04115 with a minimum grade of C. Recommended prerequisite: BIOL 04104. (F, S)

BIOL 04438 - Human Physiology (4)

The study of the physiological processes of humans, including membranes, muscle, nervous, cardiovascular, respiratory, renal, gastrointestinal, endocrine and reproductive physiology. Three hours of lecture and three hours of laboratory per week. Prerequisite: BIOL 04310 with a minimum grade of C. Recommended prerequisites: BIOL 04104 and either BIOL 04236 or BIOL 04432 or BIOL 04436. (F, S)

BIOL 04439 - Problems in Organismal Biology (1 to 3)

Focused study of a topic chosen by the student and faculty member. Topics may include, but are not limited to, anatomy, botany, entomology, physiology, and zoology. Permission of instructor necessary. Repeatable for additional experience, new material and progression of study.

BIOL 04440 - Molecular Biology (4)

An advanced course that explores the molecular structures, processes, and regulatory mechanisms related to DNA, RNA, protein expression and function. Three hours of lecture and three hours of laboratory per week. Prerequisite: BIOL 04350 with a minimum grade of C. Recommended prerequisites: BIOL 04140, BIOL 04310. (S, odd years)

BIOL 04444 - Immunology (5)

Principles of immunology: to include antigen-antibody relationships, host-antigen interaction, immunocytology, humoral and cellular response mechanisms, and serologic reactions. Two hours of lecture and six hours of laboratory per week. Prerequisites: BIOL 04140 and CHEM 24114 and CHEM 24115 with a minimum grade of C or permission of instructor. (S)

BIOL 04460 - Herpetology (4)

Anatomy, physiology, taxonomy, distribution, life history and ecology of amphibians and reptiles, emphasizing those in Missouri. One hour of lecture and two three-hour laboratories per week. Prerequisite: BIOL 04114 and BIOL 04115 with a minimum grade of C. (S)

BIOL 04470 - Readings in Ecology (2)

Directed reading in ecology. Designed to acquaint the student with both historical and current developments in animal and plant ecology. Two hours of discussion per week. Prerequisites: BIOL 04376 with a minimum grade of C and senior standing. Repeatable for additional experience, new material and progression of study. (S, odd years)

BIOL 04474 - Wildlife Management and Conservation (2)

A course designed to apply field and laboratory techniques to the management of game and nongame wildlife resources; management emphasis will entail conservation practices with consideration for threatened, rare and endangered species. Professionally written papers are required. One hour of lecture and three hours of laboratory per week. Prerequisites: BIOL 04112 and BIOL 04113, BIOL 04114 and BIOL 04115, BIOL 04261, and BIOL 04376 with a minimum grade of C and senior standing, or consent of instructor. (F)

BIOL 04478 - Readings in Molecular Biology (2)

Directed readings in advances and techniques in molecular biology.
Prerequisites: BIOL 04310, BIOL 04440 with a minimum grade of C. Repeatable for additional experience, new material and progression of study. (F, alt. years)

BIOL 04479 - Problems in Ecological/Evolutionary Biology (1 to 3)

Focused study of a topic chosen by the student and faculty member. Topics may include, but are not limited to ecology, environmental science, and wildlife conservation. Permission of instructor necessary. Repeatable for additional experience, new material and progression of study.

BIOL 04483 - Advanced Biology Practicum (1)

An advanced course in practical procedures of instruction and preparation in biological laboratories. A maximum of two semester hours in advanced biology practicum courses is allowed. Prerequisite: Successful completion of assigned course that the student teaches as lab assistant plus consent of instructor. Repeatable for additional experience, new material and progression of study. (F, S, SS)

BIOL 04489 - Problems in Biological Education (1 to 3)

Permission of instructor necessary.
Prerequisites: BIOL 04112 and BIOL 04113 and BIOL 04114 and BIOL 04115 with a minimum grade of C. Repeatable for additional experience, new material and progression of study.

BIOL 04491 - Biological Science Seminar (1)

Individual reports and group discussion of problems and current research in biological sciences. Repeatable for additional experience, new material and progression of study. A maximum of two semester hours is allowed. Prerequisite: BIOL 04350 and senior standing in major or minor. (F, S)

BIOL 04510 - Current Topics in Biology (1 to 6)

Each course is specifically designed to address a timely topic in biology. Repeatable for additional experience, new material and progression of study.

BIOL 04511 - Techniques in Biotechnology (4)

A studio course dedicated to hands-on experience with common techniques used in the field of biotechnology. Theory and practical experience will be provided for techniques in DNA isolation and manipulation, gene cloning, library screening, molecular detection, and protein expression, genomic analysis and bioinformatics. In addition, students will be exposed to current topics and ethical considerations in the biotechnology industry. Two three-hour studio sessions per week with additional independent laboratory work required. Prerequisite: BIOL 04350 with a minimum grade of C. Recommended prerequisite: BIOL 04140. (F)

BIOL 04555 - Introduction to Bioinformatics (3)

This will be a general introduction to bioinformatic tools and analytics. We will cover aspects of nucleic-acid and protein-sequence comparisons, assembly/annotation of small genomes, metabolic modeling of genomes, comparative genomics, phylogenetics, and computational biology. The course will consist of two hours of lecture and two hours of lab per week. Prerequisite: BIOL 04350 with a grade of C or higher.

BIOL 04576 - Methods in Plant and Animal Ecology (3)

A studio course that provides a balanced survey of a variety of field techniques involving data collection or simulation and analysis of plant and animal populations and communities. Laboratory and field exercises will focus on critical thinking and problem-solving. This course is NOT designed to emphasize ecological theory nor scientific writing although aspects of each are included. Six hours of studio course times per week. Prerequisite: BIOL 04376; MATH 17114 for science majors highly recommended. (F, first block)

Gulf Coast Research

The following courses are not taught on the Northwest campus, but at the accredited Gulf Coast Research Center.

BIOL 04351 - Marine Science I: Oceanography (3)

An introductory course in oceanography which integrates chemical, geological and physical oceanography to provide fundamentals of oceanography at Gulf Coast Research Laboratory. Prerequisites: BIOL

04106 and BIOL 04107 with a minimum grade of C and CHEM 24114 and CHEM 24115. (SS)

BIOL 04352 - Marine Science II: Marine Biology (3)

A general introduction to marine biology with emphasis on local fauna and flora at Gulf Coast Research Laboratory. Prerequisites: BIOL 04106 and BIOL 04107 with a minimum grade of C and BIOL 04114 and BIOL 04115 OR BIOL 04112 and BIOL 04113 with a minimum grade of C. (SS)

BIOL 04353 - Marine Science Laboratory I (2)

Field and laboratory exercises that accompany BIOL 04351, consisting of various sampling techniques, analytical methods, data analyses, chart reading, and shipboard procedures. Must co-register in BIOL 04351. (SS)

BIOL 04354 - Marine Science Laboratory II (2)

Field and laboratory exercises that accompany BIOL 04352, consisting of various sampling techniques, species identification, data analyses, chart reading, and shipboard procedures. Must co-register in BIOL 04352. (SS)

BIOL 04450 - Coastal Ornithology (3)

An introductory, field-oriented ornithology course that explores the highly diverse avian habitats found along the Mississippi Gulf Coast, emphasizing field ecology and behavior. Lectures, laboratory exercises, and field trips will introduce students to techniques including bird-banding, call-broadcast surveys, and other monitoring methodologies. Prerequisites: two semesters of biology or permission of instructor; a course in general ecology is recommended.

BIOL 04451 - Cetacean Behavior (4)

Students will learn tools and techniques used in the systematic observation and documentation of dolphin and whale behavior in the wild. Course includes both classroom lecture and field studies focused primarily on dolphins of the Mississippi Sound. Prerequisites: two semesters of biology or permission of instructor; a course in general ecology is recommended. (SS)

BIOL 04453 - Shark Biology (3)

An overview of elasmobranch biology with an emphasis on anatomy, physiology, and ecology of sharks, skates and rays. Lecture will cover such topics as diversity, evolution,

anatomy and physiology, behavior, ecology, and fisheries management. Must co-register in BIOL 04454. Prerequisites: three semesters of biology including Marine Biology BIOL 04352 and BIOL 04354. (SS)

BIOL 04454 - Shark Biology Laboratory (2)

The laboratory will consist of elasmobranch identification and taxonomy, as well as anatomy and physiology through animal dissection. Several field trips will be taken to expose students to the various collecting methods used in field research. Must co-register in BIOL 04453.

BIOL 04455 - Marine Mammals (3)

An overview of the biology of marine mammals (cetaceans, pinnipeds, sirenians, otters, and polar bear) including evolution and systematics, zoogeography, aquatic adaptations, life history and reproduction, population dynamics, diet and feeding, diving physiology and additional topics. Must co-register in BIOL 04456 Marine Mammals Lab. Prerequisites: Three semesters of biology including marine biology or marine ichthyology or permission of instructor. (SS)

BIOL 04456 - Marine Mammals Laboratory (2)

A companion field and lab course for Marine Mammals, emphasizing field identification and techniques. Must co-register in BIOL 04455 Marine Mammals. (SS)

BIOL 04457 - Barrier Island Ecology (2)

This course will familiarize students with concepts of coastal ecology with emphasis on the diversity of plant and animal communities unique to the northern Gulf of Mexico barrier island ecosystem. Must co-register for BIOL 04458. Prerequisite: three semesters of science or permission of instructor. (SS)

BIOL 04458 - Barrier Island Ecology Laboratory (2)

This course consists of field excursions to barrier islands off Mississippi and Florida coasts. Habitats to visit will include marsh and barrier island vegetation, aquatic and terrestrial invertebrates, mammals, birds and reptiles, brackish pond and lagoon communities, submerged seagrass communities, intertidal and shallow subtidal communities. Geologic processes and island dynamics will also be explored. Must co-register in BIOL 04457. (SS)

BIOL 04471 - Environmental Photography (3)

A course that develops an awareness of our environment through the medium of photography. Subjects include the structure and function of ecosystems, especially aquatic ones. Frequent field trips focus on selected environmental concerns. Lecture and practice will emphasize interrelationships at macroscopic and microscopic levels. Although no formal coursework is prerequisite, it is expected that students will have a basic awareness of environmental issues. (SS)

BIOL 04541 - Marine Botany (4)

A survey based upon local examples of the principal groups of the marine algae and marine flowering plants, treating structure, reproduction, distribution, identification and ecology at Gulf Coast Research Laboratory. Prerequisite: 10 hours of botany. Upper-level undergraduate and graduate credit. (SS)

BIOL 04549 - Marine Microbiology (5)

Microbiology and advanced microbiology students are introduced to the role of the microorganisms in the overall ecology of oceans and estuaries at Gulf Coast Research Laboratory. Prerequisite: General microbiology and environmental microbiology or consent of instructor. Upper-level undergraduate and graduate credit. (SS)

CHEM - Chemistry**CHEM 24112 - General Chemistry (3)**

Beginning course for those who did not take chemistry in high school. Must be taken concurrently with CHEM 24113. Serves as a refresher course for science majors and satisfies the general laboratory physical science requirement. Involves a study of elements, compounds and fundamental chemical laws. Three hours of lecture and recitation per week. Prerequisite: High school algebra. (F, S) (MOTR CHEM 100L)

CHEM 24113 - General Chemistry Laboratory (1)

Beginning laboratory course which must be taken concurrently with CHEM 24112 lecture. Two hours of laboratory and recitation. (F, S) (MOTR CHEM 100L)

CHEM 24114 - General Chemistry I (3)

Beginning course for science majors with a good high school background in chemistry. Must be taken concurrently with CHEM

24115. This course covers fundamental chemical principles such as atoms, molecules, chemical reactions, stoichiometry, and gas laws as it progresses towards detailed study of quantum chemistry, periodic relationships, and molecular structure and properties. Three hours of lecture and recitation per week. Prerequisite: High school algebra. (F, S) (MOTR CHEM 150L)

CHEM 24115 - General Chemistry I Laboratory (1)

Laboratory course which must be taken concurrently with CHEM 24114. Three hours of laboratory and recitation. (F, S) (MOTR CHEM 150L)

CHEM 24116 - General Chemistry II (4)

A continuation of CHEM 24114. Must be taken concurrently with CHEM 24117. Four hours of lecture and recitation. This course involves a study of kinetics, principles of equilibrium and thermodynamics. Prerequisite: CHEM 24114 and CHEM 24115 with a minimum grade of C. (F, S)

CHEM 24117 - General Chemistry II Laboratory (1)

Laboratory course which must be taken concurrently with CHEM 24116. One three-hour period of laboratory and recitation per week. (F, S)

CHEM 24135 - Laboratory Safety (2)

A comprehensive introduction to the protocols and practices for working safely in a modern chemistry laboratory. The course seeks to facilitate students' awareness of safe practices for chemical handling and disposal, potential hazards, emergency response and personal protection. Two hours of lecture/lab per week. Prerequisites: CHEM 24114 and CHEM 24115 with a minimum grade of C. (S)

CHEM 24211 - Special Topics in Chemistry (1 to 3)

In-depth study of special topics which may include environmental chemistry, atomic and molecular structure, kinetics, industrial chemistry, polymer chemistry, computer applications in the laboratory, surface chemistry and colloidal chemistry. Can be repeated with different topics. Prerequisites: CHEM 24114 and CHEM 24115 with a minimum grade of C.

CHEM 24242 - Organic Chemistry (3)

An introductory course in general organic chemistry designed for students majoring in

fields other than chemistry who desire a general course. The carbon compounds, together with their relations to the life processes, are covered in this course. Must be taken concurrently with CHEM 24243. Three hours of lecture. Prerequisite: CHEM 24112 or CHEM 24114 with a minimum grade of C. (F)

CHEM 24243 - Organic Chemistry Laboratory (1)

Laboratory course which must be taken concurrently with CHEM 24242. Three hours of laboratory and recitation. (F)

CHEM 24322 - Analytical Chemistry (3)

This course involves a study of the theory, methods and techniques for the quantitative separation and determination of the amounts of materials present in certain natural and manufactured products. Three hours of lecture and recitation. Must be taken concurrently with CHEM 24323. Prerequisites: CHEM 24116 and CHEM 24117 with a minimum grade of C. (F)

CHEM 24323 - Analytical Chemistry Laboratory (1)

Laboratory course which must be taken concurrently with CHEM 24322. One three-hour period of laboratory and recitation per week. (F)

CHEM 24324 - An Introduction to Forensic Science (3)

This course covers the basic techniques used to analyze forensic evidence. Basic concepts of chemistry, biology, and physics are used to understand how forensic science techniques function. The interdisciplinary nature of forensic science problems is emphasized. Prerequisite: One year of college chemistry or permission of instructor.

CHEM 24342 - Organic Chemistry I (3)

This is a general course in organic chemistry for students majoring in chemistry. It must be taken concurrently with CHEM 24343. Three hours of lecture and recitation. Prerequisite: CHEM 24116 and CHEM 24117 with a minimum grade of C. (F)

CHEM 24343 - Organic Chemistry I Laboratory (1)

Laboratory course in organic chemistry which must be taken concurrently with CHEM 24342.

CHEM 24344 - Organic Chemistry II (3)

This is a continuation of CHEM 24342. Three hours of lecture and recitation. Must be taken concurrently with CHEM 24345. Prerequisite: CHEM 24342 with a minimum grade of C. (S)

CHEM 24345 - Organic Chemistry II Laboratory (1)

This course involves a study of the qualitative determination of functional groups and identification of compounds by gas chromatography, infrared spectroscopy, and nuclear magnetic resonance. One three-hour laboratory period per week. Must be taken concurrently with CHEM 24344. Prerequisite: CHEM 24342 and CHEM 24343 both with a minimum grade of C. (S)

CHEM 24362 - Elementary Biochemistry (3)

A non-rigorous treatment of selected aspects of biologically oriented chemistry. Emphasis will be on acquainting the student with many of the substances of which living organisms consist, with their interrelationships, and with some of the better known biochemical changes which they undergo. Must be taken concurrently with CHEM 24363. Prerequisite: CHEM 24242 or CHEM 24342. (S)

CHEM 24363 - Elementary Biochemistry Laboratory (1)

This is a laboratory course to be taken concurrently with CHEM 24362. One three-hour period per week will be used for laboratory amplification of topics presented in CHEM 24362. (S)

CHEM 24364 - Forensic DNA Science (3)

Covers the theory and techniques used to analyze DNA in forensic evidence. Basic concepts of chemistry and biology are used to understand how DNA analysis functions. Emphasis will be on collecting specimens, isolating and analyzing DNA, and statistical analysis to link the specimen to individual. Two hours of lecture and three hours of laboratory per week. Prerequisites: CHEM 24242 or any General Chemistry with permission of instructor.

CHEM 24370 - Chemistry Practicum (1 to 3)

The practicum provides students with experience in teaching a chemistry laboratory. Students will assist faculty with the preparation and instruction of chemistry labs. Can be repeated for new experience. (F, S)

CHEM 24435 - Chemistry Internship (1 to 3)

Students with junior or senior standing with a major or minor in chemistry may enroll in an intern program (paid or unpaid) with a chemical or pharmaceutical company or for an academic research experience. Student must have advanced standing, permission of the instructor and department chairperson and must prepare a written proposal at the time of registration. A minimum of 50 hours of work per credit hour is required. Can be repeated for new experience. Prerequisite: Permission of instructor and department chairperson. (F, S, SS)

CHEM 24436 - Medicinal Chemistry I (3)

Physical properties of pharmaceutical solutions and their physiological compatibility will be discussed (intermolecular interactions, energetics, colligative properties, isotonicity, pH, buffers and drug solubility). Kinetics and mechanisms of drug degradation in solution will also be introduced. Prerequisite: Permission of instructor.

CHEM 24438 - Medicinal Chemistry II (3)

A quantitative treatment of the processes involved with drug absorption, distribution, metabolism, and excretion in living systems. Prerequisite: Permission of instructor.

CHEM 24499 - Special Investigations in Chemistry (1 to 3)

Special projects and experiments in chemistry which are not included in the regular coursework. May be selected successively for one or more hours of credit per semester to a maximum credit of three hours. A minimum of 50 hours of work per credit hour is required. Can be repeated for new experience. Prerequisite: Permission of instructor. (F, S, SS)

CHEM 24511 - Aquatic and Soil Environmental Chemistry (3)

This course covers the different chemical reactions in aquatic environments and how these reactions are interconnected. Common aquatic pollutants along with their analysis and removal are also covered. This is followed by the chemical reactions in soil and how they are interconnected. Common pollutants in soil and their removal is included. During the course, instrumental methods that are used in soil and water analyses are reviewed. Must be taken concurrently with CHEM

24512. Prerequisites: CHEM 24322 and CHEM 24323, each with a minimum grade of C.

CHEM 24512 - Aquatic and Soil Environmental Chemistry Laboratory (1)

A laboratory course which must be taken concurrently with CHEM 24511. One three-hour laboratory period of laboratory and recitation per week. Prerequisites: CHEM 24322 and CHEM 24323, each with a minimum grade of C.

CHEM 24513 - Atmospheric and Green Environmental Chemistry (3)

This environmental chemistry course focuses on the atmosphere and modern green methods, technologies, and processes. A review of various instrumental methods utilized in the course will be included. Must be taken concurrently with CHEM 24514. Prerequisites: CHEM 24322 and CHEM 24323, each with a minimum grade of C.

CHEM 24514 - Atmospheric and Green Environmental Chemistry Laboratory (1)

Laboratory course in atmospheric and green environmental chemistry that must be taken concurrently with CHEM 24513. Prerequisites: CHEM 24322 and CHEM 24323, each with a minimum grade of C.

CHEM 24520 - Protein Chemistry (4)

A course dedicated to the study of advanced topics in protein chemistry and function. Topics related to determination of protein structure, protein folding, the connection of protein structure and function, enzymology, and protein purification will be investigated. Three hours of lecture and three hours of lab per week. Prerequisites: CHEM 24562 and CHEM 24563 with a minimum grade of C, or permission of instructor. (S, alt. years)

CHEM 24522 - Instrumental Analysis (2)

A study of modern techniques and theories of analysis including an introduction to basic instrumental analysis. Must be taken concurrently with CHEM 24523. Two hours of laboratory and recitation per week. Prerequisite: CHEM 24322 and CHEM 24323 with a minimum grade of C.

CHEM 24523 - Instrumental Analysis Laboratory (2)

Must be taken concurrently with CHEM 24522. Two three-hour laboratory periods per week.

CHEM 24532 - Physical Chemistry I (3)

The study of atomic and molecular phenomena through the scrutiny and interpretation of the physical laws that govern the structure and behavior of matter as it exchanges energy within and between itself and its surroundings in the atomic and molecular domains. Must be taken concurrently with CHEM 24533. Topics include the foundation of quantum chemistry, atomic and molecular structure, spectroscopy, and computational chemistry. It is strongly suggested that CHEM 24532 be taken prior to CHEM 24534. Prerequisites: CHEM 24116 and CHEM 24117 with a minimum grade of C, PHYS 25120 and MATH 17121.

CHEM 24533 - Physical Chemistry I Laboratory (1)

Laboratory course in physical chemistry that must be taken concurrently with CHEM 24532. Prerequisites: CHEM 24116 and CHEM 24117 with a minimum grade of C, and PHYS 25120 and MATH 17121. (F)

CHEM 24534 - Physical Chemistry II (3)

The study of thermodynamic systems and processes and the rates at which chemical reactions occur through the scrutiny and interpretation of the physical laws that govern the structure and behavior of matter as it exchanges energy within and between itself and its surroundings in the macroscopic domain. Must be taken concurrently with CHEM 24535. Topics include thermochemistry, thermodynamics, equilibrium, solutions, gases, chemical dynamics, and chemical kinetics. Prerequisites: CHEM 24532 and CHEM 24533 with a minimum grade of C, or permission of instructor. (S)

CHEM 24535 - Physical Chemistry II Laboratory (1)

Laboratory course in physical chemistry that must be taken concurrently with CHEM 24534. (S)

CHEM 24552 - Advanced Inorganic Chemistry (3)

Modern aspects of inorganic chemistry, includes coordination chemistry, molecular orbital theory, group theory and catalysis, magnetic properties of elements and compounds. Three hours of lecture and recitation per week. Corequisite: CHEM 24555. Prerequisite: CHEM 24532 with a minimum grade of C, or concurrently.

CHEM 24555 - Inorganic Synthesis Laboratory (1)

An introduction to fundamental methods and techniques used in the synthesis and manipulation of inorganic compounds. The techniques used will include the synthesis, methods of purification and characterization of inorganic compounds. Corequisite: CHEM 24552. Prerequisite: CHEM 24116 and CHEM 24117 with a minimum grade of C in both.

CHEM 24562 - General Biochemistry (3)

An introductory course in biochemistry which deals with selected topics in the field. The description and function of amino acids, proteins, fats, nucleic acids, and certain carbohydrates will be discussed. Enzymes and their role in metabolic processes will be emphasized. Three hours of lecture and recitation per week. Prerequisite: CHEM 24342 with a minimum grade of C, or permission of instructor. (F)

CHEM 24563 - General Biochemistry Laboratory (1)

Experiments illustrating biochemical techniques and principles will be performed. One three-hour laboratory period per week. Co-requisite: CHEM 24562 General Biochemistry.

CHEM 24566 - Macromolecular Structure (3)

This course covers the modern methods that have defined the molecular bases for macromolecular interactions and their functions in biochemistry. Emphasis focuses on physical principles of macromolecular structure and interactions, and will describe modern methods. Prerequisites: CHEM 24562 and CHEM 24563.

CHEM 24567 - Macromolecular Structure Laboratory (1)

This laboratory course provides students with hands-on experience with some of the modern techniques used to analyze the four types of macromolecules, including interactions between macromolecules. Must be taken concurrently with CHEM 24566. Prerequisites: CHEM 24562 and CHEM 24563.

CHEM 24580 - Special Topics (1 to 3)

This is an in-depth study of special topics offered according to the student's needs and interests. Topics include: environmental chemistry, atomic and molecular structure, kinetics, industrial chemistry, polymer chemistry, computer applications in the laboratory, surface chemistry, and colloidal chemistry. Can be repeated with different

topics. Prerequisites: CHEM 24342 and CHEM 24532 or permission.

CHEM 24592 - Chemistry Seminar (1)

Students will prepare written and oral reports on a literature search of a chemistry topic. Prerequisite: CHEM 24342. (F, S)

COM - Communication

COM 29100 - Special Offering (1 to 4)

COM 29101 - Oral Communication for International Students (3)

Designed to meet the needs of international students desiring to improve their oral communication skills. Will include conversational and formal presentation activities. Meets five times per week. Does not fulfill COM 29102 requirement.

COM 29102 - Fundamentals of Oral Communication (3)

An overview of the theory and guided practice of the skills utilized in intrapersonal, interpersonal, group and public communication. The student will perform an interview, small group discussion, informative speech and persuasive speech. (F, S, SS) (MOTR COMM 100)

COM 29133 - Practicum in Debate and Forensics (1 to 4)

Participation in intercollegiate debate and forensic activities. May be repeated for up to four hours for further mastery. (F, S)

COM 29152 - Public Relations Practicum (1)

Practice in the principles of public relations. Students will work on promotional materials or activities. It is suggested that students complete COM 29260 before enrolling. This course is repeatable for a new, advanced, or expanded experience. (F, S)

COM 29200 - Special Offering (1 to 4)

Courses offered on only one occasion or variable issue-oriented courses which have the content described in the title. Credit and prerequisites as announced. Repeatable with topics changing.

COM 29210 - Communication Theory (3)

This course will cover a variety of communication theories that provide much of the basic foundation for the discipline. Students will learn about theories relating to the different areas of study in

communication (e.g. interpersonal, small group, organizational, rhetorical, public relations and mass media). Satisfactory completion of the course is part of the requirements for Advanced Standing within the School of Communication and Mass Media. (F)

COM 29225 - Intercultural Communication (3)

An analysis of how culture interacts with communication and an examination of issues and problems encountered when communicating across cultures. (F, S)

COM 29226 - Principles of Interviewing (3)

The study of interviewing principles for people-management skills. Provides the student with the opportunity to practice techniques appropriate for the following types of interviews: employment, orientation, goal-setting, problem-solving, appraisal and persuasion or selling.

COM 29230 - Public Speaking (3)

A study of the theory and principles of effective public speaking. The student will develop and present various types of public speeches with and without presentational aids. (F, S)

COM 29232 - Small Group Communication (3)

A study of group processes in the problem-solving setting. The focus is on problem solving, leadership, role development, cohesiveness and effective practitioners. Group participation outside the classroom will be expected. (F, S) (MOTR COMM 125)

COM 29235 - Introduction to Classical Rhetoric (3)

An introduction to the development and theories of rhetoric. The focus is on the ancient Greeks and Aristotle's Rhetoric as well as the Romans including Cicero and Quintilian. (S)

COM 29240 - Principles of Leadership (3)

An examination of the concept of leadership and its application in different aspects of modern society. The focus will be on techniques of leadership in decision-making and policy formulation and implementation. There will also be a discussion of leadership qualities necessary for the future. (S)

COM 29250 - Voice and Diction (3)

A study of the sound system of American English. Emphasis is placed on taxonomy of sounds using the International Phonetic Alphabet and on understanding the mechanisms of articulation, phonation and prosody as applied to broadcasting, theatre and speech pathology. Basic acoustics is introduced.

COM 29260 - Public Relations Techniques (3)

Introduction to the communication techniques of public relations including internal and external interpersonal communication networks and mediated communication. Recommended prerequisites: MMED 20130 and ENGL 10111 and ENGL 10112. (F, S)

COM 29310 - Communication Research Methods (3)

An introduction to the process of research and inquiry in the field of communication. This course surveys quantitative, qualitative and critical methodologies and provides students with tools to evaluate and conduct such studies. MATH 17114 General Statistics is recommended as a directed Northwest Core choice. Prerequisites: COM 29102; and ENGL 10111 and ENGL 10112, or ENGL 10115. (S)

COM 29325 - Listening Behavior and Skills (3)

An examination of listening behavior and its place in the communication process. The major interactive and perceptual processes involved in the reception of aural data are studied. Tests and exercises are presented to enable students to understand and improve their own listening skills. Prerequisite: COM 29102. (S)

COM 29332 - Propaganda and Persuasion (3)

Exploration of the symbolic means of engineering consent, focusing on techniques that foster intolerance and bigotry. The course focuses on theories of symbolic manipulation and theories of persuasion, and on analyzing actual propaganda campaigns and persuasive campaigns. (S)

COM 29335 - Interpersonal Communication (3)

A study of the theories of interpersonal communication. Experiences in the development of communication, anxiety awareness, verbal confrontation,

reinforcement and interpersonal trust are included. (F) (MOTR COMM 120)

COM 29336 - Nonverbal Communication (3)

An analysis of the fundamental forms of nonverbal communication. Attention is given to the use of the body in conscious and unconscious gestures, proxemics, kinesics and axis, and the effect of these on the environment and culture of the individual. (S)

COM 29338 - Advanced Practicum in Debate and Forensics (1 to 4)

Participation in intercollegiate debate and forensics activities. Prerequisite: Junior or senior standing. May be repeated for up to four hours for further mastery. (F, S)

COM 29341 - Argumentation and Debate (3)

A study of the theory of argumentation, logical argument construction, argument refutation and cross examination. The course involves the application of reflective thinking to problem solving. Students are given an opportunity to apply argumentation theory to law, scholarship, politics and business. (F, alternate years)

COM 29343 - Rhetoric of American Issues (3)

A survey of famous American orators and issues. The rhetorical and historical contexts of selected speeches and issues are emphasized. Prerequisite: COM 29235. (S, alt. years)

COM 29351 - Normal Language Development (2)

A study of the normal processes of developmental progression by which the child acquires the syntax, semantics, morphology and phonology of language.

COM 29352 - Advanced Public Relations Practicum (2)

Advanced practice in the principles of public relations. Students will work collaboratively to develop multiple public relations oriented materials and/or event related activities. This course is repeatable for a new, advanced or expanded experience. Prerequisite: COM 29152. (F, S)

COM 29360 - Principles of Public Relations (3)

An overview of public relations as practiced historically and in contemporary America. It provides a comprehensive foundation of

theoretical and applied knowledge necessary to become a public relations practitioner. Prerequisites: COM 29260 and MMED 20130. (F)

COM 29400 - Special Offering (1 to 4)

Courses offered on only one occasion or variable issue-oriented courses which have the content described in the title. Credit and prerequisites as announced. Repeatable with topics changing.

COM 29401 - Special Topics (1 to 3)

Provides concentrated study in special areas within speech communication. Topics vary semester to semester. Repeatable with topics changing. Prerequisites as announced.

COM 29402 - Current Topics in Communication (3)

This course introduces students to areas of current importance in the communication field. It builds upon the theory and research introduced in previous courses and gives students a global perspective of communications practice. Prerequisites: COM 29260 or consent of the instructor. May be repeated for credit with topics changing. (S, alt. years)

COM 29420 - Crisis Communication (3)

This course will prepare students to navigate the unique challenges communicators face during a crisis situation through the study of basic communication theory and practice, media relations, relevant laws and ethics, cross-cultural communication, international crisis communication, and communication coordination practices. (F, S)

COM 29425 - Knacktive (3)

Knacktive replicates the creative demands and intense teamwork atmosphere of a technology-oriented, professional marketing communications agency. Interested students must apply for a specific position on a team, participate in an interview, and be selected by the course faculty before registering. Prerequisites: Each position on a team has a minimum prerequisite and students can view the list on the Knacktive website, contact a Knacktive faculty member, or contact their respective department office for more information. (S)

COM 29432 - Organizational Communication (3)

A study of the spoken communication process in business and organizational settings and the major concepts which

influence organizational communication. Attention is directed toward the organizational elements, the communication system and improving organizational communication. (F)

COM 29460 - Public Relations Problems: Cases, Concepts, and Campaigns (3)

A study of the rationale underlying public relations campaigns, achieving specific public relations goals and solving a wide variety of public relations problems. Prerequisite: COM 29360. (S)

COM 29467 - Internship in Organizational Communication (1 to 3)

Allows students to gain practical experience by participating in on-site work with various types of organizational communication departments or organizations under the on-site supervision of an experienced business person. Consent of instructor required. Repeatable for new experience. (F, S, SS)

COM 29468 - Internship in Speech Communication (1 to 3)

Allows students to gain practical experience by participating in on-site work with various types of communication organizations under the on-site supervision of an experienced communication professional. Consent of instructor required. Repeatable for new experience. (F, S, SS)

COM 29469 - Internship in Public Relations (1 to 3)

Professional experience in public relations. The particular interests of the student are addressed through practical application with public relations practitioners. Prerequisites: Senior standing in public relations and consent of instructor. Repeatable for new experience. (F, S, SS)

COM 29480 - Methods of Teaching Speech/Theatre in the Secondary School (3)

A preparation for meeting the special problems of teaching speech and theatre in the secondary school. This course includes a formal presentation of the student's professional portfolio. Prerequisite: Senior standing and admittance to Teacher Education. (F)

COM 29495 - Independent Study in Communication (1 to 3)

Varies based on instructor/topic. Repeatable with topics changing.

COM 29498 - Senior Capstone (3)

Designed to prepare the communication student to enter the post-college world in the communication field, this course summarizes communication trends, research techniques, discipline-oriented writing and presentation skills, including an emphasis on application to team-based projects. Prerequisite: Must meet the current departmental cut score(s) on the current standardized general education test(s) (contact the department office for specific information), and have the permission of the department chair in order to enroll. (F)

COM 29499 - Senior Seminar (1)

Designed to prepare the speech communication student to enter the post-college world of advanced study of the communication field, this course summarizes communication trends, research techniques, discipline-oriented writing skills and presentation skills. This course includes a formal presentation of the student's professional portfolio. Prerequisite: Must meet the current departmental cut score(s) on the current standardized general education test(s) (contact the department office for specific information), and have the permission of the department chair in order to enroll. (F, S)

COM 29500 - Special Offering (1 to 4)

Courses which are offered on only one occasion or variable issue-oriented courses which have the content described in the title. Credit and prerequisites as announced. Repeatable with topics changing.

COM 29537 - Independent Study in Speech Science (1 to 2)

Repeatable with topics changing.

COM 29538 - Independent Study in Speech Education (1 to 2)

Repeatable with topics changing.

COM 29539 - Independent Study in Speech Media (1 to 2)

Repeatable with topics changing.

COM 29553 - Language, Speech, and Hearing of the Exceptional Child and Adult (3)

A study for the special education teacher in the identification and referral of exceptional individuals with communication disorders. Topics include the development, characteristics and disorders of language,

speech and hearing in the exceptional individual. Focus is on establishing interactions that are supportive of communicatively handicapped individuals in special education programs. (F, SS)

COM 29566 - Special Topics in Speech Science (1 to 4)

Repeatable with topics changing.

COM 29567 - Special Topics in Contemporary Issues (1 to 4)

Repeatable with topics changing.

COM 29568 - Special Topics in Rhetoric (1 to 4)

Repeatable with topics changing.

COM 29581 - Philosophical Bases of Speech Education (3)

An examination of the historical and philosophical bases for teaching speech in the secondary school.

CORE - Northwest Core Interdisciplinary Engagement**Interdisciplinary Engagement**

The Interdisciplinary Engagement courses are part of the Northwest Core. These courses are offered as special offerings which interface various disciplines. When available, two or more disciplines will be linked and the student will select which Northwest Core requirement they wish to fulfill. For example, in a given semester CORE 90207 Interdisciplinary Engagement: Western Experience may be paired with CORE 90210 Interdisciplinary Engagement: Literature. The student will enroll in the course number which fulfills the desired Northwest Core requirement. Students should contact their advisors for assistance in choosing these courses. Availability of these courses will be posted online. Credit hours will vary depending on the course linkage. Students cannot take more than three Interdisciplinary Engagement courses to fulfill the requirements of the Northwest Core.

CORE 90201 - Interdisciplinary Engagement: Oral Communication (3 to 4)**CORE 90202 - Interdisciplinary Engagement: Written Communication A (3 to 4)**

CORE 90203 - Interdisciplinary
Engagement: Written Communication B (3 to 4)

CORE 90204 - Interdisciplinary
Engagement: Mathematical Reasoning (3 to 4)

CORE 90205 - Interdisciplinary
Engagement: Digital Literacy (3 to 4)

CORE 90206 - Interdisciplinary
Engagement: Global Experiences (3 to 4)

CORE 90207 - Interdisciplinary
Engagement: Western Experiences (3 to 4)

CORE 90208 - Interdisciplinary
Engagement: American Experiences-History (3 to 4)

CORE 90209 - Interdisciplinary
Engagement: American Experiences-Political Science (3 to 4)

CORE 90210 - Interdisciplinary
Engagement: Literature (3 to 4)

CORE 90211 - Interdisciplinary
Engagement: Fine Arts (3 to 4)

CORE 90212 - Interdisciplinary
Engagement: Social/Behavioral Sciences (3 to 4)

CORE 90213 - Interdisciplinary
Engagement: Life Sciences (3 to 4)

CORE 90214 - Interdisciplinary
Engagement: Physical Sciences (3 to 4)

CRIM - Criminology

CRIM 46205 - Introduction to Criminal Justice (3)

This course is an introduction to the agencies, institutions, and processes involved in the criminal justice system: law enforcement, the courts, and corrections. It examines the history of these institutions and addresses contemporary social issues relevant to criminal justice in the United States. It is cross-listed with POLS 34205 Introduction to Criminal Justice.

CRIM 46210 - Introduction to Criminology (3)

This course introduces the theory and research regarding the causes of criminal behavior. Concepts of crime as well as crime

typologies including violent crime, political crime, and economic crimes are explored. It is cross-listed with SOC 35321 Criminology.

CRIM 46215 - Introduction to Corrections (3)

This course is an introduction to the history, concepts, and realities of the punishment of crime through correctional institutions. It investigates the functions of corrections in the supervision, punishment, and treatment of offenders with an emphasis on the increasing social significance and diversity of the penal system in American society. It is cross-listed with SOC 35240 Introduction to Corrections.

CRIM 46216 - Probation and Parole (3)

This course examines the practices and procedures of probation and parole in the United States within the adult and juvenile systems. It is cross-listed with SOC 35215 Probation and Parole.

CRIM 46301 - Research Methods in Criminology and Criminal Justice (3)

An introduction to the scientific method as it is applied to criminological research. Course content includes a study of basic research issues and strategies utilized by criminological researchers. Basic issues covered include research ethics, causality, the relationship between theory and research methods, and the use of qualitative and quantitative data collection and analysis. Prerequisites: MATH 17114 and either CRIM 46210 or SOC 35321. (F, S)

CRIM 46302 - Police and Society (3)

This course is an introduction to police in American society. The material is organized around the development and structure of the police as an integral part of the criminal justice system. The course addresses issues such as the tension between the coercive power of the police and the expectations of freedom in American society, the ability of the police to deal with crime, the nature and effects of police subculture, issues of profiling, stereotyping, corruption, and policing strategies for improving effectiveness and community relations. It is cross-listed with SOC 35375 Police and Society.

CRIM 46303 - Delinquency (3)

This course explores the theories and social contexts of juvenile delinquency. It examines current trends in juvenile delinquency and considers the effectiveness of various

programs and policies in response to juvenile delinquency in the United States. It is cross-listed with SOC 35320 Delinquency.

CRIM 46305 - Evidence and Investigation (3)

This course examines the techniques of investigation and the processing of evidence by the criminal justice system. It is cross-listed with SOC 35305 Evidence and Investigation.

CRIM 46315 - Deviant Behavior (3)

This course is an examination of rule/norm-breaking behavior. It focuses on the nature and meaning of deviance and social control. This course investigates theories of deviance and also types of deviance. It is cross-listed with SOC 35323 Deviant Behavior.

CRIM 46405 - Victimology (3)

This course explores the history of victimology and theories of victimization. It provides an in-depth examination of crime victims, the effects of victimization, experiences of victims within the criminal justice system, and victim advocacy. It is cross-listed with SOC 35405 Victimization.

CRIM 46475 - Applied Criminology (3)

In this course, students will explore the major and contemporary theories of crime and how they are applied to criminological research, policies, and practices.

Prerequisites: CRIM 46210 Introduction to Criminology.

CRIM 46480 - Special Topics in Criminology and Criminal Justice (1 to 6)

Courses offered on only one occasion or variable issue-oriented courses which have the content described in the title. Credits and prerequisites as announced. Course may be repeated for new topics to earn no more than 6 credit hours in total, subject to the approval of the instructor.

CRIM 46490 - Independent Study in Criminology & Criminal Justice (1 to 3)

Offered by special arrangement with the consent of the instructor involved and the department chairperson. Repeatable for new topics up to 9 credit hours.

CRIM 46495 - Internship in Criminology and Criminal Justice (1 to 6)

Provides direct contact with agencies and paraprofessional experiences in the field of criminology and criminal justice. Students will

apply knowledge from criminology and criminal justice courses. Credit hours will vary according to the nature and duration of the internship. Repeatable for up to 6 credit hours of Criminology & Criminal Justice electives.

CRIM 46499 - Research Seminar in Criminology and Criminal Justice (3)

An intensive seminar in issues pertinent to the emphases within the major purposed to produce a research paper or project and class presentation of the student's choice in consultation with the instructor. Students should demonstrate knowledge and skills acquired in the degree program within the final paper/project, including appropriate methodological application and statistical analysis. Repeatable for new experiences up to 9 credit hours. Prerequisites: CRIM 46301, POLS 34205, and completion of 39 hours within the degree program prior to taking the course. (F, S)

CSIS - Computer Science Info Systems

CSIS 44100 - Special Offering (1 to 3)

CSIS 44101 - Foundations of Computing (3)

An introduction to fundamental concepts in computing. Emphasis will include the impact of computing in academic disciplines and all aspects of society. (F, S)

CSIS 44125 - Special Topics (1 to 4)

Topics will vary but the rigor level will be appropriate for beginning undergraduate students.

CSIS 44130 - Computers and Information Technology (3)

Introduction to computer systems. Topics include integrated office applications, hardware, software, Internet, and the rights and responsibilities of computer users. (F, S, SS)

CSIS 44141 - Computer Programming I (3)

An introduction to object-oriented programming; analyze problems, design and implement solutions. Prerequisites: 2 units of high school algebra and either CSIS 44101 OR CSIS 44130 OR EDCI 62130 with a grade of C or better, or concurrent enrollment in CSIS 44101 OR CSIS 44130 OR EDCI 62130 or School director's permission. (F, S)

CSIS 44144 - Web Development I (3)

This is an introductory course that covers the concepts necessary for the construction of web pages and web sites with HTML and CSS. The student will learn to control the format and the layout of elements with CSS. There will be a culminating project at the end. Prerequisite: CSIS 44101 or CSIS 44130 or EDCI 62130 with a grade of C or better. (F, S)

CSIS 44149 - Scientific Computing (3)

Tools and techniques for using a computer to solve numeric problems with an emphasis on scientific and mathematical applications. Prerequisites: MATH 17117 or MATH 17120 and a course in the digital literacy section of The Northwest Core with a grade of C or better in each.

CSIS 44155 - Introduction to Data Science and Data Mining (3)

This course provides an overview of data science, modern data mining techniques, processes and tools with concrete examples. Selected case studies of data mining applications in different domain areas are presented within the context of the data mining processes. This course serves as an introduction to the basics of data science and emphasizes the connections between data mining theory and its applications in industry. (F, Odd years)

CSIS 44181 - Introduction to Cybersecurity (3)

An overview of the cybersecurity landscape as well as national and international perspectives on the field. The legal environment that impacts cybersecurity as well as predominant threat actors will also be covered. Prerequisites: CSIS 44101 or CSIS 44130 with a grade of C or better. (S)

CSIS 44200 - Special Offering (1 to 4)

CSIS 44241 - Computer Programming II (3)

Intermediate computer programming, design of algorithms and introduction to data structures. Prerequisites: CSIS 44141 with a grade of C or better. (F, S)

CSIS 44242 - Data Structures (3)

Abstract data structures including stacks, queues, lists, and trees. File structures emphasizing random access files. Construction of graphical user interfaces. Prerequisite: CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor. (F, S)

CSIS 44249 - Building Blocks of Theoretical Computer Science (3)

Foundational underpinnings of topics central to theoretical Computer Science. Topics include (but are not limited to) Logic and Sets, Proofs, Evaluation of Algorithms, Automata, Graphs, Recursion, Computability, and Grammars. Prerequisites: Sophomore standing and a minimum grade of C in CSIS 44141 and any of the following: MATH 17117 or MATH 17118 or MATH 17120. (F, S)

CSIS 44296 - Professional Development Seminar (3)

Emphasis on ethical issues in the workplace and professional development for the field of computing. Prerequisites: Sophomore standing and CSIS 44141. (F)

CSIS 44300 - Special Offering (1 to 4)

CSIS 44312 - Information Technology Hardware and Software (3)

Course provides the hardware and software technology background to enable systems development personnel to understand trade-offs in computer architecture for effective use in a business environment. System architecture is explored for single use, central, and networked computing systems; single and multi-user operating systems. Prerequisite: CSIS 44101 or CSIS 44130 or EDCI 62130 with a grade of C or better.

CSIS 44317 - Management Information Systems (3)

A study of business systems and their relationship with computer systems. The interaction of various systems of the organization and computer technology is emphasized. Prerequisites: MGMT 54313 and either CSIS 44101 or CSIS 44130, each with a grade of C or better. (F, S, SS)

CSIS 44320 - Advanced Word Processing (1)

Advanced word processing skills and concepts will be emphasized to manipulate, organize, and enhance documents. Prerequisite: CSIS 44101 or CSIS 44130 or EDCI 62130 with a grade of C or better. (S)

CSIS 44330 - Presentation Graphics (1)

Concepts, design elements, and preparation of presentation graphics. Projects with electronic presentation and imaging software will be completed. Prerequisite:

CSIS 44101 or CSIS 44130 or EDCI 62130 with a grade of C or better. (S)

CSIS 44334 - Web Development II (3)

This course will focus on building the core competencies needed to write the HTML and CSS to develop and deploy web projects on a web server. The course is project based and will have a culminating project at the end. Prerequisite: CSIS 44144 with a minimum grade of C. (F)

CSIS 44335 - Script Programming (3)

An introduction to a scripting language that enables web browser interactivity. Prerequisites: CSIS 44334 and some previous programming experience (CSIS 44141 or CSIS 44144) is required with a minimum grade of C in all prerequisites.

CSIS 44336 - Spreadsheet Applications (1)

A course on the intensive use of spreadsheets including features such as financial functions, querying a list, web queries for real-time data and what-if analysis. Prerequisites: CSIS 44101 or CSIS 44130 or EDCI 62130 with a grade of C or better, or equivalent course. (F, SS even years)

CSIS 44337 - Advanced Spreadsheets and Charting (1)

A course on the intensive use of spreadsheet features such as using templates, data consolidation, macros, solver, scenarios, and pivot tables and charts. Prerequisite: CSIS 44336 with a minimum grade of C. (F, SS even years)

CSIS 44340 - Digital Media (1)

Designing and using digital media to produce multimedia projects with audio and video. Prerequisite: CSIS 44101 or CSIS 44130 or EDCI 62130 with a grade of C or better. (S)

CSIS 44343 - Digital Technologies (3)

An implementation of technologies relevant in today's business environment to effectively communicate and collaborate with diverse customers and users. Prerequisite: CSIS 44101 or CSIS 44130 or EDCI 62130 with a grade of C or better, or equivalent course. (F)

CSIS 44345 - Computer Organization (3)

Introduction to computer systems organization with emphasis on machine language and assembler programming. Prerequisites: CSIS 44242, with a grade of C

or better, and one semester of chemistry, physics, or physical science. (S)

CSIS 44346 - Database Applications (1)

Applications of database management software for creating, querying, and manipulating databases. Prerequisite: CSIS 44101 or CSIS 44130 or EDCI 62130 with a grade of C or better. (F, SS even years)

CSIS 44349 - A Survey of Algorithms (3)

A study of algorithms central to the major areas of computer science. Prerequisites: CSIS 44242 and CSIS 44249 each with a grade of C or better. (S)

CSIS 44351 - Foundations of Game Development (3)

This course will blend theory and practice to provide students with a solid understanding of the foundations of game design and development. Prerequisite: CSIS 44242 with a minimum grade of C. (S)

CSIS 44356 - Network Fundamentals (3)

Course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The Open Systems Interconnection (OSI) and Transport Control Protocol (TCP) layered models are used to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media and operations are introduced. Prerequisite for undergraduate students: CSIS 44130 or CSIS 44101 with a grade of C or better. Prerequisite for graduate students: CSIS 44542 with a grade of B or better, or concurrent enrollment in CSIS 44542, or consent of instructor. (F, S)

CSIS 44359 - Secure System Administration (3)

Computer and network systems are pervasive in today's work and home environments. This course will give students knowledge and experience setting up, securing and maintaining the various components that make up these systems. Students will be able to perform these operations using both physical and virtual environments. Prerequisite: CSIS 44356 with a minimum grade of C. (S, odd years)

CSIS 44382 - Secure Programming (3)

A course on security concepts as it relates to building applications. The course examines

design issues and implementation strategies for secure software development. Additional topics will be drawn from security issues in concurrent programming, scripting languages, database systems, and web servers. Prerequisites: CSIS 44242 and CSIS 44356 with a grade of C or better. (F)

CSIS 44386 - Digital Forensics (3)

Introduces the fundamentals of digital forensics, analysis, and investigations. Students will gain experience using investigative skills and tools to recover forensics data and will gain a better understanding of the science, technology, procedures, and law of acquiring and analyzing digital evidence from computers and devices. Prerequisites: CSIS 44241 and CSIS 44356 with a grade of C or better. (F)

CSIS 44400 - Special Offering (1 to 3)

CSIS 44410 - Coordination of Cooperative Education (3)

Selection, development, and presentation of materials used in supervision of students in the work place. Includes methods, techniques, evaluation, current practices, and trends in teaching and supervising of COE. (F)

CSIS 44411 - Systems Analysis and Design (3)

A study of the procedures necessary to analyze and design computerized business systems. Written and oral proposals based on design methods and techniques will be used to develop the student's analysis and communication skills. (F)

CSIS 44413 - Visualization (3)

This course covers the design and development of exploratory diagrams and graphics for various data sets. The course may include concepts such as chart and graph design, networks, topological graphs, display of multi-dimensional data, effective use of space and color, animations, interactive visualizations, mapping, cartography, web data acquisition, and advanced visualization tools. Prerequisites: MATH 17114 and CSIS 44141. (F)

CSIS 44418 - Information Technology Project Management (3)

A detailed study of project management including life cycle, scope, integration, controls and the use of project management software. Prerequisite: CSIS 44317 and either

CSIS 44411 or CSIS 44561, each with a grade of C or better. (S)

CSIS 44425 - Knacktive (3)

Knacktive replicates the creative demands and intense teamwork atmosphere of a technology-oriented, professional marketing communications agency. Interested students must apply for a specific position on a team, participate in an interview, and be selected by the course faculty before registering. Prerequisites: Each position on a team has a minimum prerequisite and students can view the list on the Knacktive website, contact a Knacktive faculty member, or contact their respective department office for more information. Course is repeatable for additional experience. (S)

CSIS 44432 - Business Intelligence and Analytics (3)

This course will introduce students to various techniques available to extract suitable information (business intelligence, BI) from the large volume of data an organization can use to help managers make better business decisions. (S)

CSIS 44440 - Internet of Things (3)

The Internet of Things is a hands-on introduction to the design, development, and deployment of Internet of Things devices. Topics include electronics, programming, web services, and security. Prerequisite: CSIS 44242 with a minimum grade of C.

CSIS 44443 - Mobile Computing-iOS (3)

Students will learn the intricacies of mobile computing development with an emphasis on the iOS platform. Prerequisite: CSIS 44242 with a grade of C or better. (F, S)

CSIS 44444 - Mobile Computing-Android (3)

Students will learn the intricacies of mobile computing development with an emphasis on the Android platform. Prerequisite: CSIS 44242 with a grade of C or better. (F, S)

CSIS 44447 - Current Topics in Office Information Systems (1 to 3)

Topics selected to emphasize the current developments in office systems. May be repeated provided the content is different.

CSIS 44451 - Advanced Topics in Mobile Computing (3)

This course covers advanced and emerging topics in mobile computing on one or more

platforms. Prerequisites: CSIS 44443 OR CSIS 44444 with a minimum grade of a C.

CSIS 44454 - Senior Capstone: Business Technology Integration (3)

A capstone course designed to integrate software, problem solving techniques, and collaboration skills gained through courses and apply that knowledge in situations faced by those in a technology-driven environment. Prerequisites: Senior standing and CSIS 44320, CSIS 44330, CSIS 44336, CSIS 44337, CSIS 44340, CSIS 44343, and CSIS 44346, all with a grade of C or better, or concurrent enrollment in CSIS 44320, CSIS 44330, and CSIS 44340, or consent of instructor. (S)

CSIS 44457 - Applied Cryptography (3)

Cryptography is the primary tool used to protect information within digital communication systems. This course provides students with an in-depth understanding of the cryptographic tools and algorithms currently in use. We will discuss the benefits and limitations of these algorithms and learn how to securely use each in real-world applications. Prerequisites: CSIS 44356 and CSIS 44249, each with a minimum grade of C. (F, odd years)

CSIS 44460 - Database Systems (3)

An introduction to database systems, including data modeling, design, and implementation. Prerequisite for undergraduate students: CSIS 44241, with a grade of C or better. Prerequisite for graduate students: CSIS 44542 with a grade of B or better, or concurrent enrollment in CSIS 44542, or consent of instructor. (F, S)

CSIS 44464 - User Experience/User Interface Design (3)

Principles and practices for designing, implementing and evaluating human computer interfaces. Exploration on current HCI technologies. Prerequisites: Proficiency in an object-oriented programming language such as Java, C++ or C#.NET and coursework or experience in either software engineering or systems analysis and design or CSIS 44563 with a grade of C or better.

CSIS 44470 - Implementing Business and Marketing Education Programs (3)

Fundamental concepts in business, marketing, and cooperative education programs are studied for implementing effective programs. The study includes organization and development of curriculum,

student organizations, funding, advisory committees, and program evaluation. (S)

CSIS 44471 - Practicum in Computer Science Teaching (1)

Supervised practice in an educational computing environment. Through the use of journals, observation by staff members and curriculum projects, students will develop their teaching skills, plan teaching strategies, and develop organizational and instructional competencies. May be repeated for additional experience. Prerequisites: 10 hours of computer science and 5 hours of education. (F, S)

CSIS 44480 - Methods of Teaching Business and Marketing (3)

The selection, development and presentation of the business, marketing, and cooperative education curriculum. Includes methods, techniques, assessment, and current issues and trends in business education. Prerequisite: Admittance to Teacher Education. (S)

CSIS 44481 - Ethical Hacking (3)

A course on penetration testing (ethical hacking) to uncover security vulnerabilities. Topics covered include information gathering, vulnerability assessment, and various techniques for exploiting and hacking systems. Prerequisites: CSIS 44382 and CSIS 44296 with a grade of C or better. (S)

CSIS 44484 - Cyber Risk Management and Incident Response (3)

An introduction to risk management concepts as it pertains to computer systems and computer security incident response. Prerequisites: CSIS 44386 with a grade of C or better. (S)

CSIS 44495 - Internship in Computer Science/Information Systems (1 to 3)

Prerequisites: 9 hours in computer science/information systems and permission of department chairperson. May be repeated for new experience. (F, S, SS)

CSIS 44499 - Independent Study (1 to 3)

Prerequisite: Consent of instructor. Repeatable for new material. (F, S)

CSIS 44500 - Special Offering (1 to 4)

CSIS 44515 - Effective Assessment (3)

Students will develop the knowledge and skills necessary to assess learning effectively. Topics include effective assessments, basic

psychometric statistics, grading, communicating assessment information, testing ethics, locating and evaluating measures, and assessments used in decision making. (Fall, odd years; Summer, even years)

CSIS 44516 - Current Topics in Information Systems (1 to 3)

Selected topics in information systems emphasizing current development in the field. May be repeated provided the content is different. Prerequisites: CSIS 44317 with a minimum grade of C and one high-level programming language with a minimum grade of C or consent of instructor.

CSIS 44517 - Big Data (3)

An introduction to the design of data-intensive, reliable, scalable, and maintainable systems. Includes an introduction to current and relevant tools, technologies, design principles, and frameworks. This may include concepts such as parallel programming, distributed computing, distributed file systems, MapReduce, regular expressions, and the ingesting and processing of data at rest and data in motion. Tools used may include Hadoop, HDFS, Pig, Hive, Spark, Storm, Kafka, Mahout, MLlib, etc. Undergraduate prerequisites: CSIS 44242 with a grade of C or better. Graduate prerequisite: CSIS 44542 with a grade of B or better, or concurrent enrollment in CSIS 44542, or consent of instructor. (F)

CSIS 44520 - Web Mining (3)

The Web, the largest publicly accessible data source in the world, has grown at an unprecedented pace during the past decade. The rapidly changing news and events make the Internet a non-stationary environment, which in turn generates rapidly changing data. This course examines the unique characteristics of Web from a data mining perspective. It provides a review of data mining foundations and covers basic concepts of text mining, information retrieval, web search and data mining applications on social media. Undergraduate prerequisite: A grade of C or better in CSIS 44242. Graduate prerequisite: A grade of C or better in CSIS 44642. (S)

CSIS 44525 - Theory and Implementation of Programming Languages (3)

Syntax and semantics of programming languages; the translation process; and features of object-oriented languages and functional programming. Undergraduate

prerequisite: CSIS 44242 and CSIS 44249, with grades of C or better, or consent of instructor. Graduate prerequisite: CSIS 44542 with a grade of B or better, or concurrent enrollment in CSIS 44542, or consent of instructor. (F)

CSIS 44542 - Object-Oriented Programming (3)

Provides fast-paced coverage of object-oriented programming concepts. Students will gain extensive programming experience. Prerequisites: Graduate standing and an undergraduate course in data structures with a grade of C or better; no previous experience with object-oriented programming is necessary. (F, S)

CSIS 44550 - Operating Systems (3)

Course covers concepts of operating systems, including process and storage management, protection, security and distributed systems. Undergraduate prerequisite: CSIS 44345, with a grade of C or better. Graduate prerequisite: CSIS 44542 with a grade of B or better, or concurrent enrollment in CSIS 44542, or consent of instructor. (F)

CSIS 44555 - Network Security (3)

A study of computer network security issues. Includes hands-on experience with server applications as well as some practice in client/server programming. Undergraduate prerequisite: CSIS 44356 with a grade of C or better. Graduate prerequisite: CSIS 44542 with a grade of B or better, or concurrent enrollment in CSIS 44542, or consent of instructor.

CSIS 44560 - Advanced Topics in Database Systems (3)

Advanced topics in database systems, including database administration, distributed databases, and data warehousing and object-oriented databases. Hands-on experience using a DBMS in a client/server environment. Undergraduate prerequisites: CSIS 44241 and CSIS 44460, each with a grade of C or better. Graduate prerequisite: CSIS 44542 with a grade of B or better, or concurrent enrollment in CSIS 44542, or consent of instructor. (F, S)

CSIS 44561 - Software Engineering Principles (3)

The underlying principles of software engineering are covered in this course. Topics include software process models, requirements engineering, software design

and architecture, implementation, testing, and user interface design. Prerequisites: CSIS 44242 and CSIS 44460 with a grade of C or better. (F)

CSIS 44562 - Software Engineering Practice (3)

A software development practicum in which students apply concepts learned throughout the curriculum in order to develop the real-world applications. Prerequisite: CSIS 44561 with a grade of C or better. (S)

CSIS 44563 - Developing Web Applications and Services (3)

Technologies and protocols supporting web applications and web services. Students gain experience in client-side and server-side programming. Undergraduate prerequisites: CSIS 44241 and CSIS 44460, each with a grade of C or better. Graduate prerequisite: CSIS 44542 with a grade of B or better, or concurrent enrollment in CSIS 44542, or consent of instructor. (F, S)

CSIS 44566 - Machine Learning (3)

This course will introduce fundamental concepts and techniques for applying machine learning to data sets. This includes exploring data features, data cleaning, classification methods, other predictive models, unsupervised learning techniques, publishing models as a service and appropriately communicating analysis results. Undergraduate prerequisite: CSIS 44242 with a grade of C or better. Graduate prerequisite: CSIS 44542 with a grade of B or better, or consent of instructor.

CSIS 44582 - Technology Curriculum and Integration (3)

An examination of standards, and curriculum for the integration of technology in educational and business environments. The integration of technology throughout K-12 classrooms will be emphasized. (S, even years)

CSIS 44585 - Instructional Technology and the Learning Process (3)

An in-depth study of the cognitive process as it relates to the technology-enhanced classroom. (Spring, even years)

CSIS 44590 - Current Topics in Computer Science (1 to 3)

Courses emphasizing the current developments in computer science which are

offered according to student need and interest, and have the content described in the title. May be repeated provided the content is different. (F, S)

CSIS 44599 - Special Projects (1 to 6)

Study of special topics as related to computer science. Prerequisites: 30 hours in the department and consent of instructor. Repeatable for additional experience, new material, and progression of study. (F, S)

ECON - Economics

ECON 52130 - Survey of Economics (3)

This course is a one semester survey of economics. Topics include scarcity and resource allocation; supply and demand; the nature of households and firms, and their interaction in markets; money and banking; gross domestic product determination; and government economic policies. (MOTR ECON 100)

ECON 52150 - Principles of Macroeconomics (3)

An introduction to the fundamental principles of macroeconomic analysis. The basic principles relating to aggregate supply and demand; the determination of national income, employment and price level; money and banking; monetary and fiscal policies; and alternative economic systems are studied. (MOTR ECON 101)

ECON 52151 - Principles of Microeconomics (3)

An introduction to the fundamental principles of microeconomic analysis. The basic principles relating to the decision-making by the individual household and the individual firm under different market structures, the allocation of society's resources and international trade and balance of payments are studied. (MOTR ECON 102)

ECON 52351 - Macroeconomic Theory (3)

A study of the determination of aggregate income, employment and price level as well as the interactions of the various markets (goods, labor, money, and bonds) within the context of a general equilibrium model. Prerequisites: ECON 52150 and ECON 52151.

ECON 52352 - Money, Credit, and Banking (3)

A study of the history, theory, and practice of money and banking. Commercial banking, central banking, and monetary policy are

discussed and their impact on the economy is examined within the framework of monetary theory. Prerequisite: ECON 52150.

ECON 52353 - Microeconomic Theory (3)

An analysis of consumer choice, exchange, production and pricing under various market structures in a neoclassical context. Developing the tools of microeconomics and their application to real world situations are strongly emphasized. Prerequisites: ECON 52150 and ECON 52151.

ECON 52354 - Labor Economics (3)

A study of economic theory and evidence related to labor supply and demand; the wage structure within the economy; labor's share of national income; unemployment, human resource development, poverty and labor market discrimination; the economic effects of unions; and other issues related to the employment of human resources and labor-management relations. Prerequisites: ECON 52150 and ECON 52151.

ECON 52361 - Sports Economics (3)

This course investigates questions relating to the contribution of professional and recreational sports to social welfare. The general objective of the course is to apply economic concepts and ideas to the sports industry. Prerequisite: ECON 52151.

ECON 52362 - Comparative Economic Systems (3)

How market, mixed, planned, and developing economic systems are organized and function to obtain major economic, political and social goals. Prerequisites: ECON 52150 and POLS 34102.

ECON 52425 - Internship in Economics (1 to 3)

Economics majors may, with approval from the School Director, enroll in an internship section. This is recommended for students with junior or senior standing. This course is repeatable for new experience.

ECON 52450 - International Economics (3)

A study of modern theories in international trade and finance and current trends and issues in international economic relations. Prerequisites: ECON 52150 and ECON 52151.

ECON 52451 - Econometrics (3)

Foundations of econometrics. Analysis of linear regression, non-linear regression and computer simulation models. The problems of parameter estimation, verification and the

prediction of economic magnitudes are studied. Prerequisites: ECON 52150 and ECON 52151, MATH 17114. (S, odd years)

ECON 52458 - Forecasting Business Conditions (3)

A study of applied economics encompassing measurement, analysis and prediction of business conditions at the national, regional and industrial levels. Prerequisites: ECON 52150, ECON 52151 and MATH 17114 and MATH 17118. (S, even years)

ECON 52459 - Independent Study in Economics (1 to 3)

Economics majors may, with approval from the School Director, enroll in an independent study section. The approval must be received during the term preceding enrollment. This course is repeatable with topics changing.

EDCI - Education: Curriculum & Instruction

EDCI 62107 - Ecology and Developmental Foundations of Education (2)

Beginning education students are introduced to the systemic relationships in which they develop as social and cultural beings. Through intentionally designed field experiences, students are oriented to the field of education and guided to examine the direct and indirect influences that impact teaching and learning. These influences include but are not limited to immediate family, interactions between school, home and community, federal and regional mandates and laws, as well as cultural and generational beliefs. Through intentionally designed field work and guided discussion, students will learn to interpret their observations and 'noticings' from the lens of developmental and learning theories. The course includes 10 hours of field experiences. Co-requisite: EDCI 62113.

EDCI 62108 - Introduction to Curriculum, Instruction and Assessment (2)

This course builds on the experiences of students and focuses on the development of curriculum and instruction based on the unique needs of individual students and culturally responsive pedagogy. Candidates will be introduced to national and state standards that frame curriculum developmental while at the same time realizing that instruction is driven by the analysis of student assessment results. Candidates will examine the foundation of

assessment planning as well as the tools necessary to use assessment as the impetus for developing instruction that meets the needs of all learners. This course requires 10 hours of field experience work. Co-requisite EDCI 62116.

EDCI 62109 - Positive Communication in an Inclusive Classroom (2)

This course will provide candidates with knowledge and understanding about collaborating with various stakeholders to create positive inclusive classrooms to foster student engagement, to meet the needs of diverse learners, to implement multiple teaching/learning strategies, to utilize accommodations/modifications, and to effectively manage a classroom. This course provides candidates with knowledge and understanding about the history of special education and inclusion, sources of referral to parents and teachers, identification procedures for individuals with disabilities (including the impact of language, culture, environment and mental health issues), inclusive methods for teaching students with disabilities, those with gifts and talents, and English language learners. Candidates will be introduced to factors to consider when developing an inclusive and positive classroom environment such as emotional intelligence, strengths-based teaching, and preventative strategies. This course will offer an introduction to communication and its importance in teaching and learning, including verbal and non-verbal, media assisted, and socio-cultural differences. The course requires 10 hours of field experiences. Co-requisite: EDCI 62119.

EDCI 62110 - Strategies for College Reading (1)

A basic course designed to improve student reading ability through group and individualized instruction for students who need additional reading skills to succeed at the University level. (F, S)

EDCI 62111 - Ecology of Teaching (1)

Beginning education students are introduced to the systemic relationships in which they develop as social and cultural beings. Through intentionally designed field experiences, students are oriented to the field of education and guided to examine the direct and indirect influences that impact teaching and learning. These influences include but are not limited to immediate family, interactions between school, home and community, federal and regional mandates and laws, as well as cultural and

generational beliefs. This course requires 5 hours of field work in placement assigned by the instructor.

EDCI 62112 - Developmental Foundations (1)

This field experience-based course introduces students to methods of observation and noticing of developmental constructs in educational settings. Through intentionally designed field work and guided discussion, students will learn to interpret their observations and noticings from the lens of developmental and learning theories. Emphasis is placed on facilitating professional growth by acknowledging and reinforcing the importance of developmental foundations in educational goal-setting, developing an awareness of bias and assumptions in interpreting data, and the need to engage in culturally responsive practice. This course requires 10 hours of field work in placements assigned/approved by the instructor.

EDCI 62113 - Professional Learning Community I (1)

Professional Learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in prior coursework. By working in small groups of colleagues and peers, emerging learning will be transparent, targeted, and collaborative.

EDCI 62114 - Introduction to Curriculum and Instruction (1)

This course/module builds on the experiences of students in the Developmental Foundations module and focuses on the development of curriculum and instruction based on the unique needs of individual students and culturally responsive pedagogy. Candidates will be introduced to national and state standards that frame curriculum development while at the same time realizing that instruction is driven by the analysis of student assessment results. This course requires 3-5 hours of field experience work.

EDCI 62115 - Principles of Assessment (1)

This module will serve as an introduction to the principles of assessment. Candidates will examine the foundation of assessment planning as well as the tools necessary to use assessment as the impetus for developing instruction that meet the needs of all learners. This course requires 3-5 hours of field experience work.

EDCI 62116 - Professional Learning Community II (1)

Professional Learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in prior coursework. By working in small groups of colleagues and peers, emerging learning will be transparent, targeted, and collaborative.

EDCI 62117 - Inclusive Classrooms and Positive Learning Environments (1)

This course will provide candidates with knowledge and understanding about the history of special education and inclusion, sources of referral to parents and teachers, identification procedures for individuals with disabilities (including the impact of language, culture, environment, and mental health issues), inclusive methods for teaching students with disabilities, those with gifts and talents, and English language learners. Candidates will be introduced to factors to consider when developing an inclusive and positive classroom environment such as emotional intelligence, strengths-based teaching, preventive strategies, student engagement strategies, and classroom management (including time, space, transitions, and procedures). A service project of 15 hours of interacting with individuals with disabilities is required.

EDCI 62118 - Teaching is Communication (1)

This course will offer an introduction to communication and its importance in teaching and learning, including verbal and non-verbal, media assisted, and socio-cultural differences. This course requires 3-5 hours of field experience work.

EDCI 62119 - Professional Learning Community III (1)

Professional Learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in prior coursework. By working in small groups of colleagues and peers, emerging learning will be transparent, targeted, and collaborative.

EDCI 62130 - Educational Computing and Technology (3)

Introductory educational technology course required for all elementary education majors that emphasizes application of contemporary technology in elementary education. Students will learn to use

technology as a tool to improve the teaching and learning processes. The methodologies and materials used in the course are updated each semester according to current trends, practices, and research in the field of educational technology. In addition, technologies used in the course will be same as technologies that are used and available in K-6 classrooms. (F, S, SS)

EDCI 62203 - Pedagogy of Reggio Emilia, Italy (2)

Participation in a study abroad experience to Reggio Emilia, Italy, with early childhood professionals across the United States to learn and understand the constructivist practices of the Reggio Emilia Approach by means of lectures, visits to municipal infant-toddler centers and preschools in Reggio Emilia.

EDCI 62211 - Observation and Activity in the Elementary School (1)

The student assists the elementary or middle school teacher with both non-instructional and limited instructional responsibilities in the student's area of specialization. A portion of the course is devoted to periodic discussion sessions. (F, S)

EDCI 62215 - Designing Integrated Middle School and Secondary Curriculum Part I (1)

This course will offer an introduction to the theories and practices of designing integrated middle school and secondary curricula. Candidates will explore inter- and intra-disciplinary approaches to curriculum integration including sub-disciplines within a single content area. Structures and strategies for integration will be emphasized.

EDCI 62216 - Literature for the Elementary School (3)

Selection and presentation of literature at the various levels of the elementary school. (F, S)

EDCI 62217 - Professional Learning Community in Middle School and Secondary IV (1)

Professional Learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in EDCI 62215 and EDCI 62230 applied to their classroom contexts. By working in small groups of colleagues and peers, emerging learning will be transparent, targeted, and collaborative.

EDCI 62218 - Designing Integrated Middle School and Secondary Curriculum II (1)

This course will build on student learning from Designing Integrated Middle School and Secondary Curriculum Part I. Participants in this course will continue to explore concepts of curriculum integration with emphasis in project-based learning as it applies to instruction in all content areas.

EDCI 62219 - Professional Learning Community for Middle School and Secondary V (1)

Professional Learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in EDCI 62218 and EDCI 62270 applied to their middle school and secondary classroom contexts. By working in small groups of colleagues and peers, emerging learning will be transparent, targeted, and collaborative.

EDCI 62220 - Designing Integrated Curriculum Part I (1)

This course includes introduction to theories and practices of integrated curriculum design. Candidates will explore inter- and intra-disciplinary approaches to curriculum integration including sub-disciplines within a single content area. Structures and strategies for integration will be emphasized. This course requires 1-2 hours of field experience work. Prerequisite: A minimum grade of C in EDCI 62107, EDCI 62113, EDCI 62108, EDCI 62116, EDCI 62109, and EDCI 62119. Corequisites for Elementary and Special Education majors include: EDCI 62221, EDCI 62222, EDCI 62223, and EDCI 62224.

EDCI 62221 - Literacy in the Elementary School (3)

In this course, candidates will learn strategies and skills essential for the instruction of literacy in the elementary school. Candidates will be immersed in concepts of children's literature, language acquisition, language arts, reading, and writing. Emphasis will be given to the integration of literacy with art, music, and physical education. This course requires 3-5 hours of field experience work. Prerequisite: A minimum grade of C in EDCI 62107, EDCI 62113, EDCI 62108, EDCI 62116, EDCI 62109, and EDCI 62119. Corequisites for Elementary and Special Education majors include: EDCI 62220, EDCI 62222, EDCI 62223, and EDCI 62224.

EDCI 62222 - Social Studies in the Elementary School (2)

In this course, candidates will learn strategies and skills necessary for the instruction of Social Studies in the elementary school. Emphasis will be given to the integration of Social Studies with content literacy, art, music, and physical education. This course requires 3-5 hours of field experience work. Prerequisite: A minimum grade of C in EDCI 62107, EDCI 62113, EDCI 62108, EDCI 62116, EDCI 62109, and EDCI 62119. Corequisites for Elementary and Special Education majors include: EDCI 62220, EDCI 62221, EDCI 62223, and EDCI 62224.

EDCI 62223 - Delivering Integrated Curriculum Part I (1)

After developing an integrated unit of study in modules EDCI 62220, EDCI 62221, and EDCI 62222, candidates will first study teacher dispositions essential for implementing integrated units of study and then implement the unit through a 3-5 hour field experience in an elementary school. Prerequisite: A minimum grade of C in EDCI 62107, EDCI 62113, EDCI 62108, EDCI 62116, EDCI 62109, and EDCI 62119. Corequisites for Elementary and Special Education majors include: EDCI 62220, EDCI 62221, EDCI 62222, and EDCI 62224.

EDCI 62224 - Professional Learning Community IV (1)

Professional Learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in EDCI 62220, EDCI 62221, EDCI 62222, and EDCI 62223 applied to their classroom contexts. By working in small groups of colleagues and peers, emerging learning will be transparent, targeted, and collaborative. Successful completion of EDCI 62224 is contingent upon successful completion of EDCI 62220, EDCI 62221, EDCI 62222, and EDCI 62223. Prerequisite: A minimum grade of C in EDCI 62107, EDCI 62113, EDCI 62108, EDCI 62116, EDCI 62109, and EDCI 62119. Corequisites for Elementary and Special Education majors include: EDCI 62220, EDCI 62221, EDCI 62222, and EDCI 62223.

EDCI 62225 - Designing Integrated Curriculum Part II (1)

This course will build upon student learning from Designing Integrated Curriculum Part I. Participants in this course will continue to explore concepts of curriculum integration

with emphasis in project-based learning as it applies to instruction in all content areas. This course requires 1-2 hours of field experience work. Prerequisite: A minimum grade of C in EDCI 62119 or EDUC 61224. Corequisites for Elementary and Special Education majors include: EDCI 62228, EDCI 62229, MATH 17227, and SCED 28226. Corequisite for Middle School and Secondary Education majors include: EDUC 61229.

EDCI 62226 - Early Childhood Literacy (3)

In this course, candidates will learn strategies and skills essential for the instruction of literacy in the early childhood and elementary school settings. Candidates will be immersed in concepts of children's literature, language acquisition, language arts, reading, and writing. Emphasis will be given to early literacy skills, as well as the integration of literacy with art, music, and physical education. This course requires 3-5 hours of field experience work.

EDCI 62228 - Delivering Integrated Curriculum Part II (1)

After developing an integrated unit of study focusing on project-based learning in modules EDCI 62225, SCED 28226, and MATH 17227 and reviewing dispositions essential for teachers to implement project-based learning, candidates will implement the unit of study through a 3-5 hour field experience. Prerequisite: A grade of C or better in EDCI 62107, EDCI 62113, EDCI 62108, EDCI 62116, EDCI 62109, and EDCI 62119. Corequisites for Elementary and Special Education majors include: EDCI 62225, EDCI 62229, MATH 17227, and SCED 28226.

EDCI 62229 - Professional Learning Community V (1)

Professional Learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in EDCI 62225, SCED 28226, MATH 17227, and EDCI 62228 applied to their classroom contexts. By working in small groups of colleagues and peers, emerging learning will be transparent, targeted, and collaborative. Successful completion of EDCI 62229 will be contingent upon successful completion of EDCI 62225, EDCI 62228, MATH 17227, and SCED 28226. Prerequisite: A grade of C or better in EDCI 62107, EDCI 62113, EDCI 62108, EDCI 62116, EDCI 62109, and EDCI 62119. Corequisites for Elementary and Special Education majors include: EDCI 62225, EDCI 62228, MATH 17227, and SCED 28226.

EDCI 62230 - Developmental Foundations of Adolescent Literacy (1)

This course is designed to provide teaching candidates with a foundation of adolescent literacy. Particular attention will be paid to reading and writing in the content areas and instructional strategies to support students' literacy development.

EDCI 62231 - Early Childhood Professional Learning Community IV (1)

In a collaborative context, candidates synthesize information gained through coursework and field experience to build and develop a 'teacher-researcher' stance in working with children. Opportunities to serve as critical colleagues that further each other's reflective thinking skills prepares candidates for professional collaboration in their future careers.

EDCI 62232 - Early Childhood Professional Learning Community V (1)

In a collaborative context, candidates synthesize information gained through coursework and field experience, to build further on the "teacher-researcher" stance introduced in the previous semester, by reflecting on the value of reciprocal teaching. Opportunities to serve as critical colleagues that further each other's reflective thinking skills prepares candidates for professional collaboration in their future careers. Prerequisite: Admittance to Teacher Education.

EDCI 62301 - Reporting Pupil Progress (2)

A study of group measurement, evaluation, interpretation and counseling techniques used with students, parents and other school personnel. (F, S, SS)

EDCI 62302 - Infant and Toddler Early Childhood Curriculum (3)

This course informs candidates of the importance of curriculum for infants and toddlers with a focus on the four developmental domains: physical development, cognitive development, social emotional development, and language development. Candidates learn to plan developmentally appropriate learning experiences based on state standards and goals with a focus on the 'whole child', from birth to age 3. Candidates will be acquainted with the basic elements of infant toddler brain development and developmentally appropriate practice for infants and toddlers. Candidates will develop an understanding and reflect on the 'primary caregiving model'

for infants and toddlers. The course will inform candidates on infant toddler safety, issues and trends in infant toddler care while focusing on the various types of Early Childhood programs. Environmental organization and design, along with teaching methods and interactive strategies that encourage and nurture active exploration and curiosity, are emphasized.

EDCI 62303 - Early Childhood Observation and Assessment (3)

This course is designed to enable candidates to develop a knowledge base to purposefully assess children's developmental characteristics and learning outcomes, implement intervention strategies, assessment tools and methodologies specific to use with children birth through third grade. Developmentally appropriate methods of collecting data for decision-making, interpretation and analysis including the role of family, impact of cultural, economic, linguistic, and meeting state learning standards and national guidelines for appropriate practices.

EDCI 62304 - Infant Toddler Practicum (2)

Candidates in this course will participate in a 7-week practicum experience with 30 hours of contact time with children in which they will collaborate with infant toddler teachers to apply theoretical knowledge of pedagogical principles and developmentally appropriate infant toddler practice in an infant toddler setting. Candidates will engage in an integrated experience supported by curriculum planning and assessment strategies, while strengthening their observation and listening skills and understanding the importance of positive interactions and building relationships.

EDCI 62312 - Developing Foundations of Early Childhood Education (3)

This course is designed to equip the educator with relevant child development knowledge that impacts curricular and behavioral decisions in the classroom, so as to be able to engage in evidence-based practices. Students will outline typical developmental milestones and identify red flags from birth to age 12; explore a variety of contextual and maturational factors that guide, support, and alter the ongoing development of children in the physical, socio-emotional, cognitive and language domains; evaluate the influence of developmental factors on current educational issues; and formulate a child development based philosophical and theoretical framework for their work with

children. Observation and participation with children at the child development center and cooperating schools will be an integral part of the course. (F, S)

EDCI 62320 - Classroom Behavior Management (3)

Preservice teachers will develop the knowledge and strategies necessary for successful classroom management and discipline for students who exhibit a wide range of behavioral needs and characteristics, including learners with special needs. (F, S)

EDCI 62321 - Designing Intervention and Assessment (1)

Candidates in this module will learn evidence-based strategies of intervention to support children in the general education classroom as well as the special education and ELL classrooms. Interventions which assist struggling learners will be explored and analyzed. Candidates will review response to intervention and universal design as theories and strategies of intervention. Candidates will understand the importance of quality assessment design in the implementation of intervention procedures and collaboration around shared data towards the improvement of teaching and learning. This course requires 1-2 hours of field experience. Corequisites for Elementary and Special Education majors include: EDCI 62322, EDCI 62324, EDCI 62325, and MATH 17323.

EDCI 62322 - Literacy Assessment and Intervention: Theory and Techniques (1 to 2)

Candidates in this module will investigate multiple assessment instruments to identify reading and writing challenges and plan effective instruction and intervention. Emphasis is placed upon understanding the major causes of reading challenges and using a variety of assessment strategies to plan and evaluate effective reading and writing instruction. Prerequisite: EDCI 62229 and EDCI 62221 with a C or better and Admittance to Teacher Education for Elementary and Special Education majors OR EDCI 62321 with a C or better for Middle School and Secondary Education programs. Corequisites for Elementary and Special Education majors include: EDCI 62331, EDCI 62324, EDCI 62342, EDCI 62325, and MATH 17323. Corequisite for Middle School and Secondary Education majors include: EDUC 61325.

EDCI 62323 - Theory and Techniques of Literacy Assessment and Intervention Middle/Secondary (1)

Candidates in this course will investigate multiple assessment instruments to identify reading and writing challenges and plan effective instruction and intervention for middle school, secondary, and K-12 students. Emphasis is placed upon understanding the major causes of reading challenges and using a variety of assessment strategies to plan and evaluate effective reading and writing instruction. This course requires 3-5 hours of field experience work.

EDCI 62324 - Implementing/Practicum I (2)

Candidates in this module will participate in a 5-7 week practicum experience in which they will collaborate with an elementary teacher to develop an integrated project-based unit of study based on the learnings from modules in Phase I and II. In a practicum experience, candidates will implement the unit in assigned elementary schools. They will monitor the progress of students in the unit and design intervention strategies for those who may experience difficulty. Both on-site teaching will be conducted as well as in-class instruction on methodologies. Prerequisite: EDCI 62229 with a minimum grade of C and Admittance to Teacher Education. Corequisites for Elementary and Special Education majors include: EDCI 62331, EDCI 62322, EDCI 62342, EDCI 62325, and MATH 17323.

EDCI 62325 - Professional Learning Community VI (1)

Professional learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in EDCI 62331, EDCI 62322, MATH 17323, EDCI 62324, and EDCI 62342 applied to their classroom contexts. By working in small groups of colleagues and peers, learning will be emergent, targeted and collaborative. Successful completion of EDCI 62325 will be contingent upon successful completion of EDCI 62331, EDCI 62322, EDCI 62324, EDCI 62342 and MATH 17323. Prerequisite: A grade of C or better in EDCI 62229 and Admittance to Teacher Education. Corequisites for Elementary and Special Education majors include: EDCI 62331, EDCI 62322, EDCI 62324, EDCI 62342, and MATH 17323.

EDCI 62326 - Early Childhood Professional Learning Community VI (1)

In a collaborative context, candidates synthesize information gained through coursework and field experience, to understand teaching as a process of inquiry and decision making from a teacher-research stance. Candidates engage in critical inquiry of models, approaches, and discipline programs adopted by school districts and examine them in the light of evidence-based knowledge of developmental socio-moral capabilities, Constructivist theory, and the functioning of the brain. Behavior intervention strategies, tiered systems for supporting instruction and behavior and procedural safeguards are explored. Prerequisite: Admittance to Teacher Education.

EDCI 62330 - Health, Nutrition, and Safety of Young Children (2)

Basic principles of health, nutrition, and safety with a focus on examining the age related needs of young children, the interaction between biology and environment as influencing factors of children's health and well-being, and policies/licensing regulations that govern related practices in educational settings. Students are exposed to methods for teaching children about food, health and safety, creating lunch and snack menus, and advocacy efforts related to the wellness and safety of young children. (S, SS)

EDCI 62331 - Designing Intervention and Assessment (1)

Candidates in this course will learn evidence-based strategies of intervention to support children in the general education classroom as well as the special education and ELL classrooms. Interventions which assist struggling learners will be explored and analyzed. Candidates will review Response to Intervention and Universal Design as theories and strategies of intervention. Candidates will understand the importance of quality assessment design in the implementation of intervention procedures and collaboration around shared data towards the improvement of teaching and learning. This course requires 1-2 hours of field experience work. Prerequisite: EDCI 62229 with a minimum grade of C and Admittance to Teacher Education. Corequisites: EDCI 62322, EDCI 62324, EDCI 62325, EDCI 62342, and MATH 17323.

EDCI 62332 - Professional Learning Community VI (1)

Professional Learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills and dispositions gained in EDCI 62331, EDCI 62322, EDCI 62323 and EDCI 62324 applied to their classroom contexts. By working in small groups of colleagues and peers, learning will be emergent, targeted and collaborative. Prerequisites: EDCI 62331, EDCI 62322, EDCI 62323, and EDCI 62324 all with a minimum grade of C.

EDCI 62340 - Principles of Early Childhood Education (2)

This course introduces students to the cyclical relationship between philosophy, theory, and practice in early childhood education. Through an exploration of the various roles that an early childhood educator plays and the analysis of varied early childhood settings, this course serves as a foundational course in Early Childhood practitioner preparation. Prerequisite: EDCI 62312. (F, S)

EDCI 62342 - Implementing/Practicum II (2)

Candidates in this module will participate in a 5-7 week practicum experience in which they will collaborate with an elementary teacher to develop and implement literacy strategies based on the learnings from courses in Phase I and II. In a practicum experience, candidates will implement the strategies in assigned elementary schools. They will monitor the progress of students in the unit and design intervention strategies for those who may experience difficulty. Both on-site teaching will be conducted as well as in-class instruction on methodologies. Prerequisite: EDCI 62229 with a grade of C or higher and Admittance to Teacher Education. Corequisites for Elementary and Special Education majors: EDCI 62331, EDCI 62322, EDCI 62324, EDCI 62325, and MATH 17323.

EDCI 62353 - Teaching Reading in Content Areas (2)

Topics will focus on basic reading skills as relevant to all academic areas in the junior and senior high schools, with additional attention to specialized skills of reading as related to particular content materials. (F, S)

EDCI 62356 - Teaching Reading/Language Arts in the Elementary School (4)

This course has been designed to provide methods of instruction for an integrated elementary/middle school reading and language arts program. Emphasis will be placed on methods, materials and teaching approaches which will assist children in developing the lifelong communication skills of listening, speaking, reading and writing. (F, S, SS)

EDCI 62371 - Introduction to Special Education (3)

Provides participants with knowledge and understanding about the identification of exceptional children, methods of working with exceptional children and sources of referral available to parents and teachers. (F, SS)

EDCI 62372 - Systems for Supporting Instruction and Behavior for Students with Disabilities (2)

This course is designed to introduce candidates to the issues, characteristics, legal aspects, professional, and ethical considerations of teaching students with mild/moderate disabilities from a cross categorical perspective. This course will provide candidates with the understanding of how disabilities may interact with development and learning and use this knowledge to provide differentiated, meaningful, and challenging learning experiences and curricula for individuals with disabilities. Prerequisite: EDCI 62117 and EDCI 62119.

EDCI 62380 - Diagnostic and Corrective Reading (2)

Diagnostic techniques and procedures for the correction of learning problems in reading. Prerequisites: EDCI 62301 and EDCI 62356, and Admittance to Teacher Education. (F, S, SS)

EDCI 62382 - Introduction to Cross Categorical Special Education (3)

Designed to develop knowledge of the issues and characteristics of individuals with mild/moderate disabilities (e.g., emotional and intellectual disabilities, learning disabilities, behavior disorders and/or physical and other health impaired, including ADHD) and to provide information and organizational techniques to meet their educational needs in a cross categorical setting. Students will develop the conceptual frameworks needed to identify and interpret a broad range of student behavior and

deficits from a cross-categorical perspective.
Prerequisite: EDCI 62371. (F, S)

EDCI 62384 - Teaching Students in Cross Categorical Special Education:

Academic/Behavioral (3)

Designed to equip teachers-in-training with the knowledge and skills to effectively teach students with mild/moderate academic and/or behavioral disabilities. This is one of two methods courses (with no required sequence) required for the major in Special Education: Cross Categorical. Prerequisites: EDCI 62371 and EDCI 62382, and Admittance to Teacher Education. (F)

EDCI 62385 - Teaching Cross Categorical Special Education: Academic/Behavioral, Secondary (3)

Designed to equip teachers-in-training with the knowledge and skills to effectively teach adolescents and young adults with mild/moderate academic and/or behavioral disabilities. This is one of two methods courses (with no required sequence) required for the major in Special Education: Cross Categorical. Permission of advisor/instructor needed to enroll. Prerequisites: EDCI 62371 and EDCI 62382, and Admittance to Teacher Education. (F)

EDCI 62386 - Teaching Students in Cross Categorical Special Education:

Functional/Physical (3)

Designed to equip teachers-in-training with the knowledge and skills to effectively teach students with mild/moderate functional and/or physical and other health impairments. This is one of two methods courses (with no required sequence) required for the major in Special Education: Cross Categorical. Prerequisites: EDCI 62371 and EDCI 62382, and Admittance to Teacher Education. (S)

EDCI 62387 - Teaching Students in Cross Categorical Special Education:

Functional/Physical, Secondary (3)

Designed to equip teachers-in-training with the knowledge and skills to effectively teach adolescents and young adults with mild/moderate functional and/or physical and other health impairments. This is one of two methods courses (with no required sequence) required for the major in Special Education: Cross Categorical. Permission of instructor needed to enroll. Prerequisites: EDCI 62371 and EDCI 62382, and Admittance to Teacher Education. (S)

EDCI 62394 - Special Education: Theory and Techniques of Evaluation, Instruction, and Behavior (4)

This course will provide candidates with knowledge and understanding of assessment, evaluation, curriculum, and instruction for students with mild/moderate disabilities including academic, behavioral, functional, and physical performance. Candidates will be introduced to individual, family, school, and community factors to consider when collaborating to develop culturally responsive learning environments, assessments, curricula, instructional, and behavioral strategies from a cross-categorical perspective. Prerequisite: EDCI 62372.

EDCI 62396 - Special Education: Implementing Techniques and Strategies of Evaluation, Instruction, and Behavior (4)

This course will provide candidates with development and implementation of assessment, evaluation, curriculum, and instruction for students with mild/moderate disabilities including academic, behavioral, functional, and physical performance. Candidates will collaborate to plan, develop, implement, and analyze culturally responsive learning environments, assessments, curricula, instructional, and behavioral strategies from a cross-categorical perspective. Prerequisite: EDCI 62394 with a grade of C or better and admittance to Teacher Education.

EDCI 62404 - Practicum in Preschool (2)

Supervised practice in culturally responsive teaching with preschool children in group settings. Prerequisite: Admittance to Teacher Education.

EDCI 62405 - Practicum in Kindergarten (2)

Supervised practice in culturally responsive teaching with Kindergarten children in group settings. Prerequisite: Admittance to Teacher Education.

EDCI 62407 - Elementary School Language Arts Practicum (1)

Supervised practice in teaching language arts. Prerequisite: EDCI 62356 and Admittance to Teacher Education. (F, S, SS)

EDCI 62408 - Transition and Career Readiness, Families, and Partnerships: Theory and Techniques (2)

This course will provide candidates an opportunity to experience the transition

process through the development of a coordinated set of activities designed for students with disabilities through an outcome-oriented process, involving collaboration and family partnerships that promotes movement from school to post-school activities. Candidates will become familiar with the principles, methods, and procedures of career readiness, career education, and transition for students with disabilities. Prerequisite: EDCI 62396 with a grade of C or better and admittance to Teacher Education.

EDCI 62410 - Elementary School Social Studies (3)

An examination of the content, teaching techniques, instructional materials and role of social studies in today's elementary school. Course includes both classroom and practicum experiences. Prerequisite: Admittance to Teacher Education. (F, S, SS)

EDCI 62420 - Content Teaching in Elementary Schools (3)

Preservice teachers will develop knowledge in the content areas and teach content area subjects (math, science and social studies) under the guidance and supervision of a faculty member and a cooperating teacher in a classroom setting. Prerequisites: EDCI 62320, EDCI 62410, SCED 28380 and MATH 17471, and Admittance to Teacher Education. (F, S, SS)

EDCI 62421 - Early Childhood Curricular Approaches & Practices (3)

This course will emphasize and inform candidates of the importance of play-based and process-oriented learning approaches, and developmentally appropriate practice in Early Childhood settings. Candidates will explore the Constructivist philosophy - pedagogy and conceptual framework, including underlying theories and contemporary influences in early childhood education. The course will focus on key elements of Constructivism - collaboration, learner autonomy, critical thinking and problem solving, and active engagement will be addressed. Candidates will examine notable Constructivist theorists, trends, theories influencing child development, and curriculum models (Waldorf, Montessori, Reggio Emilia, Bank Street, High Scope, Creative Curriculum, and Project Construct) that shape current evidence-based early childhood education programs. Candidates will learn to plan developmentally appropriate, meaningful learning

experiences based on state standards and early learning goals with an understanding of how content areas are integrated to support the whole child. Candidates will engage in environmental organization and design that encourage and nurture active exploration and curiosity in an early childhood setting. Prerequisite: Admittance to Teacher Education.

EDCI 62426 - Early Childhood Assessment and Special Education (3)

Candidates will develop a knowledge of principles appropriate and meaningful to assess student learning and mastery of concepts, personalize learning, and monitor student progress. Students will design, analyze, and interpret data to make informed decisions about student learning and assessment. Candidates will identify handicapping conditions exhibited by young children with diverse abilities and effectively communicate with and involve families in the educational process. Candidates will engage in intentional practices that value diversity and demonstrate understanding of bias and discrimination. Prerequisite: Admittance to Teacher Education.

EDCI 62430 - Teaching Writing in Middle School (2)

A study of the methods and materials for teaching the process of writing to middle school students. Content includes: developmental stages of writing, the writing process, writing evaluation, writing across the curriculum, creating a stimulating writing environment and the use of technology in writing. Prerequisite: Admittance to Teacher Education. (F)

EDCI 62431 - Residency Practicum (1 to 8)

Candidates in this course will synthesize the information learned throughout Phase I, II, and III of the professional education program as well as the information learned in general studies. Candidates will spend the entire semester in a school building, implementing all aspects of curriculum, instruction, assessment, classroom management, and differentiating for special needs populations. Both on-site teaching will be conducted as well as in-class instruction on methodologies. Prerequisite: EDCI 62325 with a minimum grade of C.

EDCI 62432 - Professional Capstone (3)

Taken concurrently with EDCI 62431 Student Teaching I, the professional capstone will allow candidates to reflect on their

practicum experiences through the lens of implementation of curriculum, instruction, assessment, classroom management, and differentiating for special needs populations. Candidates will meet in cohorts to learn from school personnel concerning their interpretation of effective schools and teachers, multicultural needs, career opportunities, and organizational patterns. Prerequisite: EDCI 62325. Corequisites for Elementary and Special Education majors include: EDCI 62431 and EDCI 62433.

EDCI 62433 - Professional Learning Community VII (1)

Professional learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in EDCI 62431 and EDCI 62432 applied to their classroom contexts. By working in small groups of colleagues and peers, learning will be emergent, targeted, and collaborative. Successful completion of EDCI 62433 will be contingent upon successful completion of EDCI 62431 and EDCI 62432. Prerequisite: EDCI 62325. Corequisites for Elementary and Special Education majors include: EDCI 62431 and EDCI 62432.

EDCI 62434 - Professional Learning Community VIII (1)

Professional learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in EDUC 61471 applied to their classroom contexts. By working in small groups of colleagues and peers, emergent learning will be transparent, targeted, and collaborative. Successful completion of EDCI 62434 will be contingent upon successful completion of EDUC 61471. Prerequisite: EDCI 62433. Corequisite course for Elementary and Special Education majors includes: EDUC 61471.

EDCI 62435 - Practicum in the Primary Grades (2)

Candidates will participate in a 5-7 week experience in which they will collaborate with early childhood/elementary educators to develop and implement responsive teaching practices in grades 1-3 utilizing large group and small group settings. Candidates will implement learning units/lessons and monitor student progress. Prerequisite: Admittance to Teacher Education.

EDCI 62441 - Early Childhood Leadership and Program Management (3)

This course examines aspects of program administration and management in early childhood care and education programs. Topics include but are not limited to: supervision; health, safety, nutrition; state, local, and federal standards and regulations; professional decision making; and fiscal management. In addition, this course includes the examination of leadership, advocacy, and contemporary issues in the field. As part of this course, students will have the opportunity to manage a local program serving children and families offering application aspects of leadership and management through direct field experience. Prerequisite: Admittance to Teacher Education.

EDCI 62442 - Early Childhood Professional Capstone (3)

Through this culminating course candidates re-visit content in special education, classroom and behavior management, school law, and profession related topics in preparation for student teaching. Through a synthesis of previous coursework, opportunity to learn from school personnel and administrators, and a capstone practicum experience in a diverse setting, this course is designed to develop competency in functioning as an efficient and knowledgeable member in the field of education. Prerequisite: Admittance to Teacher Education.

EDCI 62443 - Early Childhood Professional Learning Community VII (1)

Professional learning communities will bring together candidates to share and reflect upon the knowledge, skills and dispositions gained in EDCI 62442; EDCI 62441; EDCI 62472 or EDUC 61480 applied to their classroom contexts. By working in small groups of colleagues and peers, learning will be emergent, targeted, and collaborative. Prerequisite: Admittance to Teacher Education.

EDCI 62444 - Practicum in Special Education: Cross Categorical (3)

Supervised clinical experience that includes interpretation of intelligence tests, formal and informal diagnostic procedures, instruction and practical application of teaching strategies and behavior management techniques. Prerequisites: EDCI 62384 or EDCI 62385, EDCI 62386 or EDCI 62387, EDCI 62470 and EDCI 62471, or permission of instructor. (F, S)

EDCI 62445 - Early Childhood Professional Learning Community VIII (1)

Professional learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills and dispositions gained in EDUC 61473 applied to their classroom contexts. By working in small groups of colleagues and peers, learning will be emergent, targeted and collaborative. Corequisite: EDUC 61473. Prerequisite: Admittance to Teacher Education.

EDCI 62454 - Special Education: Residency Practicum (3)

This course will provide candidates an opportunity to experience many of the various professional responsibilities of a teacher in special education. The course provides a supervised clinical field experience designed to bridge the gap between theory and practice. It is a problem-solving process; a time for trying one's self in the role of a teacher while gaining self-knowledge and technical skills that includes interpretation of intelligence tests, formal and informal evaluation/assessment procedures, evidence-based instruction, and practical application of teaching strategies and behavior management techniques. Prerequisite: EDCI 62408 with minimum grade of C.

EDCI 62455 - Family and Community Resources in Early Childhood (2)

This course is a study of family and community resources used in working with children birth through grade 3 and their families with an aim to empower parents as first educators of children. Candidates are introduced to family systems theories, family involvement research, and family development dynamics within pluralistic cultures to help them engage in relationship-based practice as teachers of young children.

EDCI 62456 - Practicum and Seminar in Elementary School Reading (3)

Supervised practice in teaching reading with weekly reflections regarding methods and strategies of teaching reading.

EDCI 62470 - Assessment in Special Education (3)

Instruction in administration and interpretation of formal and informal assessment instruments, interpretation of individualized intelligence tests and

instruction in authentic assessment measures in order to design appropriate intervention programs for students with special instructional needs. Must be enrolled concurrently in EDCI 62471. Prerequisites: EDCI 62301 and EDCI 62371, and Admittance to Teacher Education. (F, S)

EDCI 62471 - Assessment in Special Education Lab (1)

Students will have the opportunity to administer assessments and develop evaluation plans, IEPs and other documents within the special education process. In addition, diagnosing student needs and prescribing appropriate educational interventions will be emphasized. Must be enrolled concurrently in EDCI 62470. Prerequisite: Admittance to Teacher Education. (F, S)

EDCI 62472 - Capstone Practicum Experience (2)

Supervised pre-student teaching experience with an age group/grade level of the candidate's choice. Placements for this experience will be determined on the basis of the candidate's prior experience, with an aim to offer an opportunity for practice in a different setting. Prerequisite: Admittance to Teacher Education.

EDCI 62503 - Special Topics in Education (1 to 4)

This course will provide opportunities for students to study a selected topic or emerging issue in education. The course is repeatable with topic change for a total of four hours. (F, S, SS)

EDCI 62504 - Creating Inclusive Classrooms (3)

Designed to provide a framework for creating learning environments that support the learning and socialization of students who bring unique characteristics to the classroom. Teachers will develop effective techniques and methods for all students including: those who are at risk for success or who have disabilities; the gifted and talented; those whose diversity lies in their culture, language, race, gender, sexual orientation or family structure. Undergraduate prerequisites: admitted to Teacher Education and at least one special education methods course (EDCI 62384 or EDCI 62386); graduate prerequisite: Degree Audit Form on file or permission of instructor. (S)

EDCI 62508 - Transition/Career Education for Students with Disabilities (2)

Acquaints the student with an understanding of principles, methods, and procedures of career development and transition for students with disabilities. Undergraduate prerequisite: admitted to Teacher Education and at least one special education methods course (EDCI 62384 or EDCI 62386); graduate prerequisite: EDCI 62642 or permission of instructor. (S, SS)

EDCI 62511 - Middle School Curriculum, Methods and Practicum (3)

Methods and techniques of teaching, practicum experience, and curriculum construction for the middle school, with attention given to early adolescent development. (F, SS even years)

EDCI 62519 - Problems in Elementary Education (1 to 4)

A course designed to meet the individual student's educational needs. The studies may be either of a subjective or objective research nature. (F, S, SS)

EDCI 62520 - Introduction to Teaching Students with Autism Spectrum Disorders (3)

This course is intended to develop effective teachers of students with autism spectrum disorders. This course will cover a wide variety of topics regarding students with autism spectrum disorders: from characteristics, basic knowledge of assessment, to effective practices used to address their unique needs in school, family, and community. This course will provide an introduction and overview of issues surrounding the education of students with autism spectrum disorders. (F)

EDCI 62521 - Teaching Students with Autism Spectrum Disorders (3)

This course is intended to develop effective teachers of students with autism spectrum disorders (ASD). This course is a follow-up to the prerequisite Introduction to Teaching Students with Autism Spectrum Disorders and will go into more depth with methods and evidence-based practices used with students with ASD. Students will gain more specific knowledge of strategies and evidence-based practices as well as develop some supports to be used with students in special education or inclusion settings. Prerequisite: EDCI 62520.

EDCI 62522 - Technology for Teaching and Learning (3)

Students will learn about various technologies, applications, procedures and assessments to facilitate student learning. Using technology to meet the diverse needs of students including those with disabilities will be explored. Topics include assessment, levels of assistive technology devices and services, use of word processing, spreadsheet, and database software in the instructional process, student and teacher productivity applications, ethical and legal issues regarding technology in the classroom, and instructional software. Prerequisite for undergraduate students: Admittance to Teacher Education and at least one methods course or permission of instructor. (F)

EDCI 62531 - Curriculum and Methods in Early Childhood (3)

A gradual induction into planning, creating and integrating developmentally appropriate curriculum and materials for working with children birth through kindergarten. Prerequisite: EDCI 62340 and Admittance to Teacher Education. (F, S)

EDCI 62540 - Behavior Management Techniques (3)

This course is designed to provide teachers with both technical and functional understanding of applied behavior analysis, as well as strategies for the everyday applications of behavior management in classrooms and other educational settings. Undergraduate prerequisites: Admittance to Teacher Education and at least one special education methods course (EDCI 62384 or EDCI 62386); graduate prerequisite: Degree Audit form on file or permission of instructor. (F, SS)

EDCI 62541 - Assessment and Early Intervention in Early Childhood (3)

This course is designed to enable pre-service teachers or graduate students to develop a knowledge base of assessment principles so they are able to appropriately assess children's developmental characteristics and implement intervention strategies to maximize development in young children. Prerequisite: EDCI 62340 and EDCI 62531, and Admittance to Teacher Education, or permission of instructor. (F, SS)

EDCI 62542 - Curriculum and Methods in Early Childhood Special Education (3)

This course is designed to develop skills to enable the prospective teacher of the young child with special needs (birth to age five years) to: (1) plan and organize appropriate curriculum content and learning sequences; (2) identify and implement appropriate instructional strategies, techniques, and environments; (3) work effectively with parents and families, as well as other professionals and caregivers, and (4) become knowledgeable about the elements of Individualized Educational Plans (IEPs) and processes including the legal and ethical aspects. Prerequisites: EDCI 62426 and Admittance to Teacher Education.

EDCI 62553 - The Reading Program in the Secondary School (3)

A course for specialized personnel in reading at the secondary level. Topics will focus on means for identifying students' basic and developmental skill needs, as well as materials and techniques for instruction. (S, SS)

EDCI 62554 - Trauma Informed Practices and Responsive Pedagogy (3)

This course is designed to emphasize and inform candidates on the importance of understanding trauma and the prevalence of trauma in the school system. Candidates will gain knowledge of adverse childhood experiences and understand the negative impact of trauma on development and behavior; specifically brain development. Candidates will gain an understanding of secondary trauma exposure while increasing their awareness of the importance of resiliency, emotional intelligence, and growth mindset. The course will inform candidates on key features of culturally responsive pedagogy and trauma informed care while gaining teaching strategies and resources for classroom implementation. Prerequisite: Admittance to Teacher Education.

EDCI 62555 - Trends in Reading (1 to 3)

This course is designed to update teachers in methods, techniques and innovations in teaching reading. Repeatable with change in topic. (F, S, SS)

EDCI 62563 - Trends in Special Education (1 to 3)

This course is designed to update teachers in methods, techniques and innovations in special education. Repeatable with a change in topic. (F, S, SS)

EDCI 62574 - Teaching Math to Students with Disabilities (2)

Methods and materials used in teaching remedial math to the exceptional learner. Prerequisite: Admittance to Teacher Education. (F)

EDCI 62580 - Methods and Techniques for Teaching English Language Learners (ELL/ESOL) (3)

Designed to introduce the student to the current methods and techniques used to instruct limited English proficient students regardless of their age group or goal. Special attention is given to application of the Missouri WIDA and TESOL Standards to the development of curriculum of the content of ELL class. Explores how current trends in developing second language competence is used to teach language in ESL and mainstream classrooms through a content-based approach. Required for an ESL endorsement. (F)

EDCI 62582 - Linguistics for Teaching English Language Learners (ELL/ESOL) (3)

Examines the nature of language through a study of pragmatics, semantics, syntax, morphology and phonology. Explores language variation as it is shaped by society and culture. The concepts of first and second language acquisition, the neurological foundations of language, and the evolution of writing systems are introduced. (S)

EDCI 62591 - Seminar in Education (1)

Current Trends and Issues Seminar is a required component of the Professional Semester experience and is taken in conjunction with the student teaching experience. It is designed to help students become reflective teachers by providing an opportunity to synthesize the student teaching experience and by providing a forum for collaborative, critical inquiry. This seminar is taken concurrently with the Directed Teaching courses (EDUC 61471, EDUC 61473 and/or EDUC 61472, EDUC 61474). (F, S)

EDM - Emergency and Disaster Management

EDM 36305 - Disaster Response and Recovery (3)

This course provides a broad introduction to the field of emergency management. It focuses on the different types of hazards, the individuals and agencies involved in

response and recovery operations, human behaviors in disaster situations, hazard detection, warning, evacuation and sheltering, care for the injured, dead, and distressed, management of media relations, donations and volunteers, methods for facilitating recovery and mitigation, and the role of technology. (S)

EDM 36306 - Principles of Humanitarian Relief (3)

An examination of the principles, practitioners, and practices of humanitarianism since 1863 with special emphasis on the United States. This course provides students with historical, theoretical, and practical understanding of humanitarianism in the modern world. (S, odd years)

EDM 36307 - Business Continuity (3)

This course is designed to familiarize students to the way businesses prepare for and respond to hazard events. As the number of disasters increase worldwide, businesses must mitigate against losses and ensure continuity of operations. The course will discuss hazard analysis, risk management, continuity of operations planning, crisis communications and leadership, and other strategies to minimize impacts of a harmful event. (S, alt. years)

EDM 36308 - Emergency Management Planning (3)

This course provides an understanding of the emergency management planning process within government organizations, businesses, and non-profits. This course will take students through the steps required and address the best practices currently being utilized in the field. (S, even years)

EDM 36309 - Vulnerability and Mitigation (3)

This course studies how society is vulnerable to various hazard events at the individual, community, and societal level. Focus will be given to vulnerability theory, and current approaches to mitigate the impacts of hazard events. (F, odd years)

EDM 36310 - Nonprofit Organizations (3)

This course is designed to provide students with an awareness of basic nonprofit operations. Topics covered include but are not limited to history of the nonprofit sector, project management, volunteer management, organizational leadership,

grant writing, and event management. (S, odd years)

EDM 36311 - Fire Academy I (3)

This course meets state requirements for Firefighter I and II, First Responder, and Hazardous Material as recognized by the Missouri Division of Fire Safety. This course is organized to provide the student with knowledge and basic skills in firefighting, to respond first at the scene of accident or disaster, and the procedures to follow to provide safety for themselves and the public when confronted with a hazardous situation. This is part one of a two-semester academy that prepares students for work as firefighters. (F)

EDM 36312 - Fire Academy II (3 to 6)

The Fire Science program meets state requirements for Firefighter I and II, First Responder, and Hazardous Material as recognized by the Missouri Division of Fire Safety. This is the second part of a two-semester academy, designed to prepare students to operate safely on the fireground. Prerequisite: EDM 36311 or permission of the instructor. (S)

EDM 36314 - Wilderness First Aid (1 to 6)

This course focuses on the medical assistance needed for individuals in an austere environment where traditional emergency medical services may not be available. Students will learn about patient assessment, symptoms, treatment, movement, and other strategies that can be utilized with minimal tools and technology. (SS)

EDM 36401 - Professional Development in Emergency and Disaster Management (1)

This course is designed to meet the needs of students preparing to graduate and start their search for full-time employment. This course will walk through the process from searching for employment, to portfolio development, to application procedures, to the interview and beyond. Prerequisites: EDM 36305 and EDM 36309. (F)

EDM 36402 - Exercise and Simulation Design (1 to 3)

This course discusses the effective planning, construction, and implementation of emergency management exercises and simulations. Focus will be given to the range of techniques used by relevant organizations, as well as what techniques are most effective according to current

research. Prerequisite: EDM 36305 and EDM 36309. Co-requisite: EDM 36403. (S, even years)

EDM 36403 - Operational Leadership in EDM (1 to 3)

This focuses on the theory and practice necessary for effective leadership in emergency and disaster management. The course will provide a background on common theories of leadership, as well as learning in the field through exercises and simulations. Prerequisites: EDM 36305 and EDM 36309. Corequisite: EDM 36402. (S, even years)

EDM 36450 - Homeland Security and Defense (3)

This is a core course in the interdisciplinary major and minor in Emergency and Disaster Management. America has been practicing various types of homeland security since the establishment of the country. However, the current concept of homeland security and the establishment of a formal Department of Homeland Security are direct results of the terrorist attacks of September 11, 2001. This course examines homeland security (and to a lesser extent homeland defense) from both a technical view and through a critical lens. The foundation of the course is the application of higher order and critical thinking skills. (F)

EDM 36490 - Internship in Emergency and Disaster Management (1 to 6)

A supervised internship in an approved experience in crisis response management including preparation of a formal written report. Credit will vary according to the time spent and type of activity. Instructor's permission and prearrangement are required. Repeatable for new experiences up to 12 credit hours.

EDM 36491 - Field Experience in Emergency and Disaster Management (1 to 6)

A supervised field experience in an approved exercise in crisis response management including preparation of a formal written report. Credit will vary according to the time spent and type of activity. Instructor's permission and prearrangement are required. Repeatable for new experiences up to 6 credit hours.

EDM 36493 - Special Topics in Emergency and Disaster Management (1 to 3)

Courses which are offered on only one occasion or variable issue-oriented course which have the content described in the title. Credit and prerequisites as announced. Repeatable up to 6 credit hours for new topics.

EDM 36494 - Field Experience in Emergency Services (1 to 6)

A supervised field experience in an approved exercise in the field of emergency services including preparation of a formal written report. Credit will vary according to the time spent and type of activity. Instructor's permission and prearrangement are required. Repeatable for new experiences.

EDM 36499 - Independent Study in Emergency and Disaster Management (1 to 6)

A supervised independent study in an approved research project or exercise in emergency and disaster management including preparation of a formal written report. Credit will vary according to the time spent and type of activity. Instructor's permission and prearrangement are required. Repeatable for new topic areas up to 6 credit hours.

EDUC - Education: General Leadership

EDUC 61145 - Information and Educational Technology (3)

This educational information and technology course will provide instruction in technology language and technology use for the educator. This course is intended to serve students majoring in education to prepare them to plan, instruct, communicate and manage record keeping in addition to modeling technology use for their students.

EDUC 61210 - Field Experience in Diversity (1)

The purpose of this course is to gain an understanding of people in a different culture and to become sensitive to their uniqueness. The course is a vehicle by which undergraduates in the teacher education program can experience diversity in a real-world setting, thus meeting the program's diversity requirement. (SS)

EDUC 61224 - Professional Learning Community IV (1)

Professional Learning Communities will bring together teacher candidates to share and

reflect upon the knowledge, skills, and dispositions gained in EDCI 62220 and EDCI 62230 applied to their classroom contexts. By working in small groups of colleagues and peers, emerging learning will be transparent, targeted, and collaborative. Successful completion of EDUC 61224 is contingent upon successful completion of EDCI 62220 and EDCI 62230. Prerequisite: EDCI 62119. Corequisites: EDCI 62220 and EDCI 62230.

EDUC 61229 - Professional Learning Community V (1)

Professional Learning Communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in EDCI 62225 and EDUC 61270 applied to their classroom contexts. By working in small groups of colleagues and peers, emerging learning will be transparent, targeted, and collaborative. Successful completion of EDUC 61229 is contingent upon successful completion of EDCI 62225 and EDUC 61270. Prerequisite: EDUC 61224. Corequisites: EDCI 62225 and EDUC 61270.

EDUC 61252 - Pluralism in a Multicultural Society (3)

This course is designed to impart a knowledge of and sensitivity to issues which foster potential prejudices and discrimination. These issues include race, national origin, sexism, religion, handicaps (physical and mental), economic position and others. Methodology in humanizing the curriculum, sensitivity issues, historical perspectives, and means by which dehumanizing biases may be recognized in instructional materials also shall be included in the content of this course. (F, S, SS)

EDUC 61260 - Secondary Teaching Practicum I (1)

Observation and participation in the secondary or junior high school with both non-instructional and limited instructional responsibilities. A portion of this course is devoted to periodic discussion sessions. May not be taken during the same semester as EDUC 61360. (F, S, SS)

EDUC 61262 - Middle School Teaching Practicum I (1)

Observation and participation in the middle school (grades 5-9) with both non-instructional and limited instructional responsibilities. A portion of this course is devoted to periodic discussion sessions. (F, S, SS)

EDUC 61270 - Classroom and Behavior Management Strategies (1)

This course is designed to provide teacher candidates with classroom and behavior management strategies which will assist them in structuring classrooms for success, managing materials and resources, and assessing and managing student and group behavior.

EDUC 61301 - Developmental Foundations of Adolescent and Content Literacy (2)

This course is designed to provide teaching candidates with a foundation of adolescent literacy. Particular attention will be paid to reading and writing in the content areas and instructional strategies to support students' literacy development. Candidates will explore inter- and intra-disciplinary approaches to curriculum integration including content literacy and sub-disciplines within a single content area. Structures and strategies for integration will be emphasized.

EDUC 61302 - Professional Learning Community Middle and Secondary IV (1)

Professional Learning Communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in EDUC 61301 applied to their classroom contexts. By working in small groups of colleagues and peers, emerging learning will be transparent, targeted, and collaborative.

EDUC 61310 - Classroom and Behavior Management Strategies (1)

This course is designed to provide teacher candidates with classroom and behavior management strategies which will assist them in structuring classrooms for success, managing materials and resources, and assessing and managing student and group behavior.

EDUC 61311 - Designing Integrated Middle School and Secondary Curriculum (1)

Participants in this course will explore concepts of curriculum integration with emphasis in project-based learning as it applies to instruction in all content areas.

EDUC 61312 - Professional Learning Community for Middle School and Secondary V (1)

Professional Learning communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in EDUC 61312 and EDUC

61310 applied to their middle school and secondary classroom contexts. By working in small groups of colleagues and peers, emerging learning will be transparent, targeted, and collaborative.

EDUC 61324 - Intervention and Assessment: Literacy, Special Populations, and English Language (2)

Candidates in this course will investigate multiple assessment instruments to identify reading and writing challenges and plan effective instruction and intervention for middle school, secondary, and K-12 students. Emphasis is placed upon understanding the major causes of reading, writing, and processing challenges and using a variety of assessment strategies to plan instruction with interventions. Candidates in this course will learn evidence-based strategies of intervention to support children in the general education classroom as well as the special education and ELL classrooms.

EDUC 61325 - Professional Learning Community VI (1)

Professional Learning Communities will bring together teacher candidates to share and reflect upon the knowledge, skills, and dispositions gained in EDCI 62321 and EDCI 62322 applied to their classroom contexts. By working in small groups of colleagues and peers, learning will be emergent, targeted, and collaborative.

EDUC 61360 - Secondary Teaching Practicum II (1)

Emphasizes practical teaching skills to include observation and practice in a supervised classroom situation including off-campus weeklong teaching placement. Prerequisite: EDUC 61260 or equivalent, and Admittance to Teacher Education. May not be taken during the same semester as EDUC 61260. Must be taken concurrently with EDUC 61461, EDUC 61520 and Content Methods. (F, S)

EDUC 61362 - Middle School Teaching Practicum II (1)

Continues the observation and teacher-aide activities of Middle School Teaching Practicum I and gives the prospective middle school teacher additional background in practical teaching skills to observe and to practice in a supervised classroom situation. Emphasis is given to using practical approaches to everyday classroom instruction and activities. Prerequisite: EDUC 61262 or equivalent. (F, S, SS)

EDUC 61412 - Audio-Visual Aids (2)

An introductory course designed to familiarize teachers with the general types of audio-visual aids. (F)

EDUC 61430 - Middle School Practicum (1)

This course is a synthesis of methods, strategies, and techniques in prior modules. Candidates will participate in a middle school practicum experience in which they implement an integrated unit, administer assessments, collect data, and differentiate instruction based on assessment results. Prerequisite: Admittance to Teacher Education.

EDUC 61431 - Secondary School Practicum (1)

This course is a synthesis of methods, strategies, and techniques in prior modules. Candidates will participate in a secondary school practicum experience in which they implement an integrated unit, administer assessments, collect data, and differentiate instruction based on assessment results. Prerequisite: Admittance to Teacher Education.

EDUC 61432 - Professional Education Capstone (2)

Taken concurrently with EDUC 61470 Directed Teaching in the Elementary and Secondary School, EDUC 61472 Directed Teaching in the Secondary School, or EDUC 61474 Directed Teaching in the Middle School, the Professional Education Capstone will allow candidates to reflect on their student teaching experiences through the lens of implementation of curriculum, instruction, assessment, classroom management, and differentiating for special needs populations. Candidates will meet in cohorts to learn from school personnel concerning their interpretation of effective schools and teachers, multicultural needs, career opportunities, and organizational patterns. Admission to Teacher Education.

EDUC 61461 - School and Society (2 to 3)

A survey of the sociological, multicultural, and literacy needs in schools in our society today. Because one of the most significant issues facing our schools and our society today is the inability of students to meet proficiency levels in literacy, an emphasis of this course will be instructional interventions for students with reading deficits. Secondary students must be enrolled concurrently with EDUC 61630, EDUC 61520 and Content Methods the semester prior to student

teaching. Prerequisite: Admittance to Teacher Education.

EDUC 61462 - School and Society Seminar (1)

Course is to be taken during the student teaching semester and is a continuation of EDUC 61461 with many of those topics re-addressed as students are actively engaged in student teaching experiences. The preparatory work done in the 2-hour credit course will serve as a foundation for discussion, for application, for reflection, and for alteration. Prerequisite: Admittance to Teacher Education. (F, S)

EDUC 61463 - Secondary Methods and Techniques (3)

Provides a sequence of laboratory experiences in a variety of basic teaching methods and skills such as questioning techniques, reinforcement, stimulus variation, use of illustrations and examples, demonstrations and disciplinary procedures. Also included are an introduction to innovative instructional methods, a unit on use of instructional technology and a unit on evaluative procedures. Prerequisite: Admittance to Teacher Education. (F, S)

EDUC 61470 - Directed Teaching in Elementary and Secondary School (1 to 10)

This course is offered only for those seeking K-12 certification in art, music, modern languages, or physical education. Prerequisite: Admittance to Teacher Education. (F, S)

EDUC 61471 - Directed Teaching in the Elementary School (1 to 12)

A gradual induction into teaching in the elementary school is provided through a progression which includes observation of the children and the work of the cooperating teacher, gradual participation, and finally directed teaching under the supervision of the cooperating teacher and the college coordinator. The candidate must have adequately fulfilled the requirements as set by the School of Education. Prerequisite: Permission of director of educational field experiences, Admittance to Teacher Education, EDCI 62431, EDCI 62432, and EDCI 62433. Corequisite: for Elementary and Special Education majors includes: EDCI 62434. (F, S)

EDUC 61472 - Directed Teaching in the Secondary School (1 to 10)

A gradual induction into teaching in the secondary school is provided through a progression which includes observation of the students and the work of the cooperating teacher, gradual participation, and finally, directed teaching under the supervision of the cooperating teacher and the college coordinator. Prerequisite: Permission of director of educational field experiences and Admittance to Teacher Education. (F, S)

EDUC 61473 - Directed Teaching Early Childhood (1 to 12)

A gradual induction into teaching in an early childhood setting through a progression which includes observation of the children and the work of the cooperating teacher, gradual participation, and finally directed teaching under the supervision of the cooperating teacher and the college coordinator. Prerequisite: EDCI 62443 and permission of director of educational field experiences and Admittance to Teacher Education. Corequisite: EDCI 62445. (F, S)

EDUC 61474 - Directed Teaching in the Middle School (1 to 18)

A gradual induction into teaching in the middle school is provided through a progression which includes observation of the student and the cooperating teacher, gradual participation, and finally directed teaching under the supervision of the cooperating teacher and the college coordinator. Prerequisite: Permission of director of educational field experiences and Admittance to Teacher Education. (F, S)

EDUC 61480 - Directed Teaching in Early Childhood Special Education (1 to 8)

A gradual induction into teaching children in a preschool special education environment with emphasis on interpretation of individual tests and application of behavior management techniques. Prerequisite: EDCI 62326 and Admittance to Teacher Education and permission of director of educational field experiences. Corequisites: EDCI 62441, EDCI 62442, EDCI 62443, and EDUC 61569.

EDUC 61481 - Directed Teaching in Cross Categorical Special Education: Elementary (1 to 12)

A gradual induction into teaching students with mild disabilities in a cross categorical setting (elementary) through a progression which includes interpretation of intelligence tests, formal and informal diagnostic procedures, prescriptive instruction and

practical application of teaching strategies and behavior management techniques.

Prerequisite: Permission of director of educational field experiences. Prerequisite: Admittance to Teacher Education. (F, S)

EDUC 61482 - Directed Teaching in Cross Categorical Special Education: Secondary (1 to 12)

A gradual induction into teaching students with mild disabilities in a cross categorical setting (secondary) through a progression which includes interpretation of intelligence tests, formal and informal diagnostic procedures, prescriptive instruction and practical application of teaching strategies and behavior management techniques. Prerequisite: Permission of director of educational field experiences and Admittance to Teacher Education. (F, S)

EDUC 61500 - Special Offering (1 to 4)

EDUC 61511 - Instructional Materials and Equipment (2)

Develops a basic pattern for the preparation of instructional materials, discusses the principles and practices and the utilization of these materials, and provides for instruction for the proper use of equipment in various types of school and educational programs.

EDUC 61520 - Techniques of Classroom Management and Discipline (2)

This course is designed to assist prospective teachers in developing classroom and behavior management techniques. Must be taken concurrently with EDUC 61360, EDUC 61461 and Content Methods. Prerequisite: Admittance to Teacher Education. (F, S)

EDUC 61521 - Seminar in Classroom Management (1)

Course is taken during the student teaching semester and is a continuation of EDUC 61520 with many of those topics readdressed as students are actively engaged in student teaching experiences. The preparatory work done in the 2-hour credit course will serve as a foundation for discussion, for application, for reflection, and for alteration. Must be taken concurrently with student teaching and EDUC 61462. (F, S)

EDUC 61528 - Teaching of the Gifted (3)

Methods, techniques, and materials used in the teaching of the gifted. (S, even years)

EDUC 61530 - Problems of Adult Education (2)

An overview of the growth and need for continuous education through adulthood; emphasis is placed on programs, surveying community needs and coordination of community agencies. (F, even years)

EDUC 61549 - Trends in Continuous School Improvement (1 to 3)

This course is designed to facilitate a continuous learning process throughout the educational system to positively impact student achievement.

EDUC 61550 - Trends in Curriculum Development (1 to 3)

This course is designed to assist teachers and/or administrators in general curriculum design, revision, and or evaluation. Repeatable with a change in topic. (F, S, SS)

EDUC 61551 - Trends in Language Arts (1 to 3)

This course is designed to update teachers in methods, techniques, and innovations in teaching language arts. Repeatable with a change in topic. (F, S, SS)

EDUC 61552 - Trends in Social Studies (1 to 3)

This course is designed to update teachers in methods, techniques, and innovations in teaching social studies. Repeatable with a change in topic. (F, S, SS)

EDUC 61553 - Trends in Mathematics (1 to 3)

This course is designed to update teachers in methods, techniques, and innovations in teaching mathematics. Repeatable with a change in topic. (F, S, SS)

EDUC 61554 - Trends in Science (1 to 3)

This course is designed to update teachers in methods, techniques, and innovations in teaching science. Repeatable with a change in topic. (F, S, SS)

EDUC 61556 - Trends in Classroom Management (1 to 3)

This course is designed to update teachers in methods, techniques, systems, and innovations in classroom management and discipline. Repeatable with a change in topic. (F, S, SS)

EDUC 61557 - Trends in Computer Use in Education (1 to 3)

This course is designed to update teachers in educational uses of computers. Repeatable with a change in topic. (F, S, SS)

EDUC 61558 - Trends in Motivational Techniques (1 to 3)

This course is designed to update teachers in methods, techniques, and innovations in classroom motivation of students. Repeatable with a change in topic. (F, S, SS)

EDUC 61559 - Trends in Instructional Techniques (1 to 3)

This course is designed to update teachers in general instructional methods and techniques for the classroom. Repeatable with a change in topic. (F, S, SS)

EDUC 61569 - Multiculturalism in Education (3)

This course is designed to impart a knowledge of and sensitivity to issues which foster potential prejudices and discrimination. These issues will include race, national origin, sexism, religion, handicaps (physical and mental), economic position and others. Methodology in humanizing the curriculum, sensitivity issues, historical perspectives, and means by which dehumanizing biases may be recognized in instructional materials shall also be included in the content of this course. Prerequisite: Junior classification. (F, S, SS)

EDUC 61570 - The Middle School (3)

Designed to acquaint prospective or experienced teachers and administrators with the functions, organization, curriculum, and personnel associated with the middle school; with concentration on the early adolescent/transescent learner. (S, SS)

EDUC 61585 - Co-Curricular Activities in the Secondary School (3)

The importance of co-curricular activity is studied through the philosophy, purpose, and practices of these activities in the modern secondary school. Also emphasized is the role of the teacher-sponsor in the program.

EDUC 61598 - Problems-Secondary (1 to 4)

Designed to meet individual student needs in independent study. The study topic must be approved by the instructor. Repeatable for a change in topic.

ENGL - English**ENGL 10200 - Special Offering (1 to 4)**

Courses that are offered on only one occasion or variable issue-oriented courses that have the content described in the title. Students may repeat this course with a change in topic. Credit and prerequisites as announced.

ENGL 10300 - Special Offering (1 to 4)

Courses that are offered on only one occasion or variable issue-oriented courses that have the content described in the title. Students may repeat this course with a change in topic. Credit and prerequisites as announced.

ENGL 10400 - Special Offering (1 to 4)

Courses that are offered on only one occasion or variable issue-oriented courses that have the content described in the title. Students may repeat this course with a change in topic. Credit and prerequisites as announced.

ENGL 10425 - Knacktive (3)

Knacktive replicates the creative demands and intense teamwork atmosphere of a technology-oriented, professional marketing communications agency. Interested students must apply for a specific position on a team, participate in an interview, and be selected by the course faculty before registering. Prerequisites: Each position on a team has a minimum prerequisite and students can view the list on the Knacktive website, contact a Knacktive faculty member, or contact their respective department office for more information. Course is repeatable for additional experience. A maximum of three credit hours may be applied to the major or minor. (S)

Grammar and Linguistics**ENGL 10403 - Studies in Language (3)**

Studies of issues related to linguistics, with emphasis on English-language applications beyond traditional or schoolhouse grammar. Specific subject matter of course will change each semester. Possible topics include Ambiguity and Poetics, English and Politics, History and Science of Lexicography, Issues in Translation, Language Acquisition, Philosophies of Language, and so forth. Students may repeat the course with a change in topic. (F)

ENGL 10404 - Schoolhouse Grammars and Pedagogy (3)

Examination of traditional schoolhouse grammars as they are indicative of the issues facing students in today's secondary classrooms. Includes a rigorous study of the literature surrounding the teaching of grammar in K-12 schools and an exploration of effective pedagogical approaches to the teaching of grammars in secondary schools. (S)

ENGL 10409 - Directed Reading in Linguistics (1 to 3)

Tutorial for individual student projects. Instructor's permission required. Students may repeat this course with a change in topic. (F, S)

ENGL 10501 - Writing and Pedagogy (3)

Covers various topics in the teaching of writing. Possible topics include: misconceptions about writing, contemporary composition theory, genre approaches to composition, transfer of learning, basic writing, service-learning pedagogy, writing assessment, writing across the curriculum, and linguistic diversity in the classroom. Specific subject matter will change each semester. Students may take this course multiple times with a change in topic.

ENGL 10504 - Language and Linguistics (3)

A sociocultural linguistic study of the history of the English language, its grammars, and/or dialects, addressing historical and/or current language theories. The specific subject matter and emphasis will change each semester. Possible topics include The History of the English Language, Dialects and Diversity, and Do You Speak Midwestern? Students may take this course multiples times with a change in topic.

Literature**ENGL 10220 - Introduction to Literature (3)**

A general introduction to literature organized around central themes in our global society. Selected themes will vary, but each course offering will include (1) literature from various genres, (2) literature from three centuries and (3) readings from at least three of four distinct cultural categories. Satisfies the Literature requirement in The Northwest Core. (F, S) (MOTR LITR 100)

ENGL 10224 - Multiethnic Literature of the United States (3)

This course focuses on the study and understanding of the literary works of ethnically-diverse peoples of the United States. Students will read texts by American writers with diverse racial and ethnic histories, with attention paid to the social and cultural contexts from which these works arise. (F) (MOTR LITR 105)

ENGL 10226 - Modern and Contemporary World Literature (3)

This course examines literature of the twentieth century and later. The major focus of the course will be on world literature other than that produced in the United States or Great Britain. The course includes close critical reading of a variety of genres as well as attention to the cultural contexts from which the literature derives. (S) (MOTR LITR 200M)

ENGL 10230 - Foundations of Literary Study (3)

This course provides a foundation in literary history and criticism for English majors and minors. Students will practice the technique of careful, close reading of literary texts and will develop as writers of literary criticism and readers of literary theory. Students should take this course within the first year of their pursuit of an English major or minor.

ENGL 10233 - American Literature: Beginnings to 1865 (3)

Development of American literature from the early Colonial period to the mid-19th century. Readings include Edwards, Hawthorne, Poe, Melville, Emerson, Thoreau, Dickinson and Whitman. (F, S) (MOTR LITR 101A)

ENGL 10234 - American Literature: 1865 to the Present (3)

Development of American literature from the end of the Civil War to the present. Readings include Twain, Norris, Crane, Hemingway, Faulkner, Wright, Momaday, Frost, Eliot, Stevens, Hughes and Brooks. (F, S) (MOTR LITR 101B)

ENGL 10245 - English Literature: Beowulf through the 18th Century (3)

A study of selected English literary masterpieces and their backgrounds from the Anglo-Saxons through Boswell's biography of Samuel Johnson. Readings include Chaucer, More, Spenser, Marlowe, Shakespeare, Donne, Milton, Pope, Swift and Boswell. (F, S) (MOTR LITR 102A)

ENGL 10246 - English Literature: Romanticism to the Present (3)

English literature from the Romanticism to the present, including works by Wordsworth, Byron, Keats, Shelley, Browning, Tennyson, Wilde, Hardy, Yeats, Woolf, Joyce, Lawrence, Lessing, Eliot and Auden. (F, S) (MOTR LITR 102B)

ENGL 10305 - The Literary Critic's Craft (3)

A course examining the practice of literary criticism over time and especially in the past century. This course shows such criticism being used in reflection on major texts during what have been on-going debates about the literature scholar's discipline.

ENGL 10325 - Special Studies (1 to 3)

An intensive study of a literary theme, a genre or an approach to writing, language, or literature. The subject matter or emphasis will change each semester. Students may repeat this course with a change in topic. (F, S)

ENGL 10331 - The Bible and Literature (3)

Study of Bible stories as key narratives of Middle Eastern and Western culture, both in their original Biblical contexts and in adapted versions prepared by literary writers of many later eras. Tales from both Old and New Testaments are featured, along with adaptations of them by later poets, playwrights, and novelists.

ENGL 10340 - Cultural Studies in Literature (3)

This course will focus on the literature of ideologies, identities, and/or social movements. The subject matter of emphasis will change each semester. Potential subjects include the following: The Harlem Renaissance; Contemporary Queer Literature; and Literature and Regional Identities. Students may repeat this course with a change in topic for a maximum of nine hours.

ENGL 10341 - Literature and Film (3)

This course will examine the interrelationship between film and literature by studying various literary forms -- novels, short stories, non-fiction and poetry -- alongside related motion pictures and genres. Prerequisites: ENGL 10111 and ENGL 10112, or ENGL 10115; and ENGL 10220.

ENGL 10343 - Survey of Women's Literature (3)

A study of women's literature in all genres from the Middle Ages to the present. Readings may include Kempe, Lanyer, Behn, Wollstonecraft, Chopin, Gilman, Woolf, Lessing, Atwood, Kingston, Silko and Walker. (S, alt. years)

ENGL 10351 - Science Fiction Literature (3)

An examination of the history, thematic development, and artistic and social impact of science fiction, especially in print but not exclusive of other literary media. A fundamental goal of the course will be to interrogate how science fiction, which exemplifies the broader genre of fantastic literature, is not only fantastic but also literature. Prerequisites: ENGL 10111 or ENGL 10115; and ENGL 10220.

ENGL 10372 - Introduction to Shakespeare (3)

An introduction to Shakespeare's most popular and/or important plays and poems, including the sonnets, Romeo and Juliet, The Taming of the Shrew and such works as The Tempest, Hamlet, Macbeth, A Midsummer Night's Dream, Richard III and Venus and Adonis. (F, alt. S)

ENGL 10428 - Directed Reading in Literature (1 to 6)

Tutorial for individual student projects. Instructor's permission required. Students may repeat this course with a change in topic. (F, S)

ENGL 10520 - Studies in Early British Literature (3)

A study of genres, figures, and/or issues from British literature of the Medieval and Renaissance periods. Specific subject matter and emphasis of course will change each semester. Possible topics include Middle English Literature, which would include Medieval writers such as Chaucer, Margery Kempe, and Sir Thomas Malory; Renaissance Drama, examining the works of authors such as Christopher Marlowe, Elizabeth Cary, and Shakespeare; or intensive focus on the works of a specific writer such as the Pearl Poet, Edmund Spenser, or John Milton. Students may repeat the course with a change in topic.

ENGL 10530 - Studies in British Literature, 18th Century-Present (3)

A study of genres, figures, and/or issues from British literature of the past 300 years. Specific subject matter and emphasis will change each semester. Possible topics

include Literature of the Romantic Movement, examining works by authors such as Emily Bronte, William Wordsworth, Mary Shelley, and Lord Byron; The Victorian Age, featuring writers such as Charles Dickens, Elizabeth Barrett Browning, and Rudyard Kipling; or Twentieth-Century British Fiction, including writers such as Joseph Conrad, Virginia Woolf, James Joyce, and Anthony Burgess. Students may repeat the course with a change in topic.

ENGL 10540 - Studies in Multiculturalism and World Literature (3)

An intensive study of World Literature or Multicultural Literature. Specific subject matter and emphasis of course will change each semester. Possible topics might include Literature of the Harlem Renaissance, with works by authors such as Hughes, Toomer, McKay, Hurston, and Bontemps; The Development of the Modern Novel, examining novels by authors such as Petronius, Boccaccio, Cervantes, Voltaire, Austen, Dostoevsky, Woolf, Beckett, Robbe-Grillet, Morrison, and Achebe; or Anglophone Literature: Fiction of the Post-Colonial World, including works by Rushdie, Naipaul, Gordimer, Lessing, Coetzee, White, Atwood, Munro, and Achebe. Students may repeat the course with a change in topic.

ENGL 10550 - Studies in American Literature (3)

An intensive study of topics in American Literature. Specific subject matter and emphasis will change each semester. Sample topics include American Romanticism, with such authors as Emerson, Thoreau, Fuller, Whitman, and Dickinson; The Small Town in American Literature, with works by Hawthorne, Twain, Anderson, Lewis, Gaines, Lee, King, Morrison, and Faulkner; American Modernism and the Long Poem, examining the long works of Whitman, Eliot, Williams, H.D. Stevens, Seamus Heaney, and Rita Dove. Students may repeat the course with a change in topic.

Pedagogy

ENGL 10321 - Teaching Reading in Middle and Secondary English Classrooms (3)

This course addresses theoretical positions, instructional frameworks, and assessment approaches for teaching reading. Students studying to be middle and secondary English teachers will approach reading from multiple frameworks - including reading as information processing, reading as

skills/strategies, reading as social-cultural construction, reading as inquiry, and reading as engagement - and consider instruction and assessment grounded in research-based best practices. (F)

ENGL 10322 - Introduction to the Teaching of Writing (3)

Strategies for effective teaching of writing, with some background on writing research and theory. (S)

ENGL 10380 - Introduction to Writing Center Studies (1)

Introduces students to the field of Writing Center Studies and peer tutoring skills, including theoretical and practical applications. Co-requisite: Writing Center employment. (F)

ENGL 10580 - Methods in Secondary School English (3)

Study and practice in strategies for effective teaching of the English language arts in secondary schools. Includes materials, methods, planning, assessment and evaluation, and current issues and trends in teaching the English language arts. Prerequisite: Admittance to Teacher Education. (F)

ENGL 10590 - Young Adult Literature (3)

A study of literature for grades 7 through 12 and the ways that literature can be taught in the classroom. The course teaches students to judge young adult literature by accepted and respected critical standards and to understand what makes the literature suitable for students. (S)

Writing

ENGL 10101 - English as a Foreign Language (3)

For the individual needs of students whose native language is not English. Meets five times per week. Does not fulfill the ENGL 10110 or ENGL 10111 requirement.

ENGL 10110 - Introduction to College Writing (3)

A college-level composition course designed to develop skills in prewriting, drafting, editing, and rewriting. Recommended for students who scored below 40 on the Directed Self Placement questionnaire or an ACT English subscore of 17 or below may be used (if DSP score not available). (F, S)

ENGL 10111 - Composition I: Academic Literacies (3)

Study and practice in reading and writing texts towards development of college-level academic literacies. Students will engage through writing and reading in knowledge-based inquiry and sustained critical thinking for the purpose of better understanding the subject or issue. Concepts taught will include academic rhetoric and argumentation, research and documentation. Prerequisite: A grade of C or better in ENGL 10110, a score of 40 or higher on the Directed Self Placement questionnaire, or an ACT English subscore of 18 or higher (if DSP score not available). (MOTR ENGL 100)

ENGL 10112 - Composition II: Writing as Engagement (3)

Study and practice of writing as a form of engagement in public and personal contexts. Builds on skills practiced in English 111 (academic rhetoric, argumentation, research, and documentation) while broadening the contexts in which these skills are used. Students will complete an extensive writing project which may incorporate various forms of writing and other media. Prerequisite: ENGL 10111. (MOTR ENGL 200)

ENGL 10115 - Accelerated Composition (3)

Combines the course material of ENGL 10111: Composition I - Academic Literacies and ENGL 10112: Composition II - Writing as Engagement into one semester. Skills covered will include those required for academic literacies, such as academic rhetoric, argumentation, and research, as well as those applicable to writing and reading beyond the university. Students will complete an extensive writing project which may incorporate various genres and media as well as primary and secondary research. For further information, see the course descriptions for ENGL 10111 and ENGL 10112. Satisfactory completion of this course fulfills all six hours of The Northwest Core requirements for Written Communication. Three, GPA bearing, credit hours will be applied for ENGL 10115. Three, non-GPA bearing, credit hours will be applied as well. Prerequisite: A score of 60 or higher on the Directed Self Placement questionnaire OR an ACT English subscore of 27 or higher (if DSP score not available). (F, S) (MOTR ENGL 100)

ENGL 10203 - Writing and Rhetoric (3)

Writing and Rhetoric is an introductory course that explores the relationship of rhetorical theory to past and contemporary

forms of written communication, both digital and offline. Students will use the tools of rhetoric to analyze writing, write persuasively, and think critically about both contemporary and classical rhetorics across an array of cultural contexts. This course may be used to satisfy the written communication requirement in The Northwest Core for students who enter the University with credit for only ENGL 10112. Prerequisite: ENGL 10112 or ENGL 10115. (F)

ENGL 10210 - Introduction to Creative Writing (3)

A multi-genre introduction to creative writing. Emphasis is on producing and responding to creative work in various genres including poetry, fiction and creative nonfiction. Prerequisite: ENGL 10112 or ENGL 10115. (F, S)

ENGL 10312 - Creative Writing: Creative Nonfiction (3)

Composition of original creative nonfiction. Students have the opportunity to study published works, write original works, critique the works of others and consult with the professor about their works on a regular basis. Prerequisite: ENGL 10112 or ENGL 10115. (Alt. years)

ENGL 10313 - Creative Writing: Fiction (3)

Composition of original short stories or other forms of prose fiction. Students have the opportunity to study published works, write original works, critique the works of others and consult with the professor about their works on a regular basis. Prerequisite: ENGL 10112 or ENGL 10115. (F)

ENGL 10314 - Creative Writing: Poetry (3)

Composition of original poetry and study of poetic forms and techniques. Students have the opportunity to study published works, write original works, critique the works of others and consult with the professor about their works on a regular basis. Prerequisite: ENGL 10112 or ENGL 10115. (S)

ENGL 10315 - Professional and Technical Writing (3)

This course provides instruction in the rhetorical concerns of professional and technical writing, such as writing process, ethics, document design, and awareness of audience, purpose, genre, and context. It also provides individual practice with common professional and technical genres, and may include practice with collaboration in activities, assignments, and

larger projects. Prerequisite: ENGL 10112 or ENGL 10115 or permission of instructor.

ENGL 10316 - Creative Writing: Playwriting (3)

Composition of original short plays, dramatic scenes and monologues. The course provides an examination of the elements, discipline and art of playwriting through analysis of established plays and creation of original short plays, dramatic scenes and monologues. Cross listed as THEA 43316 Playwriting. Prerequisites: ENGL 10210 or THEA 43225 or permission of instructor.

ENGL 10405 - Senior Seminar (3)

A capstone course focused on further practice in researching and writing about literature and the teaching of literature. In addition to compiling a portfolio of materials to aid in application to graduate schools or teaching positions, students will have the opportunity to practice public presentation of their writing in order to synthesize various elements of critical thinking, reflect on major texts and demonstrate research abilities as well as analytic skills in the discipline. Prerequisite: ENGL 10580 (for B.S.Ed.-Minor Required students only) OR ENGL 10305 (for all other majors).

ENGL 10410 - Professional Portfolio Preparation (3)

A capstone class for B.S. in English students, focused on preparing a professional portfolio to facilitate application for jobs in writing, editing and publishing. Prerequisite: Senior standing or instructor permission.

ENGL 10414 - Approaches to Creative Writing (3)

An intermediate creative writing workshop that investigates issues of craft, form, and theory through reading, writing, and discussion. Students have the opportunity to study published works, write original works, critique the works of others, and consult with the professor about their works on a regular basis. The specific content of the course changes each time the course is offered. Course topics may include Poetic Forms, Hybridity, Prose Poetry, Critical Reading for Creative Writers, Flash Fiction, Villainy and Bad Behavior in Fiction, The Novella, Approaches to Revision, Exploring Subtext in Fiction, Lyric Essay Forms, and Intentional Experience Essays. Students may repeat the course with a change in topic. Prerequisite: ENGL 10210 or ENGL 10312 or

ENGL 10313 or ENGL 10314 or ENGL 10316 or instructor permission.

ENGL 10419 - Directed Writing (1 to 4)

Independent work in creative or expository writing. Instructor's permission required. Students may repeat this course with a change in topic. (F, S)

ENGL 10430 - Digital Literacy (3)

A course on the reading and composing of digital texts including study of genre and rhetoric in a number of digital environments. The specific content of the course will vary each semester, with topics such as "Internet Rhetoric," "Emerging Online Genres," "Writing and Online Identity," or "The Digital Humanities." This course does not require coding knowledge. Students may repeat the course with change of topic. Prerequisite: ENGL 10112 or ENGL 10115.

ENGL 10495 - Internship in Writing and Research (1 to 8)

Internships (paid and unpaid) will be offered as available or as located by students. Internships require a written proposal at the time of registration and permission of the instructor and department chair. Fifty work hours are required for each hour of academic credit. A maximum of three credit hours may be applied to the major or minor. Course may be repeated for a maximum of 11 hours. Prerequisites: Junior standing and three hours of writing courses at the 300 level or above.

ENGL 10512 - Publication Skills (3)

This course covers major skills required in publishing, provides an overview of the publishing industry, and prepares students for work in areas of technical writing, magazine editing and freelance copyediting. Prerequisites: Junior or graduate student standing, or instructor permission.

ENGL 10515 - Advanced Professional and Technical Writing (3)

This course develops students' understanding of and practice in the rhetorical, practical, and ethical concerns in professional and technical writing contexts. Furthermore, this course challenges, complicates, and expands students' previous understanding with more theoretical and global writing concerns. In the course, students practice writing both in individual assignments and research projects, which may include focusing more specifically on a particular professional discipline,

industry, or area and/or produce document-based solutions for professional problems. Prerequisite: ENGL 10315 or instructor approval. (S)

ENGL 10560 - Advanced Creative Writing (3)

An advanced course in the study and writing of original poetry, fiction, or creative non-fiction. Specific subject matter and emphasis will change each semester. Students may repeat the course with a change in topic. Prerequisite: A 300- or 400-level creative writing class or consent of instructor.

ENGL 10570 - Advanced Studies in Writing and Rhetoric (3)

Covers various issues in writing and rhetoric. Specific subject matter will change each semester. Possible topics might include: the history of rhetoric, contemporary rhetorical theory, composition theory, genre theory, research methods in composition, qualitative research methodology. Students may repeat this course with a change of topic.

FIN - Finance

FIN 53120 - Personal Money Management (3)

An introduction to the basic principles and practice of successful personal money management. The life cycle of personal financial planning and management will be discussed.

FIN 53311 - Business Law I (3)

Fundamental principles of law in relation to the legal environment of business, including procedure and evidence, business ethics, court systems, contracts, torts, administrative law and constitutional law.

FIN 53312 - Business Law II (3)

Fundamental principles of law in relation to business, including agency, negotiable instruments, secured transactions, bankruptcy, partnerships, corporations and other business entities.

FIN 53320 - Insurance and Risk (3)

A study of the principles of insurance, including the various types of insurance coverages such as home, auto, life and health, as well as principles of risk management.

FIN 53324 - Fundamentals of Business Finance (3)

A study of the financial structure of corporations, principles and techniques used in financial analysis and decision-making. Prerequisites: A grade of C or better in ACCT 51202 and MATH 17116 or MATH 17117 or MATH 17118 or MATH 17119 or MATH 17120 or consent of instructor.

FIN 53325 - Investment Principles (3)

A study of the principles of investment and investment vehicles. Prerequisite: FIN 53324 with a minimum grade of C.

FIN 53326 - Investment Management (3)

A course dealing with fixed income, derivatives, and foreign exchange. Prerequisite: FIN 53324 and FIN 53325 both with a minimum grade of C.

FIN 53327 - Intermediate Financial Management (3)

An in-depth study of financial theory and practices including such topics as capital structure, dividend policy, capital budgeting, asset pricing and working capital management. Prerequisite: FIN 53324 with a minimum grade of C.

FIN 53419 - Alternative Investments and Portfolio Management (3)

A study of alternative investments including such assets as private equity, hedge funds, commodities, and real estate. Prerequisite: FIN 53324 with a minimum grade of C.

FIN 53420 - Financial Institutions (3)

A course which deals with structure, functions, policies and decision-making within financial institutions. Prerequisites: FIN 53324 with a minimum grade of C.

FIN 53421 - Selected Cases in Finance (3)

An advanced case study course dealing with the management of corporate finance. Prerequisites: FIN 53327 with a minimum grade of C.

FIN 53425 - Intern in Finance (1 to 3)

Finance majors may, with approval from the School Director, enroll in an internship section. This is recommended for students with junior or senior standing. This course is repeatable for new experience.

FIN 53429 - Independent Study in Finance and Insurance (1 to 3)

Finance majors may, with approval from the School Director, enroll in an independent study section. The approval must be received during the term preceding enrollment. This course is repeatable with topics changing.

GEOG - Geography**GEOG 32101 - Introduction to Geography (3)**

Survey course designed to familiarize students with the geographic studies including the relationship between humans and the natural environment as well as spatial patterns of human activities. Cultural, socio-economic, political and physical spatial patterns relating to an increased understanding of contemporary local, national and global issues will be emphasized. (F, S, SS) (MOTR GEOG 101)

GEOG 32102 - People and Cultures of the World (3)

Course introduces a geographical perspective that examines the cultural, political, and physical processes that shape the diverse regions of the world. (F, S, SS) (MOTR GEOG 101)

GEOG 32201 - Maps and Spatial Reasoning (3)

This course introduces concepts such as map projections, map distortion, coordinate systems, and map measurement techniques designed to help students learn how to analyze and interpret map information. (F, SS)

GEOG 32207 - GPS Fundamentals (3)

An introductory course to the Global Positioning System and the integration with other geospatial technologies, such as Geographic Information System (GIS) and remote sensing, for field or in-office work. (F, S)

GEOG 32211 - Special Topics in Geography (1 to 4)

This course will be offered according to student needs and interest. Each offering will be designed to incorporate the latest information pertaining to a timely topic in geography. May be repeated once to earn no more than six credits total.

GEOG 32221 - Economic Globalization (3)

Survey course dealing with the increasing integration and interdependence of national, regional, and local economies across the world through an intensification of cross-border movement of goods, services, technologies, and capital. (S)

GEOG 32340 - Geography of North America (3)

An introduction to the regional approach that examines variations in the physical and human geography focused on the United States and Canada. (F)

GEOG 32360 - Dynamic and Synoptic Meteorology (3)

A study of the physical characteristics of the atmosphere and the variables that control day-to-day weather at local and regional (synoptic) scales. Prerequisite: GEOG 32101 or GEOL 27114 and GEOL 27115. (S, even years)

GEOG 32361 - Climatology (3)

Climate types and their significance to ecosystems and human activities are discussed. Emphasis is placed on applied climatology, paleoclimatology and the significance of climate change. Prerequisite: GEOG 32360 or GEOL 27114 and GEOL 27115. (S, odd years)

GEOG 32362 - Web Mapping (3)

An introductory course that prepares students to work with web-based mapping and internet cartography. Students will utilize a variety of industry standard tools to produce web-based map products and become familiar with the world of web-based GIS. Prerequisite: GEOG 32201 or taking concurrently. (S)

GEOG 32364 - Image Interpretation and Analysis (3)

An introductory course on reading images and photos. Special attention is placed on techniques for processing photos and images in a timely manner, identifying objects or areas of interest, extracting information from images and photos, comparing before and after images and photos for change detection, and other methods. Prerequisite: GEOG 32201 or taking concurrently. (S)

GEOG 32365 - Geographic Information Systems (3)

An introduction to geographic information systems encompassing the theoretical and applied aspects of the collection, storage, analysis and display of spatial (geographical)

data. Prerequisite: GEOG 32201 or junior standing. (F, S)

GEOG 32370 - Natural Disasters (3)

A course designed to analyze the processes that result in disasters, both natural and human-induced. Topics such as preparedness, mitigation and prevention of disasters will also be discussed. Prerequisite: GEOG 32101 or GEOL 27114. (S)

GEOG 32401 - Conservation of Natural Resources (3)

A study of the earth's environment and resource limits as related to population growth and humankind's need to provide food, water, mineral resources, and energy in order to survive and prosper. Emphasis is placed on developing an appreciation for the interconnectedness of the natural world and the potential consequences of disrupting those connections. (F)

GEOG 32409 - Independent Study in Geography (1 to 3)

Offered only by special arrangement and with the consent of the instructor involved and the department chairperson. Requires written proposal at time of registration. Repeatable for additional experience.

GEOG 32410 - Geographic Approaches to Research (3)

An advanced capstone course in geographic research, emphasizing data collection, analysis, and presentation. The course will also examine the history of geographic thought in the U.S. Prerequisites: GEOG 32201 and junior standing. (F)

GEOG 32415 - Internship in Geography (1 to 3)

Students register for internship credit with the permission of the instructor, department chairperson, and a written proposal at the time of registration. The internship packet available from the Department of Humanities and Social Sciences specifies the requirements for earning academic credit for the internship. Student enrolls in the appropriate number of credit hours for the workload of the internship. As a guideline, 160 work hours are worth 3 credit hours. Repeatable for additional experience.

GEOG 32441 - Geography of Europe (3)

An advanced regional course examining the nations and regions of the European cultural area excluding Russia. (S, even years)

GEOG 32442 - Geography of Asia (3)

An advanced regional course examining the peoples and regions of Asia including Russia, Central, East, South, and Southeast Asia. (S, odd years)

GEOG 32443 - Geography of the Middle East (3)

An advanced regional course focused on the physical and human geography of Southwest Asia and North Africa. (S, odd years)

GEOG 32444 - Geography of Africa (3)

A comprehensive course study of the physical and cultural geography of the African continent. (S, even years)

GEOG 32445 - Geography of Latin America (3)

A systematic and regional approach to the physical and human geography of Latin America. The course emphasizes culture, politics, development, and resource utilization. (F, odd years)

GEOG 32450 - Forced Migration and Displacement (3)

An advanced course that explores the contemporary state of forced migration on a global scale and investigates the evolution of international humanitarian responses. Emphasis is placed on causes of forced migration, international responses to managing this migration, and future trends in human displacement.

GEOG 32462 - Digital Cartography and Geovisualization (3)

A cartography course that utilizes the theoretical concepts and the applications of digital cartography. The focus is on developing publication quality maps that are designed to convey specific information to the map reader. In addition, techniques used for geographic visualization and computer animation are also introduced. Prerequisite: GEOG 32201 or permission of instructor. (F)

GEOG 32463 - Remote Sensing (3)

Remote sensing is an introductory course designed for the geography and/or geology major interested in analyzing the earth from the atmosphere and outer space. Prerequisite: GEOG 32201 or permission of instructor. (F)

GEOG 32465 - Introduction to Customized GIS (3)

A course designed to apply state-of-art programming language to customize and automate GIS tasks. Customization of GIS provides users with personalized and specialized functions and interfaces while automation makes daily geoprocessing analysis easier and faster. Prerequisites: GEOG 32365. (S)

GEOG 32499 - Senior Seminar (1)

A capstone course in geography. Course is designed to assess the student's ability to synthesize and evaluate geographic knowledge as it applies toward professional enhancement and/or further professional development in higher education. Prerequisites: Senior standing and completion of the Geography Core. (F)

GEOG 32510 - Geographic Education: Themes and Materials (2)

Designed for elementary or secondary teachers wishing to incorporate an instructional unit in geography in either the social science or science curriculum.

GEOG 32511 - Special Topics (1 to 3)

Will be offered according to student needs and interest. Each offering will be designed to apply the latest information or techniques pertaining to a timely topic in geography/GIS. Prerequisites: 12 hours of geography and permission of instructor. Repeatable for new area of study to earn no more than six credits total.

GEOG 32520 - Military Geography (3)

An advanced course in geography that applies both physical and human spatial approaches to the study of military issues across the spectrum of conflict.

GEOG 32521 - Geopolitics (3)

An advanced course in geopolitics with emphasis on fundamental principles and their application to the major regions and nations of the world today. Prerequisite: Junior standing or permission of instructor. (F, even years)

GEOG 32522 - Cities and Urban Design (3)

An advanced course offering an in-depth study of characteristics of cities and problems faced in urban environments. The course emphasizes how historical, social, and cultural factors shape cities. Prerequisite: Junior standing or permission of the instructor. (S, even years)

GEOG 32565 - Advanced Geographic Information Systems (3)

Builds on the techniques and concepts learned in Geographic Information Systems (GEOG 32365). Stresses research and project design strategies and advanced analytical techniques using geographic information systems to solve spatial problems. Prerequisites: GEOG 32365. (S)

GEOL - Geology

GEOL 27110 - General Geology (3)

A study of Earth as a dynamic planet, with a focus on internal and external processes. Common themes include: earth materials, earthquakes, volcanism, mountain building, streams, groundwater, and surficial processes. When possible, these processes are placed in the context of human uses and other impacts. Three one hour lectures per week. GEOL 27111 must be taken concurrently. (F, S, SS) (MOTR GEOL 100L)

GEOL 27111 - General Geology Laboratory (1)

'Hands-on' laboratory instruction in identification of common minerals and rocks, the uses of topographic maps, surface and subsurface processes, and water and related resources. Laboratory methods may include physical identification, pen and paper analyses, and computer-based data analyses. Must be taken concurrently with GEOL 27110. (F, S, SS) (MOTR GEOL 100L)

GEOL 27114 - General Earth Science (3)

A general introductory survey of the earth sciences of physical geography, geology, oceanography, climatology and meteorology. The connection between the various components of the earth system will be analyzed. Recommended to fulfill a Northwest Core requirement. GEOL 27115 must be taken concurrently. (F, S, SS) (MOTR PHYS 110LES)

GEOL 27115 - General Earth Science Laboratory (1)

This course gives students a chance to apply, through written exercises, the concepts discussed in GEOL 27114. Must be taken concurrently with GEOL 27114. (F, S, SS) (MOTR PHYS 110LES)

GEOL 27130 - Information Technology and Science (3)

Course studying the basics of computer systems and software used at Northwest as

well as the professional world. Topics reviewed will include studies of PC-based computer systems, use of the Northwest network system, effective use of Internet resources and common productivity software (such as office programs, suites, e-mail, Web-course) with particular emphasis on applications to science and technology. Three lecture hours each week. (SS)

GEOL 27212 - Historical Geology (4)

This course employs a study of deep time, important rock units, plate tectonics and the fossil and stratigraphic records to illuminate the physical and biological evolution of Earth. Special emphasis is placed on the formation and subsequent physical evolution of North America, and the origin and evolution of life as understood from evidence in the fossil record. The course consists of three lectures per week and concurrent enrollment in the weekly two-hour laboratory. Prerequisite: GEOL 27110 and GEOL 27111 or GEOL 27114 and GEOL 27115. (S)

GEOL 27214 - Gemology (3)

An introduction to gemology including description, identification, grading of gems and their substitutes. (alt. semesters, alt. years)

GEOL 27220 - Mineralogy (4)

A survey of chemical and physical mineralogy including identification of minerals, structural grouping of minerals, occurrence of silicate minerals, as well as deposits and uses of nonsilicate minerals. Three lectures and one two-hour lab. Prerequisites: GEOL 27110 and GEOL 27111 or GEOL 27114 and GEOL 27115 and CHEM 24112 and CHEM 24113 or permission of instructor. (F)

GEOL 27305 - Practicum in Teaching Laboratory (1)

To assist faculty in beginning level laboratory situations in classes like GEOL 27111, GEOL 27115, GEOL 27220 and for preparation for teaching positions in graduate school. Prerequisites: Successful completion of the course, permission of the laboratory instructor and department chairperson and a major or minor in geology or geography. (F, S, SS)

GEOL 27320 - Geology Field Trip (1 to 3)

This course is designed to introduce students to the use of basic field investigation to understand geologic processes from evidence in the rocks. Field trip localities are selected to provide an introduction to

minerals, rock types, fossils, structures, landforms, or other geologic phenomena that are not found locally. Prerequisite: GEOL 27110 and GEOL 27111 or GEOL 27114 and GEOL 27115 or permission of the instructor. Repeatable for new area of study. (F)

GEOL 27326 - Geology of the Natural Parks (3)

A study of the geologic features of the 38 U.S. National Parks including consideration of their causes and changes. Prerequisite: GEOL 27110 and GEOL 27111 or GEOL 27114 and GEOL 27115. (F)

GEOL 27335 - Physical Oceanography (3)

A study of the oceans including the physical properties of the oceans and marine geology. Prerequisite: Completion of general education science requirement. (S, even years)

GEOL 27340 - Introduction to Hydrogeology (3)

A study of practical hydrogeologic principles typically used in the environmental consulting industry. Topics studied cover the occurrence, movement, quality, contamination and management of groundwater. Two lecture hours and one two-hour laboratory session per week. Prerequisites: GEOL 27110 and GEOL 27111 or GEOL 27114 and GEOL 27115 and MATH 17118. (S)

GEOL 27360 - Environmental Geology (4)

A study of geology focusing on the inter-relationship between man and his environment and resulting impacts to the Earth's systems. Topics investigated include natural processes as hazards, man's impacts on earth resources as well as contemporary environmental issues. Three lecture hours and one two-hour laboratory session each week. Prerequisite: GEOL 27110 and GEOL 27111 or GEOL 27114 and GEOL 27115. (F)

GEOL 27415 - Internship in Geology (1 to 6)

Outreach efforts by students and faculty often generate internship opportunities with environmental consulting firms, natural resource companies and government agencies. Internship courses require approval of the instructor, department chairperson, and employer offering the opportunity along with a written proposal from the student at the time of registration. The student enrolls in the appropriate number of credit hours for the work load of the internship. Typically, 160 work hours are worth 3 credit hours.

Repeatable for additional experience. (F, S, SS)

GEOL 27420 - Petrology (4)

A study of igneous, sedimentary and metamorphic rocks including identification, mineral compositions, fabrics, textures, occurrences, genesis and classifications. Three lectures and one two-hour laboratory per week. Prerequisite: GEOL 27220. (S)

GEOL 27423 - Economic Geology (4)

This course investigates the origin and distribution of metallic and industrial minerals in Earth's crust. Major types of ore deposits are discussed, with a focus on exploration, exploitation, and remediation. Where possible, deposits are discussed in the context of local, regional, and global economic and political impacts. Three one-hour lectures and one two-hour laboratory per week. Prerequisite: GEOL 27220. (F, odd years)

GEOL 27424 - Geochemistry (3)

This course focuses on theoretical and applied geochemical approaches to understanding geologic systems. Emphasis is placed on acid-base and solubility equilibria, and stable and radiogenic isotope chemistry, primarily as related to geochronology and the investigation of shallow crustal rocks. Prerequisites: GEOL 27220. (F, even years)

GEOL 27440 - Stratigraphy (4)

A study of the principles and concepts used to study the stratigraphic sequence of rocks, including sedimentary environments, biostratigraphy and time-stratigraphic correlation. Three one-hour lectures and one two-hour lab. Prerequisite: GEOL 27212. (F, odd years)

GEOL 27450 - Structural Geology (4)

The study of the architecture of rock units in Earth's crust as a result of deformation associated with Earth's tectonic forces. Subject matter includes stress-strain relationships, folds, faults, rock fabrics, and plate tectonics. Laboratory techniques include strike and dip, scaled drawings and construction techniques, geologic maps and cross-sections, isopach maps, structural maps, and stereonet. Five hours of lecture and laboratory per week. Prerequisites: GEOL 27212 and GEOL 27420 and one mathematics course that incorporates trigonometry. (S)

GEOL 27455 - Geologic Field Methods (3)

Basic geological surveying techniques will be studied in the field. Notebook procedures and reporting will be stressed. Prerequisite: Geology Major or minor with 20 hours in geology. (SS)

GEOL 27498 - Senior Seminar (1)

A capstone course in Geology. A student will examine current geologic research results and techniques, investigate employment opportunities, and assess his/her fundamental understanding of geology. Prerequisites: senior standing as a Geology, Environmental Geology or Unified Science in Earth Science major, and a GPA of at least 2.0 in the major. (F)

GEOL 27501 - Special Topics in Geology (1 to 4)

Will be offered according to student needs and interest. Each offering will be designed to incorporate the latest information pertaining to a timely topic in geology. Topics may include: rock and mineral origins and classifications, groundwater, energy, age of dinosaurs, fossils and the history of life, volcanoes and earthquakes, and glacial geology. Prerequisite: One year of college-level science or permission of the instructor. Repeatable for new area of study.

GEOL 27510 - Geomorphology (3)

A study of landforms, focusing on the description, recognition, classification and formation processes. Topics investigated include the origin and nature of geomorphologic processes shaping different landforms, along with the influence of geologic controls, climate and other factors impacting these processes. Two lecture hours and one two-hour laboratory session per week. Prerequisite: GEOL 27110 and GEOL 27111 or GEOL 27114 and GEOL 27115. (S, even years)

GEOL 27515 - Environmental Regulations (2)

An introduction to federal and state regulations and major issues associated with the environment including air quality, ground water quality and the disposal of hazardous waste. Two lecture hours each week. Prerequisites: GEOL 27360 or BIOL 04420 or GEOG 32401 or permission of instructor. (S, odd years)

GEOL 27520 - Geology Field Trip (Advanced Level) (2)

An advanced version of the introductory field course, GEOL 27520 combines basic field

investigation with a short project that focuses on a feature of interest from the field trip area. Potential projects include thin section petrography and optical mineralogy, written descriptions of features of interest, reflective essays, or other projects as approved by the course instructor. Prerequisite: GEOL 27212. Repeatable for new area of study. (F)

GEOL 27530 - Sedimentology (4)

A study of the production, transportation, deposition, and lithification of sediments. Includes comparison of classifications, techniques of using sediments in environmental interpretations and laboratory techniques in sediment study. Three one-hour lectures and one two-hour laboratory per week. Prerequisites: GEOL 27212. (F, odd years)

GEOL 27540 - Paleontology (4)

A general study of fossils, including classification of plants and animals, development and evolution of prehistoric life, paleontological techniques, and use of fossils as time and ecological guides. Lab includes study and identification of the major fossil groups. Emphasis is on invertebrate animals, with a general review also of microfossils, plants, and vertebrates. Three one-hour lectures and one two-hour laboratory. Prerequisites: GEOL 27212 or permission of instructor. (S)

GEOL 27555 - X-Ray Analysis (3)

Theory and application of x-ray diffraction. Consideration will be given to sample preparation, laboratory procedures and analysis of data. Prerequisite: GEOL 27220 or permission of instructor. (S, alt. years)

GEOL 27560 - Optical Mineralogy (3)

A study of the optical properties of non-opaque minerals through use of the petrographic (polarizing) microscope utilizing both oil immersion and thin section methods. Prerequisite: GEOL 27220. (F, even years)

GEOL 27590 - Seminar in the Earth Sciences (2)

Seminar and studies of advanced topics in selected fields in geology and other earth sciences. Two hours per week in lecture, seminar or lab appropriate to the topics. Prerequisites: GEOL 27110 and GEOL 27111.

GEOL 27595 - Geologic Data Analysis and Scientific Writing (3)

A studio course introducing different data types used in the geosciences and other disciplines to understand environmental problems, providing skills needed to quantitatively analyze environmental and geologic data. Some of the topics covered will include statistical data analysis including computer-supported geologic applications of elementary statistics, time-series analysis, trend-surface analysis, factor analysis, cluster analysis, analysis of directional data and regression analysis. Familiarity with basic computer skills, including Microsoft Excel, helpful. Prerequisite for undergraduates: MATH 17118. (S, odd years)

GEOL 27599 - Special Investigations in the Earth Sciences (1 to 3)

Independent studies in the earth sciences including but not limited to research and library studies. Enroll only with consent of department chairperson. Requires written proposal at time of registration. Repeatable for additional experience, new material and progression of study. (F, S)

HIST - History

HIST 33155 - The United States to 1877 (3)

An introduction to the themes, events, people, issues, and debates in U.S. history from the earliest settlements through Reconstruction. (F, S, SS) (MOTR HIST 101)

HIST 33156 - The United States since 1877 (3)

An introduction to the themes, events, people, issues, and debates in U.S. history since Reconstruction. (F, S, SS) (MOTR HIST 102)

HIST 33225 - Race and Ethnicity in America (3)

Focuses on the historical development of ethnicity and race in America. Emphasis will be placed on changing ethnic and racial consciousness and inclusion and exclusion in American society. (F, even years)

HIST 33301 - The Historian's Craft and Its Uses (3)

This course is designed to introduce the student to the tools of the craft; to research, to writing and to critical thinking, as well as to the product of the craft—the uses of history—both academic and public, with grant writing experience. (F, S)

HIST 33302 - Digital Humanities (3)

This course develops students' application of digital research, presentation, and theoretical tools in the humanities. Focusing on digital history, students will explore current research and apply a methodology to their own projects while broadening their understanding of digital humanities. The course will focus especially on application of digital tools in the humanities by addressing the theories, methods, and application of the diverse digital humanities resulting in student generated projects. (F, even years)

HIST 33303 - Global Health in History (3)

Health and illness have shaped human history for millennia. In this course students will explore different global health concerns and crises and how they have shaped social, cultural, and political change.

HIST 33305 - The Ancient World (3)

The study of the major events, trends, and personalities of the ancient Mediterranean world focusing on ancient Mesopotamia, Egypt, Greece, or Rome. Special emphasis is placed on those concepts which are foundational for modern culture and society: identity, gender, religion, conflict. The course is repeatable for new experiences up to 6 credit hours.

HIST 33306 - The Modern World (3)

A comparative study of the major events, trends, and personalities of the modern world. Special emphasis is placed on the causes and consequences of industrialization, urbanization, globalization, conflict, migration, and nationalism. (S, even years)

HIST 33310 - France Since Louis XIV (3)

An advanced survey of French history from the reign of Louis XIV to the European Community. (S, even years)

HIST 33313 - American History of Science, Technology, and Medicine (3)

This course introduces students to topics in the history of science, technology, and medicine from the perspective of US history. Students will learn about major trends in the way science was practiced and viewed over time and the impact of medical, scientific, and technological change on society.

HIST 33314 - Environmental History of the US (3)

This course introduces students to the study of environmental history in the United States. It explores the role of non-human

entities in major social, political, and cultural events and ideas of "nature" in American cultural history.

HIST 33320 - Public History in the US (3)

An introduction to the history, theories, and practices of public history in the US. Study will include an overview of fields such as museum education, curatorship, and collections, historic preservation, libraries, and archives. Students will examine the history of these fields, understand how they have evolved in the US, and gain practical skills.

HIST 33323 - The World at War (3)

An advanced survey that focuses on the origins, conduct, and outcomes of war in world history. The course examines the significant wartime and postwar cultural, economic, political, and social consequences of conflict. The content of this course will vary when offered. It may be repeated up to six credit hours with the permission of the instructor for new topics.

HIST 33325 - Protest and Activism in American History (3)

Examines political, economic, social, and cultural forms of protest and activism in American history from the colonial period to the present. The historical content of this course will vary when offered. Repeatable for new experiences up to six credit hours.

HIST 33350 - American Military History (3)

A course in the military history of the United States and the relationships of society, politics, diplomacy and economics to the military. (S)

HIST 33360 - Women and Gender in U.S. History (3)

Examines the significant cultural, economic, and political developments that shaped the lives of women in the United States from early history to the present and highlights the shifting conceptions and experiences of gender and sexuality. (F, odd years)

HIST 33362 - The History of Missouri (3)

A brief survey of Spanish and French rule, followed by a study of the history and development of Missouri from the acquisition of the territory by the United States to the present day. Special emphasis is on its historical significance, important figures, government, constitution, current problems, and local history. (S, even years)

HIST 33365 - American Religious History (3)

A survey of the diversity of religion in the U.S. focusing on the ways in which American life (politics, economics, foreign policy, social reform) has been influenced by religious movements and ideas in the past, and the challenges offered today by religious pluralism.

HIST 33370 - History of the Near and Middle East (3)

A survey of the history of the Near and Middle East since the time of Mohammed. (S, odd years)

HIST 33375 - History of Latin America (3)

A brief survey of the history of Latin America designed for the general student, foreign language majors and business administration majors. (S, even years)

HIST 33380 - Humanitarian Crises of the Modern World (3)

This course examines both the history and evolution of genocide and the changes in humanitarian responses in the operating environment. This course will cover a broad range of subjects, including: the normative frameworks of humanitarian action - international humanitarian law, humanitarian principles, and codes of conduct; the impact of conflicts and the global war on terror on populations and humanitarian action; methodologies developed to improve the effectiveness and accountability of humanitarian action; the evolving structure of the international humanitarian system. (F, even years)

HIST 33386 - The Pacific Rim (3)

The course examines the history of East Asian development with emphasis on the nineteenth and twentieth centuries. Following an introduction to the origins of Chinese, Japanese, Korean and Southeast Asian cultures, the course assesses conflict along the Pacific Rim driven by historically rooted tensions and especially European influence. (S, odd years)

HIST 33388 - The History of the American Economy (3)

This course is an historical study of the foundations and development of the American economy. It examines the periods of American History from an economic perspective and considers the impact of

economic development on politics, society, and culture. (S, odd years)

HIST 33389 - Early Modern Europe: The West Meets the World (3)

An in-depth examination of the society, culture, and international expansion of Europe from the mid-16th to the mid-18th century, a bloody and often unstable era, but one in which art and science flourished and the world economy and modern political systems were created. (F, odd years)

HIST 33444 - Practicum in American Local History (3)

This course centers on the study, collection, and presentation of local and regional histories of the American Midwest. Students will be immersed in the study of local US history and the practice of public history work. Repeatable, up to 6 hours, for new material.

HIST 33480 - Methods in Secondary School Social Studies (3)

A course for prospective teachers in social studies stressing materials, methods, assessments, and techniques in teaching social studies in terms of the needs and problems of secondary education. This course must be taken before student teaching. Prerequisite: Admittance to Teacher Education. (F)

HIST 33490 - Advanced Studies in History (3)

The content of this course will vary when offered. Selected areas of history and historical problems will be given. May be repeated once with permission of advisor for new topics.

HIST 33491 - Historical Resources Internship (1 to 6)

On-site activity in libraries, museums, and historic sites and parks. Credit will vary according to the time spent and type of activity. Instructor's permission and prearrangement are required. Maximum credit to be earned is six semester hours. Repeatable for new experiences.

HIST 33499 - Independent Study in History (1 to 3)

Offered by special arrangement and petition approved by the student's advisor, the instructor involved and the department chairperson. Repeatable for new topic areas.

HIST 33503 - The Middle Ages (3)

A survey of the political and cultural history of Europe from the fall of the Roman Empire to the Renaissance. (S, even years)

HIST 33510 - History of Russia (3)

An advanced course dealing with the political, social, economic, and cultural history of Russia and the Soviet Union from the earliest times to present. (F, even years)

HIST 33511 - The Long Nineteenth Century (3)

An advanced course examining the political, social, economic, and cultural history of Europe from the French Revolution to the First World War.

HIST 33514 - The Violent Twentieth Century (3)

An advanced course examining the political, social, economic, and cultural history of Europe from the First World War to the present. (S, even years)

HIST 33521 - History of Modern Germany (3)

An advanced course dealing with the history of modern Germany.

HIST 33522 - The American Colonies (3)

Provides an in-depth look at colonial development in North America, with an emphasis on the English colonies, how and why they were founded, and how they grew and developed through the revolutionary period. Additional themes may include racial, gender, and religious relationships and conflict, imperial rivalries, and the slow emergence of a more unified colonial identity. (F, even years)

HIST 33524 - The Early American Republic (3)

This course examines how the American Revolution transformed thirteen colonies into an independent nation and how the Articles of Confederation and the Constitution laid the foundation for the new country. Emphasis is placed on the culture and society of the period and the era's tumultuous political and economic events. (F, odd years)

HIST 33525 - United States Since 1945 (3)

An advanced course which will look at the development of the contemporary United States through an examination of foreign

affairs as well as selected social movements within the country. (S, odd years)

HIST 33532 - History of the Atlantic World (3)

This course asks how history of the early modern period of contact, conquest, and colonization is different if we use an Atlantic lens to frame our questions and analysis. Students will engage with transnational histories that put Africa, Europe, and the Americas in conversation with one another as parts of the same larger historical systems. This course will emphasize the social, cultural, and economic transformation of the region.

HIST 33534 - The Civil War and Reconstruction (3)

An advanced course in American history which analyzes the conflicting theories and issues of the antebellum period, interprets the coming of the Civil War, the conduct of government, military operations and foreign relations during the war, and problems of the Reconstruction Period. (F, odd years)

HIST 33556 - The Gilded Age and Progressive Era (3)

An advanced course in the era of the United States between the Civil War and World War I, leading to new understandings of modern America. This course will investigate key issues of this era including industrialization, populism, progressivism, migration, race, gender, and identity. (S, even years)

HIST 33582 - The American West (3)

A study of America's territorial expansion from the colonial period to the close of the 19th century, including the impact on the nation's people, institutions, policies and ideas. Special emphasis will be devoted to the conflict between settlers and native people. (S, even years)

HIST 33591 - Research Seminar in History (3)

A capstone course for majors in History and Social Science Education in which students demonstrate mastery of historical theory and methods, including source interpretation and historical argumentation. The historical content of this course will vary when offered. Repeatable for new experiences up to six credit hours. Prerequisite: HIST 33301 or by permission of instructor. (F, S)

HPER - Health and Physical Education

HPER 22110 - Lifetime Wellness (2)

A course designed to develop an understanding of the principles necessary for promoting lifetime wellness, clarifying values, living effectively and improving the quality of life, through a study of critical issues which affect the individual and society, including: self concept and relationships, physical fitness, substance abuse and dependency behaviors, nutrition, prevention and control of disease, sexuality issues and consumer health. Must be taken concurrently with HPER 22111 Lifetime Wellness Laboratory. (F, S, SS)

HPER 22111 - Lifetime Wellness Laboratory (1)

A laboratory designed to conduct a wellness assessment and to provide students with practical strategies and skills for developing a personal program of fitness and lifetime sports activities. Must be taken concurrently with HPER 22110. (F, S, SS)

HPER 22114 - Wellness (3)

Wellness is a course designed to develop an understanding of the principles necessary for promoting and improving the quality of life through a study of critical issues which affect the individual and society. An overview of the following topics that encompass social, physical, intellectual, emotional and spiritual health is covered: health behaviors, physical fitness, substance abuse and dependency behaviors, nutrition and weight management, prevention and control of disease, sexuality issues, and consumer health. Through reading, writing and discussion an understanding develops of how individual fitness in the social, physical, intellectual, emotional and spiritual dimensions impacts overall health. Additionally, the assessment of cardiovascular fitness, muscular strength and endurance, flexibility, body composition, and exercise prescription in labs within this course are designed to conduct a wellness assessment and to provide students with practical strategies and skills for developing a personal program of fitness. (F, S)

HPER 22200 - Special Offering (1 to 4)

HPER 22207 - Aerobic and Strength Conditioning (3)

Development of advanced skills and methodology in working with cardiovascular aerobic conditioning. (S)

HPER 22208 - Techniques of Folk, Square, and Recreational Dance (3)

Development of skills and methodology for folk, square, and recreational dance. (F)

HPER 22210 - Special Topics in Physical Education Activity (1 to 3)

Designed for undergraduate special topic classes, new initiatives and developing courses in physical education that are activity based. Repeatable for new experience or further mastery.

HPER 22220 - Lifetime Activities and Dance (3)

Development of skills and methodology in working with cardiorespiratory and muscular strength conditioning. Aerobic exercise training, muscular strength training, muscular flexibility training, and designing and leading exercise training is experientially covered. The concepts of training intensity, frequency, volume and mode are introduced through practical and research experience.

HPER 22223 - Introduction in Health Science and Wellness Professions (2)

This course is an introductory course designed to provide the students with the expectations needed for a career in health sciences and wellness by exploring various career pathways. This course includes a description of various career practices, the educational requirements, and expectations needed to complete careers in the Health Sciences and Wellness field.

HPER 22226 - Advanced Weight Training (1)

Advanced development of skills. (F, S)

HPER 22233 - First Aid, CPR, and Care of Sports Injuries (3)

Theory and practice of first aid and CPR. Development of skills in the prevention and care of injuries associated with sports and activity. (F, S)

HPER 22238 - Health and Physical Education Methods in the Elementary School (3)

Methods and activities in health and physical education in the elementary school. (F, S, SS)

HPER 22239 - Foundations of Physical Education (3)

An introductory professional course which covers the scope, purpose, history, growth

and development, and career assessment of physical education. (F, S)

HPER 22254 - Anatomy and Physiology (3)

The structure and function of the skeletal, muscular, and circulatory systems. (F, S)

HPER 22260 - Observation and Practicum I in Physical Education (2)

Observation and participation in elementary, middle, and secondary schools with both non-instructional and limited instructional responsibilities. Twenty-four hours of field experience required. (F, S)

HPER 22272 - Introduction to Safety Education-Driver Education I (3)

Introductory course examining the principles and fundamentals of safety education. Concern for safety as a social problem, considers major accident areas, accident causes, liability and analysis of possible solutions to the accident problem. Develops concepts to prepare the driver education student to assume responsibility for accident prevention in the home, school, community and on the highway.

HPER 22276 - Lifeguard Training (2)

Designed to provide the only certification to qualify a student for lifeguarding at pool and non-surf facilities. Successful completion of this course provides the student the ARC Lifeguard Training Certification. To complete the certification the student must submit evidence of current certification in adult CPR and standard first aid. Repeatable for new experience or further mastery. (S)

HPER 22281 - Officiating Soccer (1)
(S)

HPER 22282 - Officiating Baseball and Softball (1)
(S)

HPER 22283 - Officiating Track and Field (1)
(S)

HPER 22284 - Officiating Basketball (1)
(S)

HPER 22285 - Officiating Football (1)
(F)

HPER 22286 - Officiating Volleyball (1)
(F)

HPER 22287 - Officiating Wrestling (1)
(F)

HPER 22331 - Introduction to Officiating (3)

An introduction to officiating, including officiating objectives, communication skills, decision-making skills, conflict management, legal rights and responsibilities, business aspects of officiating, and career development. Sport-specific rules and mechanics of officiating will also be explored.

HPER 22332 - Physiology of Exercise (3)

A study of the immediate and long-range effects of physical activity on the muscular, respiratory, circulatory, nervous, and metabolic systems. Laboratories are included. Prerequisites: HPER 22254 or BIOL 04236. Physical Education majors must complete HPER 22254 with a minimum grade of C to meet advanced standing requirements. (F, S)

HPER 22334 - Theory and Administration of Coaching (3)

Students in this course will be provided with learning opportunities focusing on theory, philosophy, and administrative considerations for coaching and administration of athletic programs. Students are required to complete a 30-hour practicum experience in an athletic setting. (F)

HPER 22335 - Sport and Exercise Nutrition Topics (3)

A course designed to provide emphasis on the bioenergetics and nutrition for human performance and health. The role that diet and nutrition play and how they impact health diseases will be addressed. Ergogenic aids will also be addressed.

HPER 22336 - Basic Biomechanics (3)

The study of the principles of human movement: structural and mechanical. Prerequisite: HPER 22254. (F, SS)

HPER 22360 - Mid-Level Field Experience in Physical Education (2)

Intermediate level practicum for K-12 schools requiring 24 hours of observation and field experience. Prerequisites: HPER 22260 or EDUC 61260 or EDCI 62211.

HPER 22361 - Creative Rhythms and Activities 5-9 (2)

The study and understanding of movement concepts as they relate to space, time, and energy through dance and gymnastics for the 5-9 learner. (S)

HPER 22362 - Creative Movement & Rhythms (3)

The study and understanding of movement concepts as they relate to space, time, and energy through dance and gymnastics for the K-4 learner. (F, S)

HPER 22382 - Care and Prevention of Athletic Injuries (3)

Covers primary cause of injuries, analysis of preventive measures, and care of injuries in relation to type of tissue involved. (F, S)

HPER 22400 - Special Offering (1 to 4)

HPER 22410 - Adapted Physical Education (3)

Survey of human physical disabilities combined with adaptive and rehabilitative measures to promote better living for the individual. (F, S, SS)

HPER 22430 - Lifetime Team Activities (3)

An introduction to basic skills and teaching techniques of lifetime team activities. (F, S)

HPER 22431 - Lifetime Individual Activities (3)

An introduction to basic skills and teaching techniques in lifetime individual activities. (F, S)

HPER 22433 - Senior Seminar in Physical Education (2)

A capstone course designed to acquaint the student with current issues and trends in Health and Human Services (HHS) and to apply principles of philosophy to HHS. Prerequisites: Admission to Teacher Education. (F, S)

HPER 22435 - Lifetime Team and Individual Sports Instruction (3)

An analysis of basic skills and teaching techniques in lifetime individual and team sports.

HPER 22437 - Practicum: Physical Education in the Elementary School (1 to 2)

Practical experience in the elementary school physical education program. Prerequisites: Admission to Teacher Education. (F, S)

HPER 22439 - Independent Study in Physical Education (1 to 2)

Individual study, under faculty supervision, of a selected area of interest. May be repeated for a total of three hours for new experience or further mastery. Prerequisite: Permission of advisor and instructor. (F, S, SS)

HPER 22445 - Literacy and Applications in Physical Education (3)

A review and analysis of literacy applications in reading deficits and assisting students in the development of reading and writing in physical education, physical activity, and human movement settings.

HPER 22447 - Senior Seminar in Health Science and Wellness (1)

A capstone course designed to acquaint the student with current issues and trends in Applied Health Science and to apply principles of philosophy to AHS. Prerequisites: HPER 22254 OR BIOL 04236, HPER 22332, and HPER 22336. (F, S)

HPER 22459 - Independent Study in Health Education (1 to 2)

Individual study under faculty supervision of a selected area of interest. May be repeated for a total of three hours for new experience. Prerequisite: Permission of advisor and instructor. (F, S, SS)

HPER 22470 - Profession Based Experience in Applied Health Science (3 to 6)

A gradual induction to the professional setting is provided through a progression of opportunities. The experience should include a supervised practical experience over a semester period. The experience will be directed and supervised by a health science professional and a designated University supervisor. Settings for experiences include opportunities within the health science field such as cardiac rehabilitation facilities, private and not-for-profit wellness and fitness centers, municipal health agencies, senior centers, long term care facilities, athlete training centers, and other health science related organizations. Repeatable for additional experience, new material, and progression of study. Prerequisite: Permission of instructor. (F, S, SS)

HPER 22479 - Independent Study in Safety Education (1 to 2)

Individual study, under faculty supervision, of a selected area of interest. May be repeated for a total of three hours. Prerequisite: Permission of instructor. (F, S, SS)

HPER 22480 - Health Education Methods in the Secondary School (3)

Organizing health instruction, development and appraisal of materials, use of instructional and assessment strategies for the 9-12 learner. Prerequisites: Admission to Teacher Education. (F, SS)

HPER 22481 - Theory and Fundamentals of Coaching Soccer (2)

(F)

HPER 22482 - Theory and Fundamentals of Coaching Baseball (2)

(S)

HPER 22483 - Theory and Fundamentals of Coaching Track and Field (2)

(S)

HPER 22484 - Theory and Fundamentals of Coaching Basketball (2)

(F)

HPER 22485 - Theory and Fundamentals of Coaching Football (2)

(F)

HPER 22486 - Theory and Fundamentals of Coaching Volleyball (2)

(S)

HPER 22500 - Special Offering (1 to 4)**HPER 22510 - Special Topics (1 to 3)**

Designed for special workshops. Repeatable for new experience and further mastery. (F, S, SS)

HPER 22512 - Socio-Psychological Aspects of Human Performance (3)

Analysis of sociological and psychological aspects which influence human performance. Prerequisites: Upper-division standing or permission of instructor. (F, S)

HPER 22515 - Issues in Sport (3)

An analysis of contemporary trends and issues in sport.

HPER 22520 - Classroom Management and Motivation in Physical Education (3)

This course presents appropriate use of current techniques used to motivate and manage student behavior. Emphasis is placed on the physical education setting. Suggested for Outreach graduate program; see advisor before enrolling. (SS)

HPER 22523 - Motor Development (3)

This course is designed to focus on normal and abnormal motor development of school-age individuals. Emphasis is placed on the study of the interaction between environmental and biological factors which affect changes in motor performance, motor development assessment techniques, and designing and implementing an individualized program for a school-age student. (F, S, SS)

HPER 22529 - Theory and Fundamentals of Strength and Conditioning/Personal Training (3)

Provides the basic skills, program design, and teaching techniques for strength training and personal conditioning. (S)

HPER 22532 - Exercise Testing, Prescription, and Analysis of Cardiac Function (3)

Designed to provide special emphasis to testing individuals with several exercise protocols and modes. Emphasis will be placed upon cardiovascular functions at rest, during exercise and recovery. The format is practical and laboratory based in nature. Prerequisite: HPER 22254 and HPER 22332 with a grade of B or better. (S)

HPER 22534 - Evidence Based Practice in Health Science and Wellness (3)

Students will take part in practical exercises designed to develop competency in the use of evidence based practice. EBP processes for identifying and critiquing existing evidence will be explored. Integration of existing evidence with clinical judgment, patient preferences, inter-professional perspectives and other resources form the basis for the clinical decision-making process will also be covered. Prerequisites: HPER 22254 or BIOL 04236, and HPER 22332, HPER 22336. (F, SS)

HPER 22536 - Mechanical Analysis of Sports Skills (3)

Designed to improve the student's ability to teach physical education or coach by

analyzing a variety of activities in terms of the fundamental principles of mechanics. Prerequisites: HPER 22254, HPER 22336. (SS)

HPER 22537 - Assessment in Physical Education (3)

A study of the evaluation procedures in physical education, the administration of such procedures, and the interpretation of the results by fundamental statistical methods. (F, S)

HPER 22541 - Human Pathophysiology (3)

This course explores the physiological processes and mechanisms that characterize the pathology of diseases associated with lifestyle choices and behaviors. Prerequisites: HPER 22254 OR BIOL 04236. (F)

HPER 22550 - Community Health (3)

Historical, physical, biological, and socio-cultural factors that influence the magnitude and character of health problems, goals, and solutions. (F, S)

HPER 22552 - Health Promotion (3)

The study of the organization and implementation of a comprehensive health promotion program. Practical applied experiences are included. (F)

HPER 22554 - Human Sexuality (3)

A study of the historical, biological, psychological, and socio-cultural aspects of sexuality in relation to modern life. (F)

HPER 22555 - Intervention and Strategies for Health Behavior Change (3)

An applied approach of behavior change. Models to investigate health behavior modification. (S, SS)

HPER 22556 - Health in the Later Years (3)

This course considers aging from three perspectives: physical aspect of an aging body, health care of the elderly, and current health issues for aging Americans. The course begins by investigating theories of aging, changes in the body with age, mental health and wellness, chronic health conditions, and prevention and health promotion. It concludes with lessons addressing the upcoming Age Wave and what it means for health care services and providers. (F)

HPER 22580 - Methods in Secondary Physical Education (3)

A survey of teaching styles and pedagogy. Special emphasis is given to daily teaching methodology with practical experiences. The relationship of methods of teaching to curriculum is also covered. (Must be taken prior to directed teaching.) Prerequisites: HPER 22239, HPER 22332, HPER 22430 and HPER 22431 or equivalent, and Admittance to Teacher Education. (F, S)

Activity Courses

Only 4 activity credits may count toward the minimum hours required for graduation.

HPER 22101 - Restricted Activity (1)

Repeatable for mastery. (F, S)

HPER 22106 - Weight Training and Conditioning (1)

(F, S)

HPER 22107 - Racquetball (1)

(F, S, SS)

HPER 22112 - Jogging (1)

(F, S)

HPER 22113 - Individualized Fitness Program (1)

Repeatable for new content and/or mastery. (F, S, SS)

HPER 22116 - Casting and Angling (1)

(F)

HPER 22121 - Volleyball (1)

(F, S)

HPER 22131 - Beginning Tennis (1)

(F, S, SS)

HPER 22134 - Badminton (1)

(F, S)

HPER 22139 - Golf (1)

(F, S, SS)

HPER 22160 - Group Exercise (1)

(F, S)

HPER 22170 - Beginning Swimming (1)

(F)

Varsity Athletics

The following courses may each be repeated for 4 total credit hours per course for further mastery.

HPER 22180 - Varsity Cross Country (1)
(F)

HPER 22181 - Varsity Tennis (1)
(S)

HPER 22182 - Varsity Baseball (1)
(S)

HPER 22183 - Varsity Track and Field (1)
(S)

HPER 22184 - Varsity Basketball (1)
(F)

HPER 22185 - Varsity Football (1)
(F)

HPER 22186 - Varsity Volleyball (1)
(F)

HPER 22190 - Varsity Softball (1)
(S)

HPER 22197 - Varsity Soccer (1)

HPER 22198 - Varsity Golf (1)

HUM - Humanities

HUM 26102 - Western Civilization I: The Ancient World to 1500 (3)

An introduction to the development of Western Culture from the Ancient World through the Renaissance. (F, S, SS) (MOTR WCIV 101)

HUM 26103 - Western Civilization II: 1500 to the Present (3)

An introduction to the development of Western Culture from 1500 to the present. (F, S, SS) (MOTR WCIV 102)

HUM 26104 - The Eastern World (3)

An introductory survey covering the literary, artistic, philosophical, and religious traditions of selected Eastern cultures with special emphasis on China and Japan. (S, odd years)

HUM 26162 - Comparative Religions (3)

An introduction to and a comparative analysis of selected religious traditions. (F) (MOTR RELG 100)

HUM 26202 - Patterns in World Societies to 1500 (3)

A survey of the development and character of societies and cultures around the world to 1500. (F, S, SS odd years.)

HUM 26203 - Patterns in World Societies Since 1500 (3)

A survey of the development and character of societies and cultures around the world since 1500. (F, S, SS odd years.)

HUM 26380 - Special Topics in Humanities (3)

A survey course in the humanities with topics to be selected by the instructor. May be taken more than once with approval of advisor for new topics.

HUM 26401 - Senior Seminar in Interdisciplinary Studies (1)

An intensive study of an issue in one or more of the Interdisciplinary Studies Emphasis Areas. The topic is chosen by the student, in consultation with a faculty advisor, concluding with a research paper or project. (F, S)

HUM 26409 - Independent Study in the Humanities (1 to 3)

Investigation of special problems in any area of study offered (humanities, classics, or religion). Consent of instructor necessary. Repeatable for new topics.

HUM 26450 - General Studies Internship (1 to 6)

A significant experiential learning opportunity, typically with a company, non-profit, governmental, or community-based organization, that enables students to develop their professional skills. Credit will vary depending upon internship hours worked. One hour of credit requires 45 hours of work time. Prerequisite: instructor approval. May be repeated for up to a total of 6 hours. (F, S, SS)

INCO - Inter-College

INCO 77101 - University Seminar (1)

University Seminar is designed to help students transition to college life and achieve success. Topics of exploration will include the privileges, rights, and responsibilities associated with a university education, skills necessary for success, assuming responsibility for one's own university experience, and available resources.

INCO 77150 - Academic Success Coaching (1)

Academic Success Coaching is comprised of weekly, intrusive, individualized meetings with Academic Success Coaching personnel. Level of support will be determined by program metrics including GPA, classification, student status, institutional assessment, and current course schedule. The course is required for students participating in the Assist Program, enrolled in INCO 77151 Strategies for Academic Success, or by recommendation of the academic advisor. Course can be repeated as needed, but only counts once toward the 120 hours required for the degree. (F, S, SS)

INCO 77151 - Strategies for Academic Success (1)

An academic skills course for students designed to improve their academic standing. Students will utilize various skills and strategies covered in this course to foster success in the context of their current semester coursework. Students must also co-enroll in INCO 77150 Academic Success Coaching. Course can be repeated as needed, but only counts once toward the 120 hours required for the degree. (F, S, SS)

INCO 77200 - Profession-Based Essential Skills (1)

A profession-based skills development course that prepares students for a profession-based work experience, internship, or practicum. Topics to be covered include National Association of Colleges and Employers (NACE) skills/qualities such as communication skills (verbal and written), teamwork, leadership, problem solving, and initiative. Students will have the opportunity to gain profession-based essential skills through exercises, case studies, and seminar discussion.

INCO 77217 - Profession-Based Essentials (1)

A profession-based skills development course that prepares students for a profession-based work experience, internship, or practicum. Topics to be covered include National Association of Colleges and Employers (NACE) skills/qualities such as communication skills (verbal and written), teamwork, leadership, problem solving, and initiative. Students will have the opportunity to gain profession-based essential skills through exercises, case studies, and seminar discussion.

INCO 77297 - Profession-Based Work Experience (1 to 3)

A profession-based work experience that enables students to work within a business context, clarify their career goals, and develop their professional skills under the supervision, guidance, and mentoring of an industry professional. Credit will vary depending upon time spent. One hour of credit requires 50 hours of work time. Prerequisite: approval of the instructor. May be repeated for up to a total of 6 hours. (F, S, SS)

INCO 77301 - Honors Study Abroad (1 to 3)

An inter-disciplinary study abroad experience specifically designed for Honors students. Solutions to complex human challenges come from collaborative work and integrative approaches, and this course will bring together students to investigate and explore complex issues. The number of hours will be determined with the student's advisor and the Honors Program director. This course is repeatable for new experience.

INST - International Study**INST 80299 - International Study-Study Abroad (Country) (3 to 15)**

Students studying abroad in a Northwest program enroll in this course for the period of their stay. This maintains the student's enrollment during the period of study abroad program and upon return facilitates the translation of coursework taken abroad into Northwest credit.

LANG - Languages**LANG 14100 - Special Offering (1 to 3)****LANG 14200 - Special Offering (1 to 4)**

Courses which are offered on only one occasion or variable issue-oriented courses which have the content described in the title. Credit and prerequisites as announced. Repeatable with topics changing.

LANG 14300 - Special Offering (1 to 3)**LANG 14400 - Special Offering (1 to 4)**

Courses which are offered on only one occasion or variable issue-oriented courses which have the content described in the title. Credit and prerequisites as announced. Repeatable with topics changing.

LANG 14401 - Special Topics (1 to 3)

Provides concentrated study in special areas within languages. Topics vary semester to semester. Prerequisites as announced. Repeatable with topics changing. (SS)

LANG 14460 - Advanced Studies in Modern Languages (3)

Study of special topics chosen by the instructor. Subject matter may vary. Students may repeat the course once for credit with different topics. Intended for students who have completed the major core in a foreign language. Prerequisite: Advanced standing.

LANG 14470 - Internship in Languages (1 to 3)

Allows students to gain practical experience by participating in on-site work and various types of predominantly non-English speaking organizations. Prerequisites: LANG 14243 and LANG 14244 or equivalent and permission of instructor. (F, S, SS)

LANG 14480 - Methods of Teaching a Modern Language (3)

Study and practice in techniques for effective teaching of foreign languages. Includes study of theories, methodologies, assessments, and current trends in teaching foreign languages in schools. Prerequisite: Admittance to Teacher Education. (F)

LANG 14485 - Senior Seminar for Modern Language Majors (1)

Intended for seniors who have finished the major or who are taking the last course of their major. Each student will prepare a paper or portfolio in an area of the language field related to his or her future employment or lifetime interests, which will be presented to other majors for discussion and exchange of ideas. Prerequisite: Must meet the current departmental cut score(s) on the current standardized general education test(s) (contact the department office for specific information), have the permission of the department chairperson and have successfully completed at least one 400-level course. (F, S)

LANG 14500 - Special Offering (1 to 4)

Courses which are offered on only one occasion or variable issue-oriented courses which have the content described in the title. Credit and prerequisites as announced. Repeatable with topics changing.

French

LANG 14131 - French: Communication and Culture I (3)

Initiates awareness of Francophone cultures along with the ability to understand simple conversation in French and to communicate basic needs and describe activities. Intended for students with no previous study of French. (F) (MOTR LANG 101)

LANG 14132 - French: Communication and Culture II (3)

Develops comprehension and communication skills, including the ability to discuss opinions and past events, and introduces students to French life and culture. Prerequisite: LANG 14131 or equivalent in high school French. (S) (MOTR LANG 102)

LANG 14232 - Intermediate French for Communication and Culture I (3)

Intermediate level course focusing on the language and culture of France and the Francophone world. Further development of contemporary conversational vocabulary in French along with activities designed for practical applications. Readings broaden the student's vocabulary and syntax usage. Prerequisite: LANG 14132 or equivalent. (F)

LANG 14233 - Intermediate French for Communication and Culture II (3)

Intermediate level course focusing on the language and culture of France and the Francophone world. Further development of contemporary conversational vocabulary in French, along with activities designed for practical applications. Readings broaden the student's vocabulary and syntax usage. Prerequisite: LANG 14232 or equivalent. (S)

LANG 14439 - Independent Study in French (1 to 2)

Offered by special arrangement and petition approved by the modern language faculty. May be repeated for a maximum of six semester hours with topics changing. (F, S)

Russian

LANG 14161 - Russian: Communication and Culture I (3)

Initiates awareness of Russian cultures along with the ability to understand simple conversation in Russian and to communicate basic needs and activities. Intended for

students with no previous study of Russian.
(F, alt years)

LANG 14162 - Russian: Communication and Culture II (3)

Develops comprehension and communication skills, including the ability to discuss opinions and past events, and introduces students to Russian life and culture. Prerequisite: LANG 14161 or equivalent. (S, alt years)

LANG 14261 - Intermediate Russian for Communication and Culture I (3)

Broadens and strengthens the student's knowledge of Russian through reading, composition and conversation, and also expands knowledge of the structure of the Russian language. Prerequisite: LANG 14162 or equivalent. (F, alt years)

Spanish

LANG 14141 - Spanish: Communication and Culture I (3)

Initiates awareness of Hispanic cultures along with the ability to understand simple conversation in Spanish and to communicate basic needs and activities. Intended for students with no previous study of Spanish. Does not count towards major or minor in Spanish. (F, S, SS) (MOTR LANG 103)

LANG 14142 - Spanish: Communication and Culture II (3)

Develops comprehension and communication skills, including the ability to discuss opinions and past events, and introduces students to various countries in Spanish America. Does not count towards major or minor in Spanish. Prerequisite: LANG 14141 or equivalent in high school Spanish. (F, S) (MOTR LANG 104)

LANG 14242 - Intermediate Spanish for Communication and Culture I (3)

Broadens and strengthens the student's knowledge of Spanish through reading, composition and conversation, and also expands knowledge of the structure of the Spanish language. Prerequisite: LANG 14142 or equivalent. (F, S)

LANG 14243 - Intermediate Spanish for Communication and Culture II (3)

Broadens and strengthens the student's knowledge of Spanish through reading, composition and conversation, and also expands knowledge of the structure of the

Spanish language. Prerequisite: LANG 14242 or equivalent. (F, S)

LANG 14344 - Advanced Conversation in Spanish (3)

This course provides an intensive advanced practice in speaking Spanish in order to increase students' fluency and self-confidence. Students will learn the appropriate uses of Spanish street idioms, as well as a wide range of topics of conversation, from the superficial discussion to the most profound philosophical or scientific themes. The topics are actual issues that have an impact on our daily lives. Prerequisite: LANG 14243 and LANG 14244 or equivalent. (S)

LANG 14345 - Advanced Spanish Composition (3)

Practice in correct idiomatic and effective oral and written communication including descriptive, narrative, informative, and argumentative essays. (S)

LANG 14347 - Study Abroad for Spanish or French (1 to 4)

Designed for coursework taught in Spanish or French, taken outside of the U.S. Prerequisite: LANG 14243 AND LANG 14244 (Spanish) or equivalent; LANG 14233 (French) or equivalent. Repeatable for new experience. (SS)

LANG 14348 - Spanish History and Culture (3)

The history and culture of Spain as a background to national identity. Course is taught in Spanish. Prerequisite: LANG 14243. (F)

LANG 14403 - Special Topics in Latin American Cinema (3)

This course may focus on any period or aspect of the film culture in the Spanish-speaking world. The class may focus in a particular director (The world of Pedro Almodóvar, Luis Buñuel: Redefining National Cinema); a group of directors (New Latin American directors, La movida); films from a specific period (Spanish Film after Franco, Films during the Franco Regime, Films in the Spanish-speaking world in the 21st Century); films from a specific genre or place (Latin American Cinema: 6 countries in 12 movies, Horror movies in Spanish,); movies with a specific theme (Latin American movies and politics, The LGBT Community and Films, Literary works adapted to the screen, Films

and Fútbol). Students may repeat the course with a change in topic.

LANG 14420 - Studies in Spanish-English Translation (3)

This course explores practices, techniques, topics, and evaluation of both Spanish-to-English and English-to-Spanish translation. Students will translate a wide variety of texts from areas such as literature, law, science, journalism, advertising, and health, among others. Prerequisite: LANG 14243.

LANG 14446 - Practicum in Spanish (1 to 3)

An experience which will offer students the opportunity to gain practical experience in the field by working in a setting closely related to their chosen career field, preferably in a foreign country. May be used for elementary Spanish teaching practicum as a supervised teaching experience. Repeatable for further mastery. (F, S)

LANG 14447 - Latin American Civilization I (3)

This course will examine a wide range of issues relating to Latin America culture and history from the great ancient civilizations to the Spanish conquest and colony, and Independence. Students will read a variety of texts that address various social, cultural, economical, and historical issues confronting Latin America during that period. Prerequisite: LANG 14243.

LANG 14448 - Survey of Spanish Language Literature (3)

This course offers a general overview of major literary works and movements in both Spain and Latin America from the outset of the Colonial period to the present. It includes a discussion of the important historical, cultural, social, and ideological issues that underlie each movement. The genres to be studied include poetry, short story, drama, and essay. Prerequisite: LANG 14243 or equivalent. (F, alt. years)

LANG 14449 - Independent Study in Spanish (1 to 2)

Offered by special arrangement and petition approved by the foreign language faculty. May be repeated for a maximum of six semester hours with topics changing. (F, S)

LANG 14457 - Latin American Civilization II (3)

This course examines a wide range of modern and contemporary issues relating to

Latin American culture, with emphasis on the various Latin American independence movements and subsequent historical developments. Students will read a variety of texts that address the influence of the Spanish-speaking world on the U.S. in the 21st century as well as the various critical social and cultural issues confronting Latin America. Prerequisite: LANG 14243.

LANG 14493 - Latin American Literature (3)

The survey in Latin American Literature is designed to give students a wide scope of writings that have shaped Latin America's social, cultural and literary history. This course begins with texts by the indigenous cultures of pre-colonial times, and moves through the Colonial Literature, the literature from the independence movements, modernismo, vanguardias, el Boom, to finish with contemporary literature. The class touches on important issues like the power of language, relationship between social movements and literature, the colonial and post-colonial experience, globalization, nationality, Latin American identity, race, etc.

LANG 14541 - Independent Study in Spanish (1 to 4)

Provides individualized, in-depth study in the area of Spanish. Study will be conducted in Spanish and will be designed to meet the needs of the student(s). May be repeated. Credit and prerequisites as announced.

Study Abroad

LANG 14191 - Modern Language Communication and Culture I (1 to 4)

Designed for credit in the study of a language other than English, French, or Spanish. Initiates awareness of non-English speaking cultures along with the ability to understand simple conversation and to communicate basic needs and describe activities. Intended for students with no previous study of the language. Does not count toward a modern language major or minor. Course may be repeated for further mastery.

LANG 14192 - Modern Language Communication and Culture II (1 to 4)

Designed for credit in the study of a language other than English, French, or Spanish. Develops comprehension and communication skills, including the ability to discuss opinions and past events and introduces students to non-English speaking life and culture. Does not count toward a

modern language major or minor. Course may be repeated for further mastery.

LANG 14290 - Intermediate Communication and Cultures in Modern Language I (1 to 4)

Designed for credit in the study of a language other than English, French, or Spanish. Intermediate level, credited experiences from other higher education institutions may be equated to this course number. Does not count toward a modern language major or minor. Course may be repeated for further mastery.

LANG 14390 - Advanced Communication and Cultures in Modern Languages (1 to 4)

Designed primarily for credit in the study of a language other than English, French, or Spanish. Advanced level, credited experiences from other higher education institutions may be equated to this course number. Credit under this course number may be used as advanced electives in a modern language major or minor. Course may be repeated for further mastery.

LANG 14490 - Advanced Studies in Culture and History in Modern Languages (1 to 4)

Designed primarily for credit in the study of a language other than English, French, or Spanish. Advanced level, credited experiences focusing on culture and/or history from other higher education institutions may be equated to this course number. Credit under this course number may be used as advanced electives in a modern language major or minor. Course may be repeated for further mastery.

LANG 14491 - Advanced Technical Topics in Modern Languages (1 to 4)

Designed primarily for credit in the study of a language other than English, French, or Spanish. Advanced level, credited experiences focusing on topics requiring technical vocabulary from other higher education institutions may be equated to this course number. Credit under this course number may be used as advanced electives in a modern language major or minor. Course may be repeated for further mastery.

LANG 14492 - Advanced Literary Topics in Modern Languages (1 to 4)

Designed primarily for credit in the study of a language other than English, French, or Spanish. Advanced level, credited experiences focusing on literary topics from

other higher education institutions may be equated to this course number. Credit under this course number may be used as advanced electives in a modern language major or minor. Course may be repeated for further mastery.

LANG 14582 - International Heroes: France, Spain, and England (3)

Literary selections in French, Spanish, and English will trace the development of the histories and legends of Sir Lancelot, Roland, and El Cid in and out of their home countries, from the 12th through the 17th centuries. French and Spanish majors will read the appropriate selections in their original languages; other readings will be in English. Non-language majors will read in English translations. For graduate or undergraduate credit. Graduate credit will require an additional research paper. Prerequisite: LANG 14448 or LANG 14400 level literature course in appropriate language.

MATH - Mathematics and Statistics

MATH 17014 - Strategies for General Statistics (1)

A basic developmental course aligned specifically with MATH 17114 General Statistics to build competencies in the mathematics required for success in MATH 17114. The course does not satisfy The Northwest Core requirements in mathematics or any graduation requirement. Required for students enrolled in MATH 17114 with an ACT Math score below 22 AND a high school cumulative GPA below 3.0. Corequisite: MATH 17114. (F, S)

MATH 17015 - Strategies for Concepts of Mathematics (1)

A basic developmental course aligned specifically with MATH 17115 Concepts of Mathematics to build competencies in the mathematics required for success in MATH 17115. The course does not satisfy The Northwest Core requirement in mathematics or any graduation requirement. Required for students enrolled in MATH 17115 with an ACT Math score below 22 AND a high school cumulative GPA below 3.0. Corequisite: MATH 17115. (F, S)

MATH 17016 - Strategies for Mathematical Modeling (2)

A basic developmental course aligned specifically with MATH 17116 Mathematical

Modeling to build competencies in the mathematics required for success in MATH 17116. The course does not satisfy The Northwest Core requirement in mathematics or any graduation requirement. Required for students enrolled in MATH 17116 with an ACT Math score below 22 AND a high school cumulative GPA below 3.0. Corequisite: MATH 17116. (F, S)

MATH 17018 - Strategies for Precalculus Algebra (2)

A basic developmental course aligned specifically with MATH 17118 Precalculus Algebra to build competencies in the mathematics required for success in MATH 17118. The course does not satisfy The Northwest Core requirement in mathematics or any graduation requirement. Required for students enrolled in MATH 17118 with an ACT Math score below 22 AND do not have a score of PASS on the NW Algebra Review. Corequisite: MATH 17118. (F, S)

MATH 17071 - Strategies for Fundamentals of Mathematics (2)

A basic developmental course aligned specifically with MATH 17171 Fundamentals of Mathematics to build competencies in the mathematics required for success in MATH 17171. The course does not satisfy The Northwest Core requirement in mathematics or any graduation requirement. Required for students enrolled in MATH 17171 with an ACT Math score below 22 AND a high school cumulative GPA below 3.0. Corequisite: MATH 17171. (F, S)

MATH 17114 - General Statistics (3)

Basic concepts of decision making, central values, variability, probability and statistical inference, elementary concepts of correlation, parametric tests of significance, and regression analysis. Will satisfy The Northwest Core requirement in mathematics. Proficiency examination is available. Prerequisite: An ACT Math score of 22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or concurrent enrollment in MATH 17014. (F, S, SS) (MOTR MATH 110)

MATH 17115 - Concepts of Mathematics (3)

An explanation of ways in which mathematics is used to understand the contemporary world. Will satisfy The Northwest Core requirement in mathematics. A proficiency examination is available. Prerequisite: An ACT Math score of

22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or concurrent enrollment in MATH 17015. (F, S) (MOTR MATH 120)

MATH 17116 - Mathematical Modeling (3)

A course for helping students apply functions to model practical situations. Students will apply concepts of algebra to problem solving while relying more heavily on technology when using nonlinear situations. Will satisfy The Northwest Core requirement in mathematics. Proficiency examination is available. (F, S) (MOTR MATH 120)

MATH 17117 - Precalculus (5)

A course to prepare students to take calculus. Topics include functions and graphs, equations and inequalities, and analytic geometry and trigonometry. Will satisfy the Northwest Core requirement in mathematics. Prerequisite: A minimum ACT Math score of 22, or a minimum high school GPA of 3.5. (F, S) (MOTR MATH 150)

MATH 17118 - Precalculus Algebra (3)

A course intended to prepare students for fields of study that would require a high level of algebraic reasoning for Calculus. Topics include the foundational principles of functions, the analysis of functions, and algebraic reasoning. Will satisfy The Northwest Core requirement in mathematics. Proficiency examination is available. Prerequisite: An ACT Math score of 22 or higher, or a score of PASS on the NW Algebra Review, or a minimum grade of C in MATH 17082, or concurrent enrollment in MATH 17018. (F, S) (MOTR MATH 130)

MATH 17119 - Trigonometry (2)

Trigonometric functions and analytic trigonometry. Proficiency examination is available. Prerequisite: A minimum ACT Math score of 22, or a minimum high school GPA of 3.00, or a minimum grade of C in MATH 17082. (F, S)

MATH 17120 - Calculus I (4)

An introduction to single-variable calculus. Topics include intuitive treatment of limits and continuity, differentiation of elementary functions, curve sketching, extreme values, areas, rates of change, definite integral and fundamental theorem of calculus. Will satisfy The Northwest Core requirement in mathematics. Proficiency examination is available. Prerequisites: MATH 17117 with a minimum grade of C, or MATH 17118 and MATH 17119 with a minimum grade of C in both, or equivalent. ACT Math score of at

least 27, or a high school GPA of 3.9 is recommended. (F, S)

MATH 17121 - Calculus II (5)

Topics include further applications and integration techniques, an introduction to multivariate topics, and sequences and series. Prerequisite: A minimum grade of C in MATH 17120 or consent of instructor. (F, S)

MATH 17125 - Special Topics (1 to 4)

Topics will vary but the rigor level will be appropriate for beginning undergraduate students. Prerequisites: An ACT math score of at least 22 or a high school GPA of at least 3.0 or MATH 17082.

MATH 17145 - Computational Reasoning and Data (3)

An introduction to the basic techniques of computational mathematics using programming and discipline specific software. The material is presented from a problem-solving perspective with examples from the applied sciences. Topics to be covered include matrix computations, data fitting techniques, data analysis, graphics, and statistics. Prerequisite: An ACT Math score of 22 or higher, or high school GPA of 3.00 or higher. (F)

MATH 17171 - Fundamentals of Mathematics (3)

An analytic exploration of elementary mathematics concepts, including set theory, operations in numeration systems and bases, number theory, operations and applications with rational and real numbers, probability and statistics, logic, relations and modular arithmetic. Will satisfy The Northwest Core requirement in mathematics. Proficiency examination is available. Prerequisite: An ACT Math score of 22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or concurrent enrollment in MATH 17071. (F, S)

MATH 17197 - Exploring Mathematics-Related Fields (1)

A course introducing students to what it means to be a mathematics major by experiencing some of the work mathematicians do and the types of careers and opportunities open to mathematics majors beyond teaching. Prerequisites: A minimum grade of C in one of the following: MATH 17117 or MATH 17118 or MATH 17120 or MATH 17171. (S)

MATH 17226 - Math in the Elementary Classroom (2)

In this course, candidates will learn strategies and skills for teaching, assessment, and evaluation necessary for instruction of mathematics in the elementary school. Emphasis will be given to the integration of mathematics with content literacy, science, art, music, and physical education. Corequisites: EDCI 62426 and SCED 28225. Prerequisite: MATH 17171 with a grade of C or better. (F, S)

MATH 17227 - Math in the Elementary School (2)

In this course, candidates will learn strategies and skills for teaching, assessment, and evaluation necessary for the instruction of mathematics in the elementary school. Techniques for integrating math with content literacy, science, art, music, and physical education will be included. Prerequisite: MATH 17171 with a grade of C or better and EDCI 62119 with a grade of C or better. Corequisites for Elementary and Special Education majors include: EDCI 62225, EDCI 62228, EDCI 62229, and SCED 28226. (F, S)

MATH 17280 - Methods in Teaching with Technology (3)

Introduces technological tools and appropriate methods for using them to teach mathematics and science. Prerequisite: Successful completion of an Institutional Requirement for Digital Literacy. (S)

MATH 17299 - Special Topics (1 to 4)

Will be offered according to student needs and interests. Each offering will be designed to incorporate the latest information pertaining to a timely topic in Mathematics or Statistics. Repeatable for additional experience, new material, or progression of study.

MATH 17311 - Linear Algebra (3)

An elementary introduction to finite-dimensional vector spaces and matrices. Topics include linear independence, bases, matrix operations, canonical forms, similarity, invertibility, geometric applications and determinants. Prerequisite: MATH 17117 with a minimum grade of C, or MATH 17120 with a minimum grade of C. (F)

MATH 17316 - Linear Statistical Models I (3)

Applied course in statistics, including analysis of variance, multiple regression and the use of SAS, a statistical package. Prerequisite: A minimum grade of C in either MATH 17114 or MATH 17230, or consent of instructor. (F)

MATH 17318 - Linear Statistical Models II (3)

A course covering many of the statistical designs and techniques widely used in research and applications. Prerequisite: A minimum grade of C in either MATH 17114 OR 17230. (S, odd years)

MATH 17319 - Graph Theory (3)

An introduction to the theory and applications of graphs. Topics may include undirected and directed graphs and trees. Prerequisite: A minimum grade of C in one of the following: MATH 17117 or MATH 17120. (F, S)

MATH 17321 - Calculus III (4)

Topics include polar and parametric equations, additional multivariate topics, vector valued functions, and vector analysis. Prerequisite: A minimum grade of C in MATH 17121 or consent of instructor. (F, odd years)

MATH 17323 - Math Assessment and Intervention: Theories and Techniques (2)

Candidates in this module will investigate principles of using universal screeners and curriculum-based measures (CBMs) to assess and evaluate student performance in mathematics. Use of assessment tools in mathematics to identify learning problems, to monitor student growth, and to implement response to intervention practices will be explored in this module. This course requires 3-5 hours of field experience work. Prerequisites: MATH 17227 and MATH 17371 and EDCI 62229 all with a C or better and Admittance to Teacher Education. Corequisites for Elementary and Special Education majors include: EDCI 62331. (S, SS)

MATH 17333 - Probability and Statistics (3)

This course covers the fundamental concepts and techniques of probability, discrete random variables and probability distributions, continuous random variables and probability distributions, sampling distribution, point estimation, confidence intervals for one and two samples, and hypothesis testing for one and two samples. Prerequisites: MATH 17114 or consent of instructor. (F)

MATH 17342 - An Introduction to Modeling (3)

This course is a bridge between the study of mathematics and applications of mathematics to various fields. The course provides an introduction to the entire modeling process. As part of their problem-solving capabilities, students will have the opportunities to practice Empirical model construction, Model analysis, and Model research. The course requires extensive use of various software, CAS, Excel spreadsheets, R, or Python, to solve modeling problems. Application areas may include difference equations, model fitting, empirical model construction, divided difference tables, cubic splines, Monte Carlo simulation models, reliability models, linear programming, and nonlinear optimization. Prerequisites: MATH 17114, MATH 17120, and (MATH 17145 or CSIS 44141), or consent of instructor. (S)

MATH 17351 - College Geometry (3)

A survey of geometry with an emphasis on theorems and proofs. Prerequisites: A minimum grade of C in MATH 17117 or a minimum grade of C in MATH 17120 or consent of instructor. MATH 17390 recommended. (S)

MATH 17356 - Data Mining with Applications to Business and Sciences (3)

This course is an introduction to the basic core concepts of knowledge discovery and the more useful techniques and standard algorithms with a focus on the hands-on start-to-finish process for learning from data and turning data into actions. Students will learn how to convert big data into usable information and further discover valuable knowledge via modeling. Prerequisite: MATH 17114 or MATH 17230 or consent of instructor. (S, even years)

MATH 17361 - Differential Equations (3)

A study of solutions of elementary differential equations. Topics include standard first-order forms, special higher-order linear equations, Laplace transform techniques, power series solutions and applications. Prerequisite: A minimum grade of C in MATH 17121 or consent of instructor. (S)

MATH 17366 - Statistical Machine Learning for Pattern Recognition (3)

This course is science and engineering oriented and focuses on pattern recognition to present approximate learning algorithms

that permit fast approximate answers in situations where exact answers are not feasible to graphical models describing probability distributions. Prerequisites: MATH 17230 and MATH 17316.

MATH 17371 - Algebra and Geometry for Elementary and Middle School Teachers (3)

Topics include plane and space figures, congruence, similarity, mensuration and transformation geometry. For elementary and middle school education majors only. Proficiency examination is available. Prerequisite: A grade of C or better in MATH 17171. (F, S)

MATH 17390 - Transition to Proofs (3)

Topics include sets, relations, the propositional and predicate calculus and methods of mathematical proof. Prerequisites: A minimum grade of C in MATH 17117 or a minimum grade of C in MATH 17120 or consent of instructor. MATH 17215 or MATH 17319 recommended. (F)

MATH 17399 - Special Topics (1 to 4)

Will be offered according to student needs and interests. Each offering will be designed to incorporate the latest information pertaining to a timely topic in Mathematics or Statistics. Repeatable for additional experience, new material, or progression of study.

MATH 17415 - Modern Algebra (3)

An introduction to abstract algebra, including groups, rings, and fields. Theory and application are explored through examples, proofs, and computations. Prerequisites: MATH 17390 or permission of instructor. (F)

MATH 17416 - Modern Algebra-Groups (3)

An introduction to standard abstract algebraic systems focusing on groups. Prerequisite: A minimum grade of C in MATH 17390 or consent of instructor.

MATH 17421 - Introduction to Analysis (3)

A careful examination of the main theorems of elementary calculus. Topics include completeness of \mathbb{R} , limits of sequences and functions, continuity, mean-value theorem, Riemann integration and representation of functions. Prerequisites: A minimum grade of C in both MATH 17121 and MATH 17390, or consent of instructor. (S, even years)

MATH 17471 - Mathematical Methods for Elementary Teachers (3)

A study of current techniques, this course is designed to acquaint prospective teachers with both the content of elementary school mathematics and the materials available to aid in the teaching, assessment, and evaluation of this content. Activities are incorporated to provide experience with the various methods of teaching mathematics to elementary students. Prerequisite: A grade of C or better in MATH 17371. (F, S, SS)

MATH 17472 - Time Series Forecasting (3)

A course in time series modeling and forecasting, including techniques that can be used to produce and evaluate forecasts, with special emphasis given to forecasting in economics. Prerequisites: MATH 17114 or MATH 17116 or MATH 17230 or consent of the instructor.

MATH 17473 - Advanced Topics for Middle School Teachers (3)

A course designed to provide more fundamental treatment of mathematical topics for the middle school. Topics include algebraic systems, trigonometry, number theory, problem-solving techniques, graphing, logic, probability and its applications to statistics. Prerequisite: Consent of instructor. (F)

MATH 17489 - Special Topics (1 to 4)

Will be offered according to student needs and interests. Each offering will be designed to incorporate the latest information pertaining to a timely topic in Mathematics or Statistics. Repeatable for additional experience, new material, or progression of study.

MATH 17495 - Seminar in Mathematics (2)

This course is a survey of real-life mathematical applications that will provide senior-level students of mathematics an opportunity to apply their mathematical knowledge. Prerequisite: 12 hours of mathematics at the 300+ level. (S)

MATH 17497 - Connections to Teaching Mathematics (1)

A course that will analyze and review topics from throughout the mathematics curriculum and connect these topics to teaching at the high school level. Prerequisite: 19 hours of Mathematics. (S)

MATH 17498 - Seminar in Teaching Elementary School Mathematics (1)

Supervised practice in teaching mathematics in the elementary school with weekly

seminar on teaching issues. Prerequisite: MATH 17471. (S)

MATH 17499 - Independent Study (1 to 3)

Prerequisite: Consent of instructor. May be repeated with different topics.

MATH 17511 - Applied Linear Algebra (3)

The course focuses on how linear algebra is used for nonlinear representation via splines and wavelets. It includes applications in signal processing, image analysis and financial analysis. Prerequisite: A minimum grade of C in MATH 17311, or consent of instructor. (S, even years)

MATH 17518 - Number Theory (3)

Topics include divisibility, congruences, theory of quadratic residues, Diophantine analysis. Prerequisite: A minimum grade of C in MATH 17390 or consent of instructor. (F, even years)

MATH 17520 - Applied Analysis (3)

An advanced course in analysis which may include vector analysis, differentials, integration theory, elementary and analytic functions of a complex variable. Prerequisites: A minimum grade of C in both MATH 17121 and MATH 17390, or consent of instructor. (S, odd years)

MATH 17531 - Applied Time Series (2)

A course in forecasting and some of the statistical techniques that can be used to produce forecasts. Prerequisites: MATH 17114 or MATH 17230 or consent of instructor.

MATH 17535 - Probability Theory (3)

A mathematical development of probability with emphasis on continuous random variables. Prerequisites: MATH 17121 and MATH 17230, or MATH 17610 or consent of instructor.

MATH 17536 - Statistical Inference (3)

A mathematical development of statistics with emphasis on continuous random variables. Prerequisite: MATH 17535.

MATH 17575 - Workshop in Mathematics Education (1 to 6)

Prerequisite: consent of instructor. May be repeated with different topics.

MATH 17580 - Methods in Secondary School Mathematics (3)

A study of teaching, assessment, and evaluation procedures and current literature

useful in teaching secondary school mathematics. Prerequisite: MATH 17280 with a grade of C or better, and Admittance to Teacher Education or consent of instructor. (S)

MATH 17582 - Mathematical Methods for Middle School Teachers (3)

A study of current literature and techniques useful in teaching, assessing, and evaluating middle school mathematics. Prerequisite: MATH 17280 and MATH 17371 with grades of C or better, and Admittance to Teacher Education, or consent of instructor. (S)

MATH 17599 - Special Projects (1 to 6)

Prerequisites: 30 hours in mathematics or computer science and consent of instructor. May be repeated with different topics.

MGMT - Management

MGMT 54112 - Business Connections (2)

An introduction to the trends and opportunities in today's dynamic business environment surveying economics, global markets, social responsibility, ownership forms, entrepreneurship, management organization, marketing, accounting, and financial management.

MGMT 54201 - MBA Business Foundation (3)

This course provides the requisite knowledge in accounting, economics, finance, management, and marketing to prepare an entering MBA student with the foundation in general business necessary for successful graduate faculty study. This course does not fulfill any requirement for any undergraduate business major or minor.

MGMT 54310 - Business Communication (3)

Designed to acquaint students with current knowledge and emerging trends in business communication. Emphasis on developing and improving business writing (letters, memoranda, reports) and oral presentation skills, understanding the importance of communication in organizations, developing skills needed in the job search, and learning how to match specific communicative styles to various situations. Prerequisites: COM 29102, and ENGL 10112 or ENGL 10115.

MGMT 54313 - Principles of Management (3)

An introduction to the field of management designed to give a basic understanding of the principles, concepts, and functions of management within that social system called the information era. Successful management is dependent on fostering responsible and autonomous behavior, as authoritarian structures are being replaced by democratic processes evolving within modern organizations. Thus, successful management is studied as the processes and behavior of participative management.

MGMT 54314 - Human Resource Management (3)

A study of objectives, functions, and organization of typical human resource management, emphasizing job analysis, selection and placement; development and training; safety and health; employee relations; administration of wages and benefits; labor legislation; and personnel research. Prerequisite: MGMT 54313.

MGMT 54315 - Operations Management (3)

A study of the several areas of primary concern to the production manager including layout, work measurement, wage incentives, inventory control, and quality control. The use of both qualitative and quantitative tools to aid in decision-making will be introduced. Prerequisites: A grade of C or better in MGMT 54313 and MATH 17114 and MATH 17116 or MATH 17117 or MATH 17118 or MATH 17119 or MATH 17120, or consent of instructor.

MGMT 54316 - Organizational Behavior and Theory (3)

The application of principles and concepts of the behavioral sciences and total quality management to the interpersonal relationships found within modern organizations. As quality management practices replace authoritarian structures with more democratic processes, a need to stress continuous improvement, self-regulation of work content and structure within a job, self-evaluation of performance, self-adjustment in response to work system variability, and participation in the setting of job goals or objectives are seen as the key to effective managerial behavior. Prerequisite: MGMT 54313.

MGMT 54318 - Entrepreneurship (3)

A course designed to aid the prospective small business owner in deciding whether or not to start or purchase a retail business, becoming aware of the pitfalls and failure,

and understanding how various decisions might increase chances of success. Small business will be compared and contrasted with the larger corporation on several topics. Prerequisite: MGMT 54313.

MGMT 54320 - Negotiations (3)

A study of the theoretical and practical perspectives of the various negotiation process strategies and tactics found in the contemporary business and social setting. Emphasis will be placed on the preparation element of the negotiation process, distributive and integrative negotiation techniques, along with developing negotiation styles, relational trust building, power, persuasion and ethics, creativity and problem-solving in negotiations, multi-party and multi-cultural negotiations. Prerequisite: MGMT 54313.

MGMT 54321 - Staffing (3)

This course takes an in-depth look at the flow of talent into and through organizations. It covers human resource planning, recruitment and selection, career transitions, and employee development as they relate to effective workforce management. Prerequisite: MGMT 54314 and MGMT 54316.

MGMT 54322 - Employee Rewards and Benefits (3)

This course provides an overview of all aspects of the total compensation package from a human resource management perspective. Special attention is provided to pay and benefits, as well as how total compensation can be utilized strategically by organizations. New and emerging approaches to compensation are also considered. Prerequisites: MGMT 54314 and MGMT 54316.

MGMT 54323 - International Human Resource Management (3)

Explores the trends in workforce globalization and their implications for effective human resources management. Topics include intercultural competencies, cultural adaptation, global mobility, and a comparative examination of human resource policies and practices in major global markets. Students explore the skills and knowledge required to manage talent in multinational organizations. Prerequisites: MGMT 54314 and MGMT 54316.

MGMT 54324 - Organizational Training and Development (3)

This course provides a solid background on the fundamentals of training and development for complex organizations in the 21st century. It focuses on needs assessment, transfer of training, learning environment design, methods and evaluation and examines the models that enhance the best training and development practices suitable for rapidly changing environments. Prerequisites: MGMT 54314 and MGMT 54316.

MGMT 54325 - Employee and Labor Relations (3)

This course is designed to study the labor law, trends in the labor movement, union structure, organizing and collective bargaining processes. It will prepare students to handle negotiations, grievance, arbitration, and decertification in a union environment, and manage employees in both union and non-union organizations. Prerequisites: MGMT 54314 and MGMT 54316.

MGMT 54340 - Special Topics in Business (1 to 3)

Provides concentrated study on a special topic in one of the areas in the Melvin D. and Valorie G. Booth School of Business and Professional Studies. Topics will vary. This course is repeatable for additional experience, new material and progression of study.

MGMT 54345 - Sport Management (3)

This course is designed to provide an overview of the sport industry and provide insight into the various industry segments, related operations, functions, and career opportunities in sport ranging from youth/public supported sport to elite/private/professional sport. Prerequisites: MGMT 54313 and MKTG 55330.

MGMT 54413 - Business and Society (3)

Economic, social, technological, and ethical problems facing American business and its leaders in the 21st century. Prerequisites: MGMT 54313 and senior standing. (F, S, SS)

MGMT 54415 - Intern in Management (1 to 3)

Management majors may, with approval from the School Director, enroll in an internship section. This is recommended for students with junior or senior standing. This course is repeatable for new experience. Prerequisites: MGMT 54313 and a 2.5 GPA.

MGMT 54417 - Strategy and Decision Making (3)

A course designed to give students the opportunity to integrate information from the functional areas of an organization in the formation and implementation of organizational policy. Computer simulations will also be utilized to simulate organizational decision-making. Prerequisite: Senior standing, ECON 52150 and ECON 52151 with a minimum grade of C in each course, and completion of all other common professional component courses with a minimum grade of C in each course.

MGMT 54419 - Independent Study in Management (1 to 3)

Management majors may, with approval from the School Director, enroll in an independent study section. The approval must be received during the term preceding enrollment. This course is repeatable with topics changing. Prerequisite: MGMT 54313.

MGMT 54421 - Internship in Human Resource Management (1 to 3)

Students with junior or senior standing, with the permission of the School Director, may enroll in an intern program in the area of human resource management with an approved business concern. Prerequisites: MGMT 54314 and MGMT 54316.

MGMT 54436 - Multinational Management (3)

A course to provide an understanding of the operations of multinational corporations. It will concentrate on the decision making process as related to the planning, organizing, and controlling of multinational operations. Specifically, this includes differences in operation overseas, political risks, international finance, trade and trade barriers, joint ventures, partnerships, and human resource planning. Prerequisite: MGMT 54313.

MGMT 54440 - Employment Strategy (1)

A study of strategies in the employment seeking process. Topics include resumes, letters of application, interviewing, networking, and research techniques. Prerequisite: Senior standing or consent of instructor.

MGMT 54520 - Advanced Human Resource Management Seminar (3)

An intensive study of the federal laws that provide the framework for business managers. The class also explores current topics in Human Resource Management appropriate for HR practitioners and practicing managers. This course serves as the capstone course for the HR portion of the OB/HR major. Students cannot receive credit for MGMT 54520 and MGMT 54620. Prerequisite: MGMT 54314, MGMT 54316, and senior or graduate standing.

MILS - Military Science**MILS 42102 - Leadership Practicum I (2)**

Examines leadership in basic tactical and patrolling operations. A tactical application exercise and participation in physical fitness conditioning are required. Students practice leadership according to 16 principles and learn basic individual soldier skills. Repeatable, up to 4 credit hours, for additional experience, new material, and progression of study. (F)

MILS 42112 - Leadership Practicum II (2)

Continuation of MILS 42102. Examines advanced squad and platoon tactical operations with emphasis on patrolling operations. Topics include: leadership techniques, basic first aid and problem-solving exercises. A tactical field application exercise and physical fitness conditioning program are required. Students perform various leadership roles and present classroom instruction. Repeatable, up to 4 credit hours, for additional experience, new material, and progression of study. (S)

MILS 42116 - Foundations of Officership (1)

Introduces the student to issues and competencies central to a commissioned officer's responsibilities. These initial lessons establish a framework for understanding officership, leadership, and Army values. Addresses life skills including fitness and time management. Designed to give the student an accurate insight into the Army profession and the officer's role in the Army. (F)

MILS 42126 - Basic Leadership (1)

Course builds upon the fundamentals introduced in MILS 42116 Foundations of Officership, by focusing on leadership theory and decision making. Life skills lessons include: problem solving, critical thinking, leadership theory, followership, group

interaction, goal setting, and feedback mechanisms. Prepares students to advance to more complex leadership instruction concerning the dynamics of organization. Students are increasingly required to demonstrate knowledge of leadership fundamentals and communications. (S)

MILS 42202 - Leadership Practicum III (2)

Course examines squad and platoon offensive and defensive operations and leadership procedures in patrolling operations. A tactical application exercise and participation in physical fitness conditioning are required. Students perform various leadership roles and present classroom instruction. Repeatable, up to 4 credit hours, for additional experience, new material, and progression of study. (F)

MILS 42212 - Leadership Practicum IV (2)

Continuation of MILS 42202 to examine advanced squad and platoon offensive and defensive operations, reaction to obstacles and leadership procedures in patrolling operations. A tactical application exercise and participation in physical fitness conditioning are required. Students perform various leadership roles and present classroom instruction. Repeatable, up to 4 credit hours, for additional experience, new material, and progression of study. (S)

MILS 42216 - Individual Leadership Studies (2)

Designed to develop within the student a knowledge of self, self-confidence, and individual skills. Through experiential learning activities, students develop problem-solving and critical-thinking skills, and apply communication, feedback, and conflict-resolution skills. Builds upon the fundamentals introduced in MILS 42116 and MILS 42126, this course delves into several aspects of communication and leadership theory. Focuses on critical life skills which enable the student's future success. Includes a major leadership and problem-solving case study which draws upon previous instruction. (F)

MILS 42226 - Leadership and Teamwork (2)

Course focuses on self-development guided by knowledge of self and group processes. Experiential learning activities are designed to challenge students' current beliefs, knowledge, and skills. Takes the approach of placing students in a wide variety of group exercises designed to emphasize various leadership competencies and insights. The instructor, acting as facilitator, helps guide

student processing of the events to derive the leadership, group dynamics, and problem-solving lessons that the exercises offer. Practical life skills are emphasized. (S)

MILS 42300 - Leadership and Management I (3)

Provides the student with an examination of ethics, career professionalism, attributes of leadership, and selected light infantry tactical skills. (F)

MILS 42302 - Leadership Practicum V (2)

Examines squad and platoon offensive and defensive operations, the patrol leader in patrolling operations, and a tactical application exercise is required. Students perform in various leadership roles and present classroom instruction. (F)

MILS 42310 - Small Unit Leadership and Tactics (3)

Course studies principles and fundamentals of military operations, the decision-making process, planning and execution of light infantry operations, and a thorough examination of military ethics. Prerequisite: MILS 42300, advanced-course status, required to be taken concurrently with MILS 42312. (S)

MILS 42312 - Leadership Practicum VI (2)

Familiarization with military firearms, including assembly and disassembly, tactical communications, and a field artillery request and application exercise is required. (S)

MILS 42400 - Leadership and Management II (3)

Study of the principles of decision making, the planning and conduct of unit training, the role of the military in the U.S., professional ethical standards, and the use of those standards in situations involving power, influence, and subordinate counseling. (F)

MILS 42402 - Leadership Practicum VII (2)

Practical applications in problem analysis, decision making, planning and organization, delegation and control, and development of interpersonal skills required for effective management. Participation in physical fitness conditioning and tactical application exercise required. Students perform in various leadership positions and present classroom instruction. (F)

MILS 42410 - Army Management and Organizational Systems (3)

Advanced study of leadership and management that examines administration at the company level and military justice and an overview of the obligations and responsibilities of an officer. (S)

MILS 42412 - Leadership Practicum VIII (2)

Practical applications in problem analysis, decision making, planning and organization, delegation and control, and development of interpersonal skills required for effective management. A tactical application exercise and participation in physical fitness conditioning are required. Students perform various leadership roles and conduct classroom instruction. (S)

MILS 42450 - Independent Study in Military Science (1 to 5)

Investigates selected leadership problems or topics on an individual or conference basis. Course may be repeated with a change in topic. Prerequisite: Consent of department chairperson.

MKTG - Marketing

MKTG 55330 - Principles of Marketing (3)

The study of determination and satisfaction of consumer wants or needs from a managerial perspective. Elements of this process include market research, demand analysis, product development, pricing, promotion, and distribution.

MKTG 55331 - Retailing (3)

A strategic approach to retailing which concentrates on planning to meet the objectives of the retail concept. Specifically this includes planning and organizing the retail firm, planning and managing merchandise, on-line retailing, understanding and communicating with the consumer, choosing a store location, developing store personnel, pricing retail merchandise, and integrating and controlling the retail strategy. Prerequisite: MKTG 55330.

MKTG 55332 - Promotion (3)

A study of that element of the marketing mix that relates to persuasive communication with prospective stakeholders of the firm. Specifically this includes an analysis of advertising, personal selling, publicity, direct marketing, Internet marketing and sales promotion. Prerequisite: MKTG 55330.

MKTG 55333 - Consumer Behavior (3)

An interdisciplinary behavioral approach to understanding the consumer. Consideration

is given to consumer psychological, sociological, and cultural processes as they relate to the development of marketing strategies. Prerequisite: MKTG 55330.

MKTG 55334 - Social Media Marketing (3)

This course examines how to use social media technologies, channels, and programs to create, communicate, deliver, and exchange valuable offerings for an organization's stakeholders. Specifically, some basic concepts, theories, models, and research methods will be explored, helping marketing students develop social media marketing plans to enhance an organization's performance in the areas of marketing research, new product development, promotion, branding, pricing, relationship management & service recovery, and retailing & e-marketing. Prerequisite: MKTG 55330 with minimum grade of C.

MKTG 55425 - Knacktive (3)

Knacktive replicates the creative demands and intense teamwork atmosphere of a technology-oriented, professional marketing communications agency. Interested students must apply for a specific position on a team, participate in an interview, and be selected by the course faculty before registering. Prerequisites: Each position on a team has a minimum prerequisite and students can view the list on the Knacktive website, contact a Knacktive faculty member, or contact their respective department office for more information. Course is repeatable for additional experience. (Spring only)

MKTG 55430 - Sales and Sales Management (3)

A study in the art of selling and the sales process in addition to the managerial aspects of sales management such as planning, organizing, staffing, and supervising the sales effort. Prerequisites: MKTG 55330 or AGRI 03302.

MKTG 55431 - Logistics Management (3)

An analysis of the physical distribution function in marketing with emphasis on channel structure and relationships, transportation, inventory analysis, warehousing, communication and information flow, and facility analysis as elements of an integrated system. Prerequisite: FIN 53324, MGMT 54315, MKTG 55330.

MKTG 55432 - Marketing Research (3)

An analysis of the various methods and techniques available for collection and interpretation of data as they apply to marketing research. Prerequisites: MATH 17114 and MKTG 55330.

MKTG 55434 - Marketing Management (3)

The major areas of marketing are examined from the viewpoint of the marketing executive. Emphasis is given to consumer analysis, market research, product planning, channels of distribution, promotion, pricing, and the integration of the above in the development of the total marketing program. Requires a major team project, requiring comprehensive marketing analysis. Prerequisites: MKTG 55432 and senior standing.

MKTG 55435 - Intern in Marketing (1 to 3)

Marketing majors may, with approval from the School Director, enroll in an internship section. This is recommended for students with junior or senior standing. This course is repeatable for new experience. Prerequisites: MKTG 55330 and a minimum 2.5 cumulative GPA.

MKTG 55437 - International Marketing (3)

An interdisciplinary approach to marketing in the international marketplace. Specifically, this course focuses on how to conduct cultural environment analysis, international marketing strategy development and implementation based on economics, sociology and cross-cultural psychology. Prerequisite: MKTG 55330 with a grade of C or higher.

MKTG 55438 - International Business (3)

A course on the myths, misconceptions, and misinformation prevailing in International Business, especially in the areas that affect us most-protectionism vs. free trade, balance of payments, deficits and surpluses, the European Union, WTO, problems unique to developing countries, changing trade patterns and reasons why, floating vs. fixed monetary systems, cultural differences, and multinationals. Prerequisites: MGMT 54313 and MKTG 55330.

MKTG 55439 - Independent Study in Marketing (1 to 3)

Marketing majors may, with approval from the School Director, enroll in an independent study section. The approval must be received during the term preceding enrollment. This course is repeatable with topics changing.

MKTG 55440 - Business Study Abroad (1 to 6)

Courses taken in a foreign country, which encompass a wide variety of business concepts and applications. May include internships taken abroad and special independent study projects. The number of hours assigned will be determined by the student's advisor and the School Director, based upon the rigor and length of the course or extent of the internship. This course is repeatable for new experience.

MMED - Mass Media**MMED 20110 - Fundamentals of Electronic Media Production (3)**

This course will acquaint the student with techniques and equipment to produce audio and video content, as well as web pages. Convergence, distribution methods, and standard industry practices are also covered. (F, S)

MMED 20111 - Introduction to Broadcast Operations (3)

An introduction to the operation of radio and television equipment for professional broadcast situations. Includes control room procedures as well as a study of FCC rules and regulations. (F, S)

MMED 20120 - Introduction to Mass Media (3)

Overview of the history of the media, social responsibilities of the journalist, and issues facing the media today. (F)

MMED 20130 - Professional Media Writing (3)

The course will prepare students for media writing, with special emphasis on AP style, news judgment, and a thorough review of grammar. (F, S)

MMED 20150 - Journalism Practicum (Yearbook) (1)

Laboratory practice working on the Tower student yearbook. This course is repeatable for new, advanced, or expanded experience. (F, S)

MMED 20151 - Journalism Practicum (Newspaper) (1)

Laboratory practice working on the Northwest Missourian student newspaper. This course is repeatable for new, advanced, or expanded experience. (F, S)

MMED 20215 - Practicum in Radio (1)

Practical experience on the staff of campus station KZLX-LP. Additionally, there are six areas of work: underwriting, production, promotions, sports, news, and music. This course is repeatable for new, advanced, or expanded experience. Prerequisites: MMED 20110 OR MMED 20111. (F, S)

MMED 20216 - Practicum in Television (1)

Practical experience on the staff of campus station KNWT-TV. The areas of work include the use of television equipment and preparation of programs. This course is repeatable for a new, advanced, or expanded experience. Prerequisite: MMED 20110 OR MMED 20111. (F, S)

MMED 20220 - Media Literacy (3)

This course will concentrate on media content and emphasize critical analysis and the ability to look at many sides of a topic that concerns the globally-aware citizen. Media Literacy will analyze information, values, technology, and the underlying messages conveyed via mass media. The course examines the accuracy of messages and explores how media shapes views of politics, culture, and society. (F, S)

MMED 20221 - Ethnographic Film Study (3)

A study of international cinema from a multicultural standpoint. The course will focus on some predominant themes common to many world cultures, themes such as war, liberation, immigration, and racism. (F, S) (MOTR FILM 100)

MMED 20224 - Introduction to Audio (3)

A study of the basic theoretical and practical elements in audio production. Performance, equipment, program productions, and editing are covered. Lecture and laboratory. Prerequisite: MMED 20111 or consent of the instructor. (F)

MMED 20225 - Video Production (3)

Basic theory and practice in video production. Lighting, video cameras, picture aesthetics, television audio and post-production, including non-linear editing, are covered. Prerequisite: MMED 20111 or consent of the instructor. (S)

MMED 20227 - Reporting (3)

Comprehensive preparation in identifying, gathering, structuring, and styling news. Prerequisite: MMED 20130. (S)

MMED 20230 - Introduction to Advertising (3)

This introductory course will examine the foundations, concepts, strategies, and operations of the advertising industry. This course will examine the real world of advertising and present the breadth as well as depth of the field. (F, S)

MMED 20243 - Media Design (3)

Study of print, web, and mobile publications with a concentration on production and design using computers. (F, S)

MMED 20300 - Special Offering (1 to 4)

Courses which are offered on only one occasion or variable issue-oriented courses which have the content described in the title. Credit and prerequisites as announced. This course is repeatable for a new, advanced, or expanded experience.

MMED 20302 - Special Topics (1 to 3)

Courses will be occasionally offered on a one-time or issue-oriented basis. Credit and prerequisites as announced. See individual semester course offerings for details. Course can be repeated for a new, advanced, or expanded experience for a total of up to 9 semester hours.

MMED 20303 - Introduction to Web Publishing (3)

An introduction to the concepts and strategies of using the Internet to communicate to an audience. Students will analyze different types of web sites and why they are built, and examine common site features and good site design and content practices. (F, S)

MMED 20304 - Advertising Case Studies (3)

This course examines the concepts, strategies, and operations of specific advertising campaigns, both past and present. This examination allows students to better understand the strategies and frailties of advertising campaigns that have both succeeded and failed. The course ensures students are aware of famous advertising campaigns, and provides them with a full understanding of what contributes to the fame, success, and failure of those campaigns. (F)

MMED 20314 - Communication Law and Ethics (3)

A study of the legal aspects of the mass media, particularly libel, obscenity, prior restraint, licensing, privacy, copyright, FCC regulations, and First Amendment issues. Also, the course will include examination of media ethics and responsibility. Prerequisite: Advanced Standing. (F, S)

MMED 20315 - Video Journalism (3)

A study of the information-gathering, writing, videography, and, video and audio editing used in preparing content for video-based news providers such as television and the web. Prerequisite: MMED 20120, MMED 20130, and MMED 20227. (F)

MMED 20320 - Theories of Mass Communication (3)

Comprehensive examination of historical and contemporary theories of mass communication and the development of mass communication research. Prerequisite: Advanced standing. (F, S)

MMED 20322 - Advanced Practicum in Radio (2)

Advanced experience including leadership positions on the staff of campus station KZLX-LP. This course is repeatable for a new, advanced or expanded experience. Prerequisites: Advanced standing and MMED 20215. (F, S)

MMED 20326 - Advanced Practicum in Television (2)

Advanced experience on the staff of campus station KNWT-TV. The work includes advanced production, directing and/or management. This course is repeatable for a new, advanced or expanded experience. Prerequisites: Advanced standing and MMED 20216 and MMED 20225. (F, S)

MMED 20327 - Advanced Reporting (3)

Theory and practice of reporting for a variety of media. Students will develop important skills in interviewing, computer-assisted reporting and in covering special beats. Students will continue to develop their ability to correctly use Associated Press broadcast and print style. Students will produce content for newspaper, television and online coverage. Prerequisites: MMED 20227 and MMED 20315. (S)

MMED 20329 - Audio Technology and Recording (3)

An examination of audio technology and recording techniques as they apply to studio

production. Students will explore the theory of audio technology from the past to the present through studio and live multi-track recording, editing and mixing sessions. Lecture and Laboratory. Prerequisite: MMED 20224. (S)

MMED 20330 - Advanced Video Production (3)

Advanced study and development of video production skills. Specific areas of study include electronic field production, post production, lighting and set design. Prerequisites: Advanced standing and MMED 20225. (F, S)

MMED 20333 - Social Media Strategies (3)

The study and application of social media tools and theories as they apply to the development of a social media strategy as employed by media and/or creative organizations. Prerequisite: Advanced Standing. (F)

MMED 20334 - UX and Analytics (3)

This course will examine user experience (UX) best practices and common tools used in early-stage user experience planning. Emphasis will be on understanding both user intent and analytics data to make UX improvements to digital properties. Prerequisites: MMED 20243 and MMED 20303. (F)

MMED 20343 - Communication Design (3)

Study of advanced design techniques and principles used for print and multimedia design. Various software packages, design trends and readability issues will be examined. Prerequisite: MMED 20243. (F)

MMED 20345 - Sports Broadcasting (3)

Sports Broadcasting will apply the student's current multimedia journalism skills and experience to the specialized field of sports coverage. The student will explore the history of broadcast sports coverage as well as the direction in which the field is headed. He or she will critically review journalistic ethics as they apply to sports coverage. The student will use interviewing, writing, audio and video as storytelling tools. The student will also develop basic skills associated with sports play-by-play. Prerequisite: MMED 20315. (S)

MMED 20350 - Advanced Journalism Practicum (Yearbook) (2)

Advanced laboratory practice working on the Tower student yearbook. This course is

repeatable for a new, advanced or expanded experience. Prerequisites: Advanced standing and MMED 20150. (F, S)

MMED 20351 - Advanced Journalism Practicum (Newspaper) (2)

Advanced laboratory practice working on the Northwest Missourian student newspaper. This course is repeatable for a new, advanced or expanded experience. Prerequisites: Advanced standing and MMED 20151. (F, S)

MMED 20352 - Copy Editing (3)

Theory and practice of news processing, i.e. copy editing, coaching, grammar and news structure. Prerequisite: MMED 20227. (SS)

MMED 20355 - Photojournalism (3)

This is an introductory course in visual journalistic communication that will help students develop the photographic skills needed to become successful at producing images and recognizing what makes a good photograph in terms of content, composition and technical quality. Instruction will progress from basic camera operation and the news one shot to more comprehensive visual storytelling that may incorporate video or other multimedia components. (F)

MMED 20356 - Sports Photography (3)

This course will concentrate heavily on covering sports events here on campus and also in the area. Various sports will first be examined and example photos will be viewed in class. Students will then be expected to photograph and file photos under realistic deadline situations. Students will also be introduced to web-based multimedia production methods for the sports website. Prerequisite: Advanced Standing. (S)

MMED 20357 - Opinion Writing (3)

Opinion Writing emphasizes writing and critical thinking in the development of institutional and personal editorials and columns for newspapers and other print media. The mission, obligation and history of opinion writing and the editorial page will be covered, along with correct and effective use of the English language to produce persuasive, argumentative, explanatory and informational editorials. Current issues will serve as springboards for comment. Prerequisite: MMED 20227. (S)

MMED 20358 - Feature Writing (3)

Writing and revising articles for magazines, writing queries, personality sketches and

educational features. Prerequisite: Advanced standing. (S)

MMED 20359 - Sports Reporting (3)

Comprehensive preparation in identifying, gathering, structuring and styling sports news in a variety of formats. Prerequisite: MMED 20227. (F)

MMED 20370 - Live Sound Theory and Practice (3)

This course examines the basic theoretical and practical elements of live sound. Equipment, technology, performance management, production roles, sound theory, and sound measurement and analysis are covered. Lecture and Laboratory. Prerequisites: MMED 20224 and MMED 20329, or consent of instructor.

MMED 20400 - Special Offering (1 to 3)

Courses which are offered on only one occasion or variable issue-oriented courses which have the content described in the title. Credit and prerequisites as announced. This course is repeatable for a new, advanced, or expanded experience.

MMED 20406 - Advanced Audio (Music) (3)

An advanced study of the theories and techniques used in the production of music. Students engage in recording, editing and production of advanced multi-track sessions for music. Topics include the theories of overdubbing, natural sound environments, audio cues and spatial relationship of various sound sources. Lecture and Laboratory. Prerequisite: MMED 20329. (alternating fall semesters)

MMED 20407 - Advanced Audio (Post) (3)

An advanced study of the theories and techniques used in the production of sound for post-production. Students engage in the recording, editing, and production of advanced multi-track sessions for video and motion picture. Topics include the theories of overdubbing, ADR, Foley, natural sound environments, audio cues, and spatial relationship of various sound sources. Lecture and Laboratory. Prerequisite: MMED 20329. (alternating fall semesters)

MMED 20408 - Music Business (3)

An examination of the professional music industry. Students will study topics such as music publishing, music licensing, music copyright law and important legal cases, performing rights organizations, royalties, contract negotiations, booking agencies,

music distribution and delivery, and artist management.

MMED 20409 - Media Business and Entrepreneurship (3)

An examination of the organization, operation and policies of both media organizations and independent media content producers. Students will focus on content evaluation; planning and budgeting; government regulation; and legal, ethical and censorship concerns from the perspective of the media manager/entrepreneur. Prerequisite: Advanced Standing. (F)

MMED 20412 - Comparative Mass Media Systems (3)

A study of foreign and international mass media systems in terms of structure, financing and content. Topics include the impact of political and cultural institutions on shaping media systems, international telecommunications organizations and mass media and developing nations. Prerequisite: Advanced standing. (F, alt. years)

MMED 20415 - IDM Seminar (1)

A seminar dealing in issues faced by multimedia professionals and preparation for advanced study. Major emphasis will be placed on the development of a professional portfolio, resume writing and interviews for the field of multimedia. Prerequisite: Junior or senior standing by advisement. (F)

MMED 20416 - Senior Seminar (1)

Designed to be the capstone experience for mass media and IDM majors, this course examines media trends and practices and further prepares students for advanced study in the media field. Emphasis will be placed on portfolio/tape development and research, writing and presentation skills. Prerequisites: Advanced standing and senior status. (F, S)

MMED 20417 - Television Directing (3)

Practice in the planning, casting, rehearsing and production of a television program from the perspective of a television director. Attention will be given to advanced production techniques as well as to the aesthetic and persuasive capabilities of the medium. Prerequisites: Advanced standing and MMED 20330. (S, alt. years)

MMED 20425 - Knacktive (3)

Knacktive replicates the creative demands and intense teamwork atmosphere of a technology-oriented, professional marketing

communications agency. Interested students must apply for a specific position on a team, participate in an interview, and be selected by the course faculty before registering. Prerequisites: Each position on a team has a minimum prerequisite and students can view the list on the Knacktive website, contact a Knacktive faculty member, or contact their respective department office for more information. (S)

MMED 20428 - Advertising Campaigns (3)

Combines creative approaches used in the creation of advertisements with media planning and buying concepts. Students will concept ad messages as well as choose media strategies and determine media costs. Focus is on how to combine message objectives with media strategies to effectively communicate to specific target audiences. Prerequisite: MMED 20230, MMED 20243, and MMED 20304. (S)

MMED 20429 - Advanced Problems in

Broadcasting-Independent Study (1 to 3)

Research in an area of broadcasting which is of particular interest to the advanced student capable of individual, directed study. Independent studies must be approved by a faculty supervisory committee. This course is repeatable for a new, advanced or expanded experience. Prerequisites: Advanced standing and consent of instructor. (F, S, SS)

MMED 20430 - Advanced Advertising Strategies (3)

A capstone course which will apply advertising principles to an actual advertising campaign. Students will form an advertising agency to create a complete advertising campaign, including situational analysis, segment identification, campaign objectives and strategies, budgeting, and creative strategies. Campaign collateral, including print, broadcast and Internet advertisements will be developed by the students and presented to the client. Prerequisites: Senior Standing and permission of instructor.

MMED 20450 - Mass Communication Study Abroad (1 to 6)

Courses taken in a foreign country, which complement Mass Communication studies. The number of hours assigned is contingent upon course rigor and will be determined by the student's advisor and department chair. Course can be repeated for a new, advanced or expanded experience for a total of up to 6 hours. (F, S, SS)

MMED 20452 - Internship (1 to 3)

Individual mass communication interests of the student are addressed through practical application through a media outlet appropriate for the student's area of concentration. Advisement required. This course is repeatable if the internship is with a different company or a different position within the previous company. Prerequisite: Advanced standing. (F, S, SS)

MMED 20459 - Independent Study in Journalism (1 to 3)

Research in the area of journalism which is of particular interest to the advanced student capable of individual, directed study. Independent studies must be approved by a faculty supervisory committee; forms are available in the office manager's office. This course is repeatable for a new, advanced, or expanded experience. Prerequisites: Advanced standing and consent of instructor. (F, S, SS)

MMED 20484 - Digital Cinematography (3)

An in-depth study of the finer points of cinematography. Camera functions, lenses, advanced lighting techniques, contrast principles, advanced picture composition, camera movement and cinematography techniques and philosophies are covered. Prerequisite: MMED 20330 or MMED 20417. (alternating spring semesters)

MMED 20490 - Sound Design and Aesthetics (3)

The culminating course in audio production, Sound Design and Aesthetics examines audio aesthetics and the final stages of audio production through practical experience. Students take on the role of a producer and demonstrate their mastery of recording theories and practices. Topics include advanced mixing, mastering, multi-channel sound design, audio aesthetics and experimental sound. Prerequisite: MMED 20406 or MMED 20407. (S)

MMED 20499 - Field Experience in Mass Media (6 to 12)

This course will offer an opportunity to gain practical experience in the field of mass media. The experience should include a minimum of 300 hours of hands-on supervised practical experience over a 12-16 week period. The experience will be directed and supervised by an approved mass communication professional as well as a department supervisor. Field experiences must be approved by a faculty supervisory

committee; forms are available in the office manager's office. This course is repeatable for a new, advanced or expanded experience. Prerequisite: department consent. (F, S, SS)

MMED 20500 - Special Offering (1 to 4)

Courses which are offered on only one occasion or variable issue-oriented courses which have the content described in the title. Credit and prerequisites as announced. This course is repeatable for a new, advanced or expanded experience.

MUS - Music

MUS 19180 - Introduction to Music Education (2)

This course provides an introduction to teaching music as a profession. (S)

MUS 19201 - The Enjoyment of Music (3)

A general studies course designed to provide the student a better understanding and appreciation of the varied styles of music. Fulfills Fine Arts component of The Northwest Core requirements. (F, S, SS) (MOTR MUSC 100)

MUS 19202 - Jazz Appreciation (3)

A general studies course designed to provide the student with a better understanding and appreciation of this uniquely American art form. Fulfills Fine Arts component of The Northwest Core requirements. (F) (MOTR MUSC 100J)

MUS 19222 - American Popular Music (3)

This course provides a cultural, social, and historical analysis of American popular music and an overview of relevant musical elements. Fulfills Fine Arts component of The Northwest Core requirements. (F, S) (MOTR MUSC 100RP)

MUS 19225 - Jazz Improvisation (2)

Designed to enable students to understand the basic concepts of jazz improvisation and to utilize the basic tools of jazz improvisation in order to express themselves musically in the jazz idiom.

MUS 19280 - World Music (3)

World music surveys the music of cultures outside the Western art tradition, with an emphasis on understanding the music within the context of the culture. Areas of focus include Africa, Latin America, India, Japan, Native American, Indonesia, China, and others. The course includes the

fundamentals of music as paralleled in Northwest Core music classes. Fulfills a Humanities component of The Northwest Core Requirements. No prerequisite. (S odd years, SS even years) (MOTR MUSC 102)

MUS 19298 - Special Topics (1 to 3)

Provides concentrated study in special areas within music. Topics vary semester to semester. Pre-requisites as announced. Repeatable with topics changing.

MUS 19299 - Music Recital Attendance (1)

Attendance at recitals and concerts presented by the Department of Music is required of each music major and minor. B.M.E majors must pass 7 semesters prior to graduation. B.A. majors must pass 8 semesters prior to graduation. Minors must pass 4 semesters prior to graduation. Course is for activity credit only. (F, S)

MUS 19419 - Independent Study in Music (1 to 2)

Specialized study in areas such as music history and literature, and theory and composition to be conducted under the direction of a faculty member. Prerequisite: Permission of instructor. May be repeated for a total of four hours with a change in topic and/or new content.

MUS 19498 - Special Topics (1 to 3)

Provides concentrated study in special areas within music. Topics vary semester to semester. Pre-requisites as announced. Repeatable with topics changing.

MUS 19499 - Senior Recital and Seminar (1)

The presentation of a public recital as prescribed in the Music Department Student Handbook. Attendance at senior seminar and completion of required portfolio. Prerequisite: Senior standing. (F, S)

Applied Music

Study in applied music is open to all University students contingent upon the availability of faculty, with priority being given first to music majors, second to music minors, third to non-music majors and minors participating in ensembles and fourth to other University students. Such study is offered at three levels: lower level (courses numbered below 300), upper level (courses numbered in the 300s and 400s) and senior/graduate level (courses numbered in the 500s). Instructors may request the

Registrar to delete a student from the class roster for failure to schedule a lesson time within the first five days of a semester and the first three days of a summer session.

Prerequisites: For all levels of applied music, students must have the permission of the instructor and/or the faculty within the area of study. For upper level, a qualifying examination must be passed; for senior/graduate level, a satisfactory senior recital must have been given.

Class Instruction

Applied music with group instruction is available in piano and in voice with enrollment directed by the faculty within the area of study.

MUS 19131 - Class Piano 1 (1)

MUS 19132 - Class Piano 2 (1)

MUS 19151 - Applied Voice Class (1)

MUS 19152 - Applied Voice Class (1)

MUS 19231 - Class Piano 3 (1)

MUS 19232 - Class Piano 4 (1)

Individual Instruction

Students may enroll in one or two hours of private lessons per semester. Each semester hour credit provides a one-half hour lesson per week. Individual instructors may have additional requirements. These courses may be repeated so that the student can develop sufficient skills and repertoire over the course of their entire program in order to receive a degree. Students must complete a minimum of 8 hours (B.M.E.) to 10 hours (B.A.) in their applied area of concentration while only being able to take 2 to 4 credit hours each year.

MUS 19123 - Applied Trumpet (1 to 2)

MUS 19124 - Applied Horn (1 to 2)

MUS 19125 - Applied Trombone (1 to 2)

MUS 19126 - Applied Baritone (1 to 2)

MUS 19127 - Applied Tuba (1 to 2)

MUS 19128 - Applied Percussion (1 to 2)

MUS 19130 - Applied Piano (1 to 2)

MUS 19135 - Applied Organ (1 to 2)

MUS 19136 - Applied Accompanying (1)

The development of skills in accompanying vocal and instrumental music at the keyboard. May be repeated for credit. This course will count toward keyboard enrollment requirements for music majors. A maximum of two credits may count toward applied keyboard requirements. Prerequisite: Permission of the instructor. (F, S)

MUS 19137 - Applied Harpsichord (1 to 2)

MUS 19145 - Applied Violin (1 or 2)

MUS 19146 - Applied Viola (1 to 2)

MUS 19147 - Applied Cello (1 to 2)

MUS 19148 - Applied String Bass (1 to 2)

MUS 19155 - Applied Voice (1 to 2)

MUS 19164 - Applied Flute (1 to 2)

MUS 19165 - Applied Oboe (1 to 2)

MUS 19166 - Applied Clarinet (1 to 2)

MUS 19167 - Applied Saxophone (1 to 2)

MUS 19168 - Applied Bassoon (1 to 2)

MUS 19323 - Applied Trumpet (1 to 2)

MUS 19324 - Applied Horn (1 to 2)

MUS 19325 - Applied Trombone (1 to 2)

MUS 19326 - Applied Baritone (1 to 2)

MUS 19327 - Applied Tuba (1 to 2)

MUS 19328 - Applied Percussion (1 to 2)

MUS 19330 - Applied Piano (1 to 3)

MUS 19335 - Applied Organ (1 to 2)

MUS 19337 - Applied Harpsichord (1 to 2)

MUS 19345 - Applied Violin (1 or 2)

MUS 19346 - Applied Viola (1 to 2)

MUS 19347 - Applied Cello (1 to 2)

MUS 19348 - Applied String Bass (1 to 2)

MUS 19355 - Applied Voice (1 to 2)

MUS 19364 - Applied Flute (1 to 2)

MUS 19365 - Applied Oboe (1 to 2)

MUS 19366 - Applied Clarinet (1 to 2)

MUS 19367 - Applied Saxophone (1 to 2)

MUS 19368 - Applied Bassoon (1 to 2)

MUS 19520 - Secondary Applied Study (1 to 2)

Students may enroll in one or two hours of private lessons in the areas of vocal, instrumental, composition and keyboard study which are outside the student's primary area of applied accomplishment. Repeatable, with the permission of the instructor. Prerequisite: consent of instructor

MUS 19523 - Applied Trumpet (1 to 2)

MUS 19524 - Applied Horn (1 to 2)

MUS 19525 - Applied Trombone (1 to 2)

MUS 19526 - Applied Baritone (1 to 2)

MUS 19527 - Applied Tuba (1 to 2)

MUS 19528 - Applied Percussion (1 to 2)

MUS 19530 - Applied Piano (1 to 2)

MUS 19535 - Applied Organ (1 to 2)

MUS 19537 - Applied Harpsichord (1 to 2)

MUS 19545 - Applied Violin (1 or 2)

MUS 19546 - Applied Viola (1 to 2)

MUS 19547 - Applied Cello (1 to 2)

MUS 19548 - Applied String Bass (1 to 2)

MUS 19555 - Applied Voice (1 to 2)

MUS 19564 - Applied Flute (1 to 2)

MUS 19565 - Applied Oboe (1 to 2)

MUS 19566 - Applied Clarinet (1 to 2)

MUS 19567 - Applied Saxophone (1 to 2)

MUS 19568 - Applied Bassoon (1 to 2)

Ensembles

Performing ensembles listed below are open to all University students regardless of majors. Some, as noted, do require auditions for participation and credit. All ensemble courses may be repeated for additional credit as per the limitations in individual course descriptions because each term new literature for that ensemble is studied and ensemble performance skills are improved.

MUS 19110 - Marching Band (1)

Marching activities and performance during the football season. May be taken as many as four times for academic credit. Credit cannot be received for this course in the same semester of enrollment in MUS 19111. (F)

MUS 19111 - Marching Band Activity (1)

Marching activities and performance during the football season. Credit cannot be received for this course in the same semester of enrollment in MUS 19110. (F)

MUS 19112 - University Chorale (1)

Large choir performing a variety of literature including major choral works. May be taken as many as four times for academic credit. Credit cannot be received for this course in the same semester of enrollment in MUS 19113. (F, S) (MOTR PERF 102C)

MUS 19113 - University Chorale Activity (1)

Large choir performing a variety of literature including major choral works. Credit cannot be received for this course in the same semester of enrollment in MUS 19112. (F, S)

MUS 19115 - Symphonic Band (1)

A large concert band with open enrollment performing a variety of music. May be taken as many as four times for academic credit. Credit cannot be received for this course in the same semester of enrollment in MUS 19116. (S) (MOTR PERF 102B)

MUS 19116 - Symphonic Band Activity (1)

A large concert band with open enrollment performing a variety of music. Credit cannot be received for this course in the same semester of enrollment in MUS 19115. (S)

MUS 19120 - Concert Band (1)

A concert band with open enrollment performing a variety of music for concert band and chamber ensembles. May be taken as many as four times for academic credit. Credit cannot be received for this course and MUS 19121 in the same semester.

MUS 19121 - Concert Band Activity (1)

A concert band with open enrollment performing a variety of music for concert band and chamber ensembles. Credit cannot be received for this course and MUS 19120 in the same semester.

MUS 19203 - Madrigal/Show Choir (1)

Select choral group specializing in madrigal, vocal jazz and swing choir literature. Prerequisite: Audition. May be taken as many as four times for academic credit. Credit cannot be received for this course in the same semester of enrollment in MUS 19204. (F, S)

MUS 19204 - Madrigal/Show Choir Activity (1)

Select choral group specializing in madrigal, vocal jazz and swing choir literature. Prerequisite: Audition. Credit cannot be received for this course in the same semester of enrollment in MUS 19203. (F, S)

MUS 19205 - Jazz Ensemble (1)

Big-band jazz ensemble and may include vocalists. Prerequisite: Audition. May be taken as many as four times for academic credit. Credit cannot be received for this course in the same semester of enrollment in MUS 19206. (F, S)

MUS 19206 - Jazz Ensemble Activity (1)

Big-band jazz ensemble and may include vocalists. Prerequisite: Audition. Credit cannot be received for this course in the same semester of enrollment in MUS 19205. (F, S)

MUS 19207 - Tower Choir (1)

Select choral ensemble. Prerequisite: Audition. May be taken as many as four times for academic credit. Credit cannot be received for this course in the same semester of enrollment in MUS 19208. (F, S)

MUS 19208 - Tower Choir Activity (1)

Select choral ensemble. Prerequisite: Audition. Credit cannot be received for this course in the same semester of enrollment in MUS 19207. (F, S)

MUS 19209 - Wind Symphony (1)

A select instrumental group that specializes in performing the repertoire written for the large and small instrumental combinations, including concert band music. Prerequisite: Audition. May be taken as many as four times for academic credit. Credit cannot be received for this course in the same semester of enrollment in MUS 19210. (F, S)

MUS 19210 - Wind Symphony Activity (1)

A select instrumental group that specializes in performing the repertoire written for the large and small instrumental combinations, including concert band music. Prerequisite: Audition. Credit cannot be received for this course in the same semester of enrollment in MUS 19209. (F, S)

MUS 19212 - Brass Ensemble Activity (1)

A variety of brass ensembles of varying sizes and instrument combinations. Prerequisite: Permission of instructor. (F, S)

MUS 19214 - Woodwind Ensemble Activity (1)

A variety of woodwind ensembles of varying sizes and instrument combinations including such groups as flute choir, woodwind quintet and clarinet choir. Prerequisite: Permission of instructor. (F, S)

MUS 19215 - Jazz Combo Activity (1)

This course is designed to provide the student with a small ensemble to learn and use the concepts of Jazz Improvisation and to learn to perform in a small group setting in order to express themselves musically through the jazz idiom. Prerequisite: Permission of instructor (F, S)

MUS 19218 - Small Vocal Ensembles (1)

Small choral group performing a variety of literature. Prerequisite: Permission of instructor.

MUS 19219 - Percussion Ensemble Activity (1)

A variety of percussion ensembles of varying sizes and instrument combinations. Prerequisite: Permission of instructor. (S)

Literature and History

MUS 19385 - Music Literature: Antiquity through Renaissance (BC-1600) (3)

Survey of the development of Western music from the time of the ancient Greeks through the Renaissance, with emphasis on development of listening skills. Prerequisite: Junior standing or above, plus ENGL 10111 and ENGL 10112 (or ENGL 10115) and the Fine Arts Northwest Core option (pref. MUS 19201). Exceptions by permission of the instructor. (F)

MUS 19386 - Music Literature: Baroque through Classical (3)

Survey of the development of Western music from the Baroque and Classical eras, with continued emphasis on development of listening skills. Prerequisite: Junior standing or above, plus ENGL 10111 and ENGL 10112 (or ENGL 10115) and the Fine Arts Northwest Core option (pref. MUS 19201). Exceptions by permission of the instructor. (S)

MUS 19387 - Music Literature: Romantic through the Present (3)

A survey of the development of Western music from the Romantic period to the present with continued emphasis on the development of listening skills. Prerequisite: Junior standing or above, plus ENGL 10111 and ENGL 10112 (or ENGL 10115), and MUS 19385

or MUS 19386 for music majors or the Fine Arts Northwest Core option (pref. MUS 19201) for non-majors. (F) (MOTR MUSC 104)

Methods and Materials

MUS 19220 - Brass Methods I (1)

Development of the basic skills and techniques of brass instrument performance and pedagogy. (F, odd years)

MUS 19221 - Percussion Methods I (1)

Development of basic skills and techniques of playing and teaching percussion with an emphasis on unpitched instruments. (F, odd years)

MUS 19223 - Brass Methods II (1)

Development of intermediate skills and techniques of brass instrument performance and pedagogy. (S, even years)

MUS 19224 - Percussion Methods II (1)

Development of basic skills and techniques of playing and teaching percussion with an emphasis on pitched instruments. (S, even years)

MUS 19240 - String Methods I (1)

Development of the basic skills and techniques of playing and teaching orchestral string instruments. (F, even years)

MUS 19241 - String Methods II (1)

Development of the intermediate skills and techniques of playing and teaching orchestral string instruments. (S, odd years)

MUS 19250 - Vocal Methods (2)

A study of the basic principles of voice production: quality, diction, range, breathing, vocalization, dynamics, agility and vocal hygiene as a basis for an approach to vocal teaching. Students will also learn the International Phonetic Alphabet (IPA) and its application to the English, Italian, German and French languages. (S)

MUS 19260 - Woodwind Methods I (1)

The introduction and development of the basic skills needed to teach beginning woodwind students on Clarinet and Saxophone. These skills include performance, pedagogy, and instrument care. (F, even years)

MUS 19261 - Woodwind Methods II (1)

The introduction and development of the basic skills needed to teach flute and double

reed students. These skills include performance, pedagogy, and instrument care. (S, odd years)

MUS 19270 - Instrumental Methods for Non-Instrumental Majors (2)

Development of functional ability in wind, string, brass and percussion instruments. Instrumental music majors may not receive credit for this course. (S)

MUS 19275 - Vocal Methods For Non-Vocal Majors (2)

This course is designed to give non-vocal majors a pedagogical overview of the process, assessment, and evaluation for singing and teaching others to sing. A study of vocal faults and their diagnosis will be a part of the curriculum. A survey of appropriate repertoire for beginning and intermediate singers will be included. The International Phonetic Alphabet (IPA) will be introduced and studied through practical applications to vocal repertoire. (S)

MUS 19391 - Elements of Conducting (2)

Baton technique and the elements of interpretation in conducting choral and instrumental groups. (F)

MUS 19402 - Music Practicum (1)

Supervised classroom/rehearsal observation and teaching in various music activities. Enrollment by faculty selection. May be repeated with a change in topic and/or new content but only two hours may count as an elective toward an undergraduate degree.

MUS 19420 - Choral Conducting (2)

A refinement and augmentation of the choral foundation provided in MUS 19391. Prerequisite: MUS 19391. (S)

MUS 19421 - Instrumental Conducting (2)

A refinement and augmentation of the foundation provided in MUS 19391, with specific attention to instrumental (orchestra and band) conducting. Prerequisite: MUS 19391. (S)

MUS 19481 - Elementary General Music Methods (2)

A study of methods and materials for teaching general music in the elementary school. Music majors or minors only. Prerequisite: MUS 19180. (S)

MUS 19482 - Methods in Secondary School Instrumental Music (2)

Problems peculiar to middle school and senior high school instrumental programs. Analysis of materials and methods including instructional observation. Music majors only. Prerequisites: MUS 19231 Class Piano 3 (or 3 semesters of applied keyboard study) with a grade of C or better and admission to teacher education. Meets requirements for special secondary methods in education sequence. (F)

MUS 19484 - Methods in Secondary School Vocal Music (2)

Problems peculiar to middle school and senior high school choral programs. Analysis of materials and methods including instructional observation. Music majors only. Prerequisites: MUS 19231 Class Piano 3 (or 3 semesters of applied keyboard study) with a grade of C or better and admission to teacher education. Meets requirements for special secondary methods in education sequence. (F)

MUS 19501 - Elementary Music Education: Special Topics (1 to 3)

A study of selected materials and/or methods for music instruction in the elementary school with particular attention being given to recent developments and current issues. Repeatable for additional experience, new material, and progression of study.

MUS 19502 - Junior High Music Education: Special Topics (1 to 3)

A study of selected methods and/or materials for music instruction in the junior high or middle school with particular attention being given to recent developments and current issues. Repeatable for additional experience, new material and progression of study.

MUS 19503 - Senior High Music Education: Special Topics (1 to 3)

A study of selected materials and/or methods for music instruction in the senior high school with particular attention being given to recent developments and current issues. Repeatable for additional experience, new material, and progression of study.

MUS 19551 - Principles of Singing (2)

Exploration of historical and contemporary theories of vocal pedagogy, including practical application and examination of current sources on related topics, such as interpretation and vocal diction.

MUS 19582 - Advanced Instrumental Conducting (2)

An application of conducting practices in interpretation, style, and performance through the study of representative works for concert band, wind ensemble, and orchestra. Prerequisite: Admittance to Teacher Education.

MUS 19583 - Advanced Choral Conducting (2)

Study of representative large works through conducting practices in interpretation, style, and performance.

MUS 19587 - Literature for Elementary and Middle Schools (2)

A study of current course materials and methods for elementary and middle school music classrooms.

MUS 19590 - Early Childhood Music (2)

Designed to assist the early childhood teacher in developing techniques for teaching music in pre-school and early elementary levels.

MUS 19591 - Marching Band Techniques (2)

A study of the fundamentals of marching maneuvers, parade routines, computer-assisted drill design, and the administration and organization of a successful marching band program.

MUS 19592 - Secondary General Music Methods (2)

A study of methods and materials for teaching general music in middle school and high school. Music majors or minors only. Prerequisite: MUS 19481. (F)

MUS 19593 - Choral Literature for Secondary Schools (2)

A survey of choral literature including the music of all periods, both sacred and secular, and a study of the style and interpretation of music from each period. (F)

MUS 19594 - Instrumental Literature for Secondary Schools (2)

A historical and stylistic survey of music for the wind band with particular emphasis on compositions appropriate for secondary school ensembles.

MUS 19595 - Contemporary Issues in Instrumental Music (2)

A study of current trends, standards, materials and practices in administering, organizing and maintaining a successful instrumental music program.

MUS 19596 - Contemporary Issues in Vocal Music (2)

Current practices in administration and organization of school vocal programs.

MUS 19597 - Comparative Methods in Elementary Music (2)

A survey of today's methods (Orff, Kodaly, Dalcroze, Gordon, ETM, etc.) for teaching music in the elementary school.

Theory

MUS 19103 - Foundations of Music Theory (2)

An introduction to traditional pitch and rhythmic notation as well as the study of basic materials such as tempo, meter, key signatures, intervals, scales and simple triad spellings. This course does not satisfy The Northwest Core requirement in Fine Arts nor count as a music elective toward any major or minor in the Department of Music. (F) (MOTR MUSC 101)

MUS 19171 - Beginning Sight Singing and Ear Training (1)

Development of skills in dictation, sight singing, notation and the aural comprehension of music. Prerequisite: MUS 19103 or score of 70 on Theory Placement Examination. (S)

MUS 19172 - Intermediate Sight Singing and Ear Training (1)

A continuation of MUS 19171 including chromatic relationships, more difficult rhythmic grouping and two-part music. Prerequisite: MUS 19171. (F)

MUS 19173 - Theory of Music (3)

An intensive course in the fundamentals of music including scales, modes, intervals, tonality and the four types of triads. Prerequisite: MUS 19103 or score of 70 on Theory Placement Examination. (S)

MUS 19174 - Theory of Music (3)

Introduction to harmony and part-writing, figured bass, the principal triads in root position and the dominant seventh in root position. Prerequisite: MUS 19173. (F)

MUS 19271 - Advanced Sight Singing and Ear Training I (1)

A continuation of MUS 19172 including more difficult intervallic, melodic, harmonic and rhythmic problems. Prerequisite: MUS 19172. (S)

MUS 19272 - Advanced Sight Singing and Ear Training II (1)

A continuation of MUS 19271 progressing to the most difficult intervallic, melodic, harmonic and rhythmic problems. Prerequisite: MUS 19271. (F)

MUS 19273 - Theory of Music (3)

A continuation of MUS 19174 including figured bass, triads, and seventh chords in all inversions, nonharmonic tones, secondary dominants and secondary leading tone chords and the neapolitan sixth chord. Prerequisite: MUS 19174. (S)

MUS 19274 - Theory of Music (3)

Completion of the study of harmony including advanced progression, enharmonic modulations and augmented sixth chords. Study of late romantic trends and impressionism. Introduction to dodecaphonic techniques. Prerequisite: MUS 19273. (F)

MUS 19472 - Musical Form and Analysis (2)

Analytical study of the musical forms employed in the vocal and instrumental compositions of Bach, Mozart, Beethoven, Wagner and other master composers. Prerequisite: MUS 19274.

MUS 19493 - Choral Composition and Arranging (2)

Principles and practices of composing and arranging for choirs and small vocal ensembles. Prerequisites: MUS 19272 and MUS 19274. (S)

MUS 19494 - Instrumental Composition and Arranging (2)

Principles and practices of composing and arranging for school orchestras, bands, and other instrumental ensembles. Prerequisites: MUS 19173, MUS 19174, MUS 19273, and two of the following: MUS 19220, MUS 19221, MUS 19240, MUS 19260. (S)

NANO - Nanoscale Science

NANO 48314 - Nanoscale Science I (4)

A course dedicated to the interface of chemistry and physics at the nanometer scale. Topics will focus on the relationship between nanoscale structure and macroscopic properties, nanoscale instrumentation and characterization, creation of materials and devices, and the role and perception of nanotechnology in society. The course consists of four hours of lecture and hands-on studio activities per week. Prerequisites: MATH 17120, MATH 17121, CHEM 24114 and CHEM 24115, CHEM 24116 and CHEM 24117, PHYS 25120 and PHYS 25121, PHYS 25230 and PHYS 25231, CHEM 24342, and junior standing (F, even years)

NANO 48315 - Nanoscale Science II (4)

A course dedicated to the interface of biology and physics at the nanometer scale. Topics will focus on the application of physical concepts to biological systems in the developing field of nanobiotechnology. Prerequisites: MATH 17120, BIOL 04310, PHYS 25120 and PHYS 25121, PHYS 25230 and PHYS 25231, and junior standing. (S, odd years)

NURS - Nursing

NURS 01301 - Theories and Models of Nursing (3)

This course examines the theoretical foundation of the professional nursing practice. Emphasis is placed on exploration of various nursing theories, models, and philosophies that can aid the professional nurse in effectively promoting health and making sound nursing decisions. Focus will be on the role expectation(s) for theoretical evidence-based professional nursing practice. Concepts and models for professional nursing practice are presented. Prerequisite: Acceptance to the RN to BSN program.

NURS 01302 - Professional Role Transitions (3)

This course challenges the RN to BSN student to broaden their perspectives of their professional nursing role. Emphasis is placed on the student's critical thinking skills and the importance of their personal and professional growth throughout this educational journey. Prerequisite: Acceptance to the RN to BSN program.

NURS 01303 - Nursing Law and Ethics (3)

The course will examine and evaluate personal and ethical factors that influence a professional nursing career. Emphasis is placed on the legalities and ethical situations facing the nursing profession.

NURS 01311 - Health Care Delivery Systems (3)

This course focuses on the health care delivery system, how those systems affect nursing practice and the consumers of health care. Emphasis is placed on quality, safety, policy, insurance issues, technological resources, budgeting and the future of the nursing profession. This course seeks to enhance the administration and effectiveness of health care services.

NURS 01401 - Leadership and Management in Nursing (4)

This course focuses on the importance of leadership and management for the BSN level nurse. Emphasis is placed on the role of the nurse leader in various areas of health care. This course is designed to provide the professional nurse with the essential information and key skills that nurses must learn to succeed in today's health care environment. Includes an experiential learning experience.

NURS 01411 - Health Assessment (4)

This course reviews a systematic approach to the assessment of individuals and groups of all ages. Emphasis is placed on the pathophysiology and nutrition impact on each system, the cultural needs of clients, analysis and synthesis of data to differentiate between normal and abnormal states of health, health risk prevention strategies, and health promotion. Students will apply this knowledge to an experiential learning experience. Includes an experiential learning experience.

NURS 01421 - Community Nursing (4)

This course applies nursing concepts to the community environment. This course explores community epidemiology in relation to the environment. Emphasis is placed on the identification of resources that facilitate health promotion and illness prevention.

NURS 01454 - Nursing Informatics (3)

This course identifies the importance of information technology in nursing practice advancements and the influence those concepts have on health care outcomes. Emphasis is placed on learning how to access information technology

records and identifying current and future technological needs within the nursing field.

NURS 01481 - Evidence-Based Nursing Practice (3)

This course introduces evidence-based nursing practice and research methods used by professional nurses. Emphasis is placed on the evaluation of nursing research studies and the need for ethical research. Students will apply their knowledge of research to an evidence-based practice initiative.

NUTR - Foods and Nutrition

NUTR 47230 - Food Science (4)

A laboratory course with emphasis on the study of scientific principles of food preparation and on criteria for recognition and evaluation of standard products. Two hours of lecture and 4 hours of lab per week.

NUTR 47232 - Food Service Management (3)

An introductory food service course emphasizing food service sanitation and requiring application of principles of food buying and food preparation to menu planning, meal preparation and service. Three hours lecture. Prerequisite: NUTR 47230 with minimum grade of C or by permission.

NUTR 47234 - Nutrition and Diet Behavior (3)

An entry-level nutrition course which provides basic nutrition information and the science behind nutrition and diet behavior. Coursework will include a self-assessment of nutrient intake utilizing computer analysis. (F, S)

NUTR 47240 - Introduction to Dietetics (2)

Exploration of the dietetics profession. Introduces the professional organization and structure. Covers credentialing and the Academy of Nutrition and Dietetics Code of Ethics, scope of dietetics practice, Northwest dietetics handbook and requirements to obtain verification statement. Clarifying the roles and requirements of different nutrition professionals and the interdisciplinary relationships in various practice settings.

NUTR 47332 - Quantity Food Preparation (2)

A lecture course in basic quantity food preparation with emphasis on principles of preparation, identification of quality

products, standardized recipes, safety and sanitation, care and supervision of food service equipment, organization of work space, work simplification and preparation of food. Prerequisite: NUTR 47232 Food Service Management.

NUTR 47333 - Quantity Food Preparation Laboratory (2)

Provides laboratory experience in quantity food preparation. Four hours of lab per week.

NUTR 47334 - Lifespan Nutrition (3)

Fundamentals of nutrition and disease states throughout the lifespan will be the focus of the course with information also provided on community programs that impact each stage of the lifespan. Fundamentals of nutrition care delivery in community programs. This course explores nutrition programs that serve various segments of the population and the relationships of these programs to nutrition policy at the local, national, and international levels. The specific needs of population groups (infants, children, women, and the elderly) are considered and questions of food security are investigated. Three hours lecture. Prerequisite: NUTR 47234.

NUTR 47335 - Community Nutrition (3)

Fundamentals of nutrition care delivery in community programs. This course explores nutrition programs that serve various segments of the population and the relationships of these programs to nutrition policy at the local, national, and international levels. The specific needs of population groups (infants, children, women, and the elderly) are considered and questions of food security are investigated. Students will plan and execute a social marketing project and experiences in community nutrition programs will be required. Prerequisite: NUTR 47234.

NUTR 47338 - Practicum in Dietetics (1 to 3)

Supervised experience in various types of commercial food services such as short order, carry-out service, tray service in rest home and hospitals, cafeterias, restaurants, and catering services. A job analysis will be an integral part of the work experience. Prerequisites: NUTR 47230 and NUTR 47232.

NUTR 47431 - Macronutrients (3)

Physiological and chemical basis for the macronutrient and food needs of the

individual and the application of basic principles to problems of meeting the macronutrient needs of the individual. Prerequisites: CHEM 24242 and CHEM 24243.

NUTR 47432 - Micronutrients (3)

Physiological and chemical basis for the micronutrient and food needs of the individual, and the application of basic principles of meeting the micronutrient needs of the individual. Prerequisites: CHEM 24242 and CHEM 24243, CHEM 24362 and CHEM 24363.

NUTR 47433 - Medical Nutrition Therapy I (4)

This course is designed to develop skills in the use of clinical nutrition in the prevention and treatment of diet-related health problems. This course includes the assessment of nutritional status of individuals, and medical nutrition therapy for various disease states such as disorders of the upper and lower GI, CVD, Hypertension, Type 2 Diabetes, nutritional concerns during and after pregnancy, complete overview of nutritional support (enteral and parenteral nutrition and tube feeding), weight management, disordered eating. This course will also allow the student to grow in their ability to use the Nutrition Care Process, ADIME and SOAP charting. Prerequisites: NUTR 47234.

NUTR 47434 - Medical Nutrition Therapy II (4)

The science of nutrition as it applies to individuals with atypical metabolic conditions and/or pathological conditions. Students apply the biochemical, physiological, and nutritional basis of medical nutrition therapy concepts through completion of case studies, product analyses, and calculations for enteral and parenteral nutrition support. Four hours lecture and two hours lab per week. Prerequisites: NUTR 47234 and NUTR 47433.

NUTR 47435 - Pharmacology for the Dietitian (3)

This course focuses on the drug and nutrient interactions of common medications. Basic pharmacology concepts, nutrition and metabolism, drug interactions in nutrition support, dietary counseling to prevent food-drug interactions, and the role of ergogenic aids in sports nutrition will all be covered. This course is designed for dietitians. Prerequisite: NUTR 47433.

NUTR 47436 - Medical Nutrition Counseling (3)

The basic theories and techniques of counseling as related to medical nutrition therapy. Students will counsel individuals on nutrition. Prerequisite: NUTR 47432.

NUTR 47438 - Problems in Nutrition (1 to 3)

Opportunity to investigate, with instructor's guidance, a problem identified in consultation with advisor. Available to second semester juniors and seniors with a 2.70 or above GPA who have completed course offerings in this area.

NUTR 47439 - Field Experience in Food Service Management (1 to 6)

Advanced work assignments in food service management in business of student's choice. By permission of instructor.

NUTR 47440 - Senior Seminar in Dietetics (2)

Procedures and application process for obtaining an internship and professional status through dietetic registration and licensure. Professional ethics and legal responsibilities. Strategies for integration of current issues into dietetic practice. Prerequisite: admission to the Dietetics Program and NUTR 47234. Course must be taken the last fall semester before expected graduation.

PHIL - Philosophy

PHIL 39171 - Introduction to Philosophy (3)

Basic problems and ideas encountered in the moral and intellectual life of humankind are analyzed in a systematic, rather than an historical, manner. Attention is devoted to the philosophies and theories of knowledge, metaphysics, religion, morals, politics and science. (F, S) (MOTR PHIL 100)

PHIL 39275 - Professional Ethics (3)

An examination of the fundamental concepts, principles and major theoretical approaches of ethics used to determine the moral demands of human conduct with applications to ethical questions of contemporary interests. This course focuses on professional ethics. (F, S) (MOTR PHIL 102)

PHIL 39276 - Biomedical Ethics (3)

An examination of the fundamental concepts, principles and major theoretical approaches of ethics used to determine the

moral demands of human conduct with applications to ethical questions of contemporary concern in medical practice and research. (F, S, SS) (MOTR PHIL 102P)

PHIL 39277 - Social Justice (3)

A survey of ethical-political dimensions of social justice as they have appeared in Western culture. Selective applications of these principles to contemporary ethical-political issues such as racism, sexism, classism, ageism, and/or other issues. (F)

PHSC - Physical Science

PHSC 40102 - The Physical Sciences: Integrated Approach (3)

This is an introductory course that uses an inquiry approach to help students gain an understanding of the scientific process and how science relates to the real world. This is accomplished through the study of selected topics from the fields of physics, chemistry, Earth science, and astronomy. Students will be asked to use problem solving and higher order thinking skills in order to apply the concepts they have learned. A knowledge of and the ability to use simple algebra is necessary. This course is primarily designed to meet elementary and middle school teacher certification content, but it will also satisfy the physical science Northwest Core requirement. Three hours of lecture and discussion per week. Must be taken concurrently with PHSC 40103. (F, S, SS) (MOTR PHYS 110L)

PHSC 40103 - Physical Science Laboratory: Integrating Inquiry (1)

This is a laboratory course that uses an inquiry approach to help students gain an understanding of the scientific process. This is accomplished through the study of selected topics from the fields of physics, chemistry, and Earth science. Students will be asked to use problem solving and higher order thinking skills in order to apply the concepts they have learned. This course is primarily designed to meet elementary and middle school teacher certification content, but it will also satisfy the physical science Northwest Core requirement. Two hours per week. Must be taken concurrently with PHSC 40102. (F, S, SS) (MOTR PHYS 110L)

PHSC 40106 - Computational Methods in Science (3)

Methods used in the computational analysis, interpretation, and presentation of data generated from scientific inquiry. Topics

covered will encompass, but will not be limited to, spreadsheets, graphical, and statistical analysis of data, concept mapping, use of databases, scientific writing, and symbolic calculation techniques. Recommend 2 years of High School Algebra or competence through College Algebra (MATH 17118). (S, SS)

PHSC 40122 - Descriptive Astronomy (3)

This is an introductory course in astronomy. Topics covered involve the descriptive study of the physical universe including the earth-moon system, the solar system, general stellar system, stellar structure and evolution, galactic systems and cosmological models. The laboratory work emphasizes basic techniques and instruments used in observational astronomy. Three hours of lecture per week. Must be taken concurrently with PHSC 40123. (F, S) (MOTR ASTR 100L)

PHSC 40123 - Descriptive Astronomy Laboratory (1)

This laboratory meets two hours each week and must be taken concurrently with PHSC 40122. (F, S) (MOTR ASTR 100L)

PHSC 40299 - Independent Study in the Physical Sciences (1 to 2)

Independent study in areas of physical sciences not covered in the introductory courses. May be elected successively in one or two hours credit per semester to a maximum credit of four hours. Can be repeated for new topics. Prerequisites: Introductory course in physical science and permission of instructor. (F, S)

PHSC 40389 - Practicum in Physical Science (1 to 2)

This practicum provides students with experience in assisting faculty members with instruction of physical science in classes and laboratories. Can be repeated for additional mastery. Prerequisite: Permission of instructor. (F, S)

PHYS - Physics

PHYS 25110 - General Physics I (3)

This is a laboratory course in general physics designed to provide the necessary background in physics to fill Northwest Core requirements and to fill general physics needs for pre-professional programs. Major topics covered are structure and properties of matter, motion, mechanics, work, energy, momentum, elasticity, waves, temperature

and heat. Three hours of lecture and discussion each week. Must be taken concurrently with PHYS 25111. Prerequisite: MATH 17116 or MATH 17117 or MATH 17118 or MATH 17120, or permission of instructor. (F, SS) (MOTR PHYS 150L)

PHYS 25111 - General Physics I Laboratory (1)

This laboratory meets two hours each week and must be taken concurrently with PHYS 25110. (F, SS) (MOTR PHYS 150L)

PHYS 25112 - General Physics II (3)

This is a laboratory course in general physics designed to provide the necessary background in physics to fill general physics needs for pre-professional programs. Major topics covered are electricity, electronics, optics, radioactivity, and atomic and nuclear structure. Three hours of lecture and discussion each week. Must be taken concurrently with PHYS 25113. Prerequisite: MATH 17116 or MATH 17117 or MATH 17118 or MATH 17120, or permission of instructor. (S, SS)

PHYS 25113 - General Physics II Laboratory (1)

This laboratory meets a minimum of two hours each week and must be taken concurrently with PHYS 25112. (S, SS)

PHYS 25120 - Fundamentals of Classical Physics I (4)

An introduction to classical kinematics, mechanics gravitation, energy, momentum, waves, heat and thermodynamics. Recommended for majors in science, mathematics and engineering. Four hours of lecture and discussion per week. Must be taken concurrently with PHYS 25121. Prerequisite: MATH 17120 or concurrently. (F) (MOTR PHYS 200L)

PHYS 25121 - Fundamentals of Classical Physics I Laboratory (1)

The laboratory meets a minimum of two hours each week and must be taken concurrently with PHYS 25120. (F) (MOTR PHYS 200L)

PHYS 25211 - Special Topics in Physics (1 to 3)

An in-depth study of special physics topics. Can be repeated with different topics.

PHYS 25230 - Fundamentals of Classical Physics II (4)

A continuation of PHYS 25120. Major topics include classical electricity, magnetism, electromagnetic waves, light and geometrical and physical optics. Four hours of lecture and discussion each week. Prerequisites: PHYS 25120 and PHYS 25121, MATH 17121 or concurrently. (S)

PHYS 25231 - Fundamentals of Classical Physics II Laboratory (1)

This laboratory meets two hours each week and must be taken concurrently with PHYS 25230. (S)

PHYS 25322 - Statics (3)

Analysis of two- and three-dimensional force systems. Application of equilibrium principles to simple trusses, frames and machines. Additional topics chosen from distributed forces, centroids, friction and virtual work. Prerequisites: PHYS 25120 and PHYS 25121, MATH 17121 or concurrently.

PHYS 25325 - Classical Mechanics I (3)

An introduction to classical mechanics. General topics include elements of Newtonian mechanics, motion of a particle in one dimension, motion of a particle in two and three dimensions, the motion of a system of particles, rigid bodies and gravitation. Three hours of lecture and discussion each week. Must be taken concurrently with PHYS 25326. Prerequisites: PHYS 25120 and PHYS 25121, and MATH 17121, or concurrently.

PHYS 25326 - Classical Mechanics I Laboratory (1)

This computer laboratory meets for a minimum of two hours each week. It is an introduction to computational methods as applied to solving differential and integral equations in mechanics. Must be taken concurrently with PHYS 25325. Prerequisites: PHYS 25120 and PHYS 25121, and MATH 17121, or concurrently.

PHYS 25330 - Electricity and Magnetism I (3)

Classical electricity and magnetism including Coulomb's law, Gauss' law, Poisson's equation, charge-field potential differential and integral relationships, Biot-Savart law, Ampere's law, Lenz's law and vector properties of electric and magnetic fields. Three hours of lecture and discussion per week. Prerequisites: PHYS 25230 and PHYS 25231, MATH 17321.

PHYS 25332 - Electronics (3)

A study of the theory and applications of analog and digital electronics. Topics include transistors, operational amplifiers, TTL and CMOS logic gates and applications of these devices in various electronic circuits. Three hours of lecture and discussion each week. Must be taken concurrently with PHYS 25333. Prerequisite: PHYS 25230 and PHYS 25231. (F, odd years)

PHYS 25333 - Electronics Laboratory (1)

This laboratory meets a minimum of two hours each week and must be taken concurrently with PHYS 25332. (F, odd years)

PHYS 25350 - Introduction to Quantum Mechanics (3)

An introduction to the subjects of photo-electricity, quantum theory, atomic and molecular structure, solid state and statistical physics. Three hours of lecture and discussion per week. Prerequisites: PHYS 25230 and PHYS 25231. (F, odd years)

PHYS 25352 - Modern Physics (3)

An introduction to the subjects of special and general relativity, nuclear physics, radioactivity, and nuclear reactions, astrophysics and cosmology. Three hours of lecture and discussion each week. Prerequisites: PHYS 25230 and PHYS 25231. (S, even years)

PHYS 25360 - Quantum Mechanics (3)

The philosophy and methods of selected topics from quantum mechanics. Topics include Schrodinger's equation, simple barrier problems, angular momentum, linear oscillator, hydrogen atom and elementary perturbation. Prerequisites: PHYS 25350 or CHEM 24532 and CHEM 24533, MATH 17321 or concurrently.

PHYS 25420 - Advanced Physics Laboratory (1)

Laboratory will be a series of in-depth, investigative activities that will cover a range of principles in Physics. The laboratory will meet at least two hours each week. This course is repeatable for additional experience, new material, and progression of study. Maximum of 4 credit hours allowed. Prerequisites: PHYS 25230 and PHYS 25231 and MATH 17121.

PHYS 25430 - Optics (3)

A study of modern optics, including reflection, refraction, interference, diffraction, polarization, lasers, holography, non-linear optics, optical detectors and

modern applications. Three hours of lecture and discussion each week. Prerequisite: MATH 17121.

PHYS 25450 - Computational Physics (3)

Introduction to computational methods used to solve problems in physics. Numerical techniques for the analysis of experimental data and the solution of ordinary and partial differential equations will be studied. These numerical methods will be applied to the solution of a variety of problems that arise in classical physics. Visualization and simulation techniques will be studied and the power of these methods to enhance physical understanding will be emphasized. Prerequisites: PHYS 25230 and PHYS 25231 and CSIS 44141. (S, odd years)

PHYS 25479 - Undergraduate Research (1 to 3)

An independent research project done under supervision of a faculty member. The results of the research project are to be summarized in a paper or presentation at the discretion of the faculty member. Can be repeated for new experience. Prerequisite: Permission of instructor. (F, S, SS)

PHYS 25489 - Physics Practicum (1 to 2)

This practicum provides physics majors with experience in using, repairing and building equipment as well as experience in assisting physics faculty in instruction in classes and laboratories. Permission of instructor necessary. Physics minors only. (F, S)

PHYS 25499 - Special Investigations in Physics (1 to 3)

Special projects and special experiments in physics which are not included in the regular courses. May be elected successively in one or more hours of credit per semester. Can be repeated for new experience. Permission of instructor necessary. (F, S)

PHYS 25599 - Selected Advanced Topics (1 to 4)

Special investigations of experimental or theoretical areas which are not included in the regular courses. May be elected in successive semesters. Can be repeated with different topics. Prerequisite: Permission of instructor. (F, S, SS)

POLS - Political Science

POLS 34102 - Introduction to American Government and Politics (3)

Attention is directed toward the fundamental principles, institutions, and problems of American Constitutional Government-national, state, and local. Particular stress is given to the Missouri Constitution, as well as to national Constitutional growth. (F, S, SS) (MOTR POSC 101)

POLS 34105 - The African World (3)

An introduction into Africa's rich histories and cultures, as well as its complex social, economic and political realities. (F, alt. years)

POLS 34205 - Introduction to Criminal Justice (3)

A study of the agencies and processes involved in the criminal justice system: legislature, the police, the prosecutor, the public defender, the courts and corrections. (F, S)

POLS 34210 - Exploring Politics (3)

This course is an introduction to the study of political science. Students will discover how to study politics in a scientific way. Students will learn how to use various quantitative and qualitative research methods to answer questions about politics. (F, S)

POLS 34215 - Introduction to Political Theory (3)

This course provides students with an introduction to political thought. The course will discuss the varied conceptions of justice, human nature, rulers, and authority, among many other topics and principles. It will then relate those principles to the political theories and competing ideological approaches that emerge from them. (F)

POLS 34301 - Elections, Parties, and Interest Groups (3)

This course will examine, compare and contrast the development, organization and function of both political parties and interest groups in American politics within the context of elections at all levels of government. (F, even years)

POLS 34302 - The American Presidency (3)

This course will encompass the political, legal, organizational and policy-making aspects of the American presidency. (S, even years)

POLS 34303 - The American Congress (3)

This course will examine the political and institutional development of Congress. The

study will span both the formal legal powers and the internal dynamics of this major national policy-making institution. (S, odd years)

POLS 34307 - International Relations (3)

An introduction to analysis and the conduct of international affairs, incorporating situations and issues relevant in the modern world. (S)

POLS 34308 - Public Policy (3)

A course in American policy-making processes and problems of policy development at the national level. The focus is on the analysis of current public policies and their consequences. (S)

POLS 34310 - Comparative Politics (3)

A study of the various types of political and governmental structures operative in the contemporary world as well as the various types of political functions performed within national systems. Emphasis is placed on the political experience within more than one nation-state for the purpose of making systematic comparisons, using comparative methodological and theoretical approaches from the discipline. (F) (MOTR POSC 202)

POLS 34311 - Practicum in Political Science (1 to 2)

A course designed to provide structure and academic focus to non-traditional work by students within the curricular structure of the department. Activities given credit under this course must be relevant to the student course of study, approved by the chairperson and mentored by a faculty member. A student may accumulate no more than two hours of credit for this course. Repeatable for new experiences.

POLS 34321 - American Federalism (3)

This course is an investigation and analysis of the American federal system, including its constitutional, political, and administrative characteristics. An integral portion of the course is a study of the subnational governments - state, city and county - that help to comprise the federal system. (F, S)

POLS 34332 - Principles of Public Administration (3)

A study of decision-making processes in public organizations. (F)

POLS 34338 - Rights of the Accused (3)

Examines the American judicial system as applied to individuals accused of crimes against the state. (F, S)

POLS 34340 - Law and Politics (3)

An introduction to the American legal system, its functions, constituting elements, and role in our democratic system. (S, even years)

POLS 34364 - Criminal Law and Procedure (3)

A study of the statutes, administrative rules and judicial processes that frame the criminal justice system, with particular focus on the State of Missouri. The course will cover substantive criminal law, processing of the accused, and the unique characteristics of juvenile proceedings. Prerequisite: POLS 34205. (S, alt. years)

POLS 34403 - The World of Political Ideas (3)

This course will introduce selected political ideas from the Ancient Greeks to modern times. Ideas covered will represent the development of Western Political Philosophy over time, as well as its comparison with selected Eastern political ideas. Prerequisite: POLS 34215 or permission of instructor. (F, even years)

POLS 34405 - American Political Thought (3)

Examines key themes in the development of American Political Thought from the Colonial Era to the present. Among other topics, the course addresses the relationship between religion and politics, rights, revolution, national identity, markets and morals, and the role of America in the world. Prerequisite: POLS 34215 or permission of instructor. (S, odd years)

POLS 34412 - Race, Ethnicity, and Politics (3)

This course is an examination of the political status of racial and ethnic minorities in the United States. The focus will be on how race and ethnicity affect rights and access to government, as well as the ways in which it affects political attitudes, participation, and representation. During this course, students will learn how to understand these issues and how to propose policies and solutions based on a scientific approach to questions on race, representation, and racial disparities. The course will encompass a seminar format, with emphasis on reading,

discussion, and critical thinking exercises. (F, odd years)

POLS 34421 - International Conflict Resolution (3)

This course focuses on the principles of international relations, illustrated through the use of international conflict resolution. (S, odd years) (MOTR POSC 201)

POLS 34422 - Revolution and Social Movements (3)

The course is a comparative study of the causes and outcomes of world socio-political movements and revolutions affecting governmental change and development since 1500. Emphasis is placed on roles played by elites and masses in specific actions and society's evolving place in government formation. Cases examined include English, American, French, Latin American, Russian, and Chinese Revolutions, as well as current developments in national regimes. (F, even years)

POLS 34435 - Public Management (3)

An emphasis on public policy in terms of personnel and budget administration. This course is divided into two distinct but complimentary parts. The first part of the course will focus on personnel administration in the public sector, while the second part of the course will focus on government budgeting. Case studies and exercises will be used in both parts of the course in order to gain an understanding of the key principles, concepts and methods associated with both of these areas of government. (S, even years)

POLS 34436 - Constitutional Law (3)

Examines the Supreme Court's role in dealing with basic problems of constitutional law. Topics covered include the powers of the three branches of the national government, federal-state power relations, Congressional power over commerce, equal protection of the laws, and the conduct of elections. (F, even years)

POLS 34438 - Civil Liberties (3)

Investigates the legal and political context influencing the exercise of fundamental rights. It is a study of the lines that must be drawn by a democratic society as it attempts to reconcile individual freedom with the rights of the community. In so doing it examines the way in which the U.S. Constitution, as judicially interpreted, has shaped the American concepts of civil

liberties (outside the realm of criminal law) and civil rights. (S, odd years)

POLS 34459 - Justice: Theories and Applications (3)

A comparative analysis of theories of justice and how they have been applied in the past and are currently affecting criminal justice systems. Special attention will be placed upon examination of restorative justice and use of the death penalty. Prerequisite: Either POLS 34205 or POLS 34215. (S)

POLS 34462 - Comparative Political Systems and Behaviors (3)

This course examines specific aspects of political behavior, institutions, processes, ideas, and values present in more than one country. Topics will vary each semester the course is offered. Repeatable for new experiences.

POLS 34465 - Substantive Policy (3)

This course examines a substantive area of public policy. Students will have the opportunity to apply theories relating to the policy process. A focus on current political issues as related to policy development coupled with the ability to analyze past and future policy options will be emphasized. Topics will vary each semester the course is offered. Repeatable for new experiences.

POLS 34492 - Research in Diversity, Equity, and Inclusion Studies (3)

This course comprises completion of a directed research project focused on diversity, equity, or inclusion issues. The student will be required to produce reports or papers in conjunction with their selected project.

POLS 34493 - Internship in Diversity, Equity, and Inclusion Studies (3)

This course comprises completion of a supervised internship in an approved agency, established organization, or private sector business which allows the student to engage in issues concerning equity, diversity, or inclusion. The student will be required to produce reports or papers in conjunction with their selected project. (F, S, SS)

POLS 34495 - Internship in Political Science (1 to 6)

A supervised internship in an approved governmental agency or private sector business - will include a formal evaluation

and written reports by the student. Credit hours will vary according to the nature and duration of the internship. Repeatable for up to 6 hours of Political Science electives. (F, S, SS)

POLS 34496 - Internship in Political Science-non-major/minor credit (1 to 6)

A supervised internship in an approved governmental agency or private sector business - will include a formal evaluation and written reports by the student. Credit hours will vary according to the nature and duration of the internship. Repeatable for up to 6 hours of general electives, not applied to a Political Science degree program. (F, S, SS)

POLS 34497 - Research Seminar in Political Science (3)

This course serves as a capstone experience for majors in political science, allowing students to demonstrate proficiency in political methods, theories, and sub-disciplines through an exploration of seminar topic(s) and individual research. The political content of this course will vary when offered. Repeatable for new experiences up to six credit hours. Prerequisites: POLS 34102 and senior standing or permission of the instructor. (F, S)

POLS 34498 - Special Topics (1 to 3)

A variable topics course designed to meet curricular and student needs not fulfilled by the rest of the political science curriculum. Content of the course will be described in the title. The course may be repeated for new topics to earn no more than six credit hours in total, subject to the approval of the instructor.

POLS 34499 - Independent Study in Political Science (1 to 3)

Offered only by special arrangement with the consent of the instructor involved and the department chairperson. Repeatable for new topics. (F, S)

PSYC - Psychology

PSYC 08100 - Special Offering (1 to 4)

PSYC 08103 - General Psychology (3)

A survey course designed to introduce students to the foundation of human and animal behavior. Students will study the content and the processes used by behavioral scientists to discover, describe, explain and predict human behavior. The course provides an environment in which

students learn how to critically evaluate the biological, social/cultural and psychological variables that contribute to behavior and to reflect on those to develop an informed sense of self and others. (F, S, SS) (MOTR PSYC 100)

PSYC 08200 - Special Offering (1 to 4)

PSYC 08201 - Psychology in Films (3)

Designed to allow students to apply the principles learned in general psychology to popular films. Each week, the class will watch one film and participate in a discussion of that film. Films will be chosen to present various models and views of a wide variety of psychological principles; discussion will center on the origins and implications of those views. Prerequisite: PSYC 08103.

PSYC 08204 - Introduction to Human Services (3)

This course introduces students to the interdisciplinary approach to the understanding of human services in a multicultural society. Topics include personal/professional characteristics, roles of the human service professional, history of the profession, diverse populations, community resources, client-helper relationship, the helping process, ethical standards, and major theoretical approaches to service delivery. Components of diversity and cultural competence are interwoven within the curriculum and methods of evaluation. (F, S)

PSYC 08212 - Personal Adjustment (3)

Involves clarification of the assumptions, concepts and problems associated with personal adjustment and the field of mental health. It will include some history, definitions of mental health and mental health models. Emphasis is on preventive mental health, personal adjustment and community-based treatment facilities. (S)

PSYC 08223 - Abnormal Psychology (3)

Studies behavior patterns considered by society to be maladaptive. The emphasis is on diagnostic categories, relating diagnostic categories to symptom patterns and studying the etiology of symptom patterns. Therapeutic approaches are also presented. Prerequisite: PSYC 08103 or PSYC 08299. (F, S, SS)

PSYC 08234 - Research Literacy (3)

Information is everywhere, but accurate knowledge can be challenging to find. This class is designed to help students understand

research methods and the related principles so they can evaluate information sources, interpret research findings, and draw evidence-based conclusions about a range of topics. Prerequisite: PSYC 08103.

PSYC 08253 - Theories of Psychology (3)

This course is an in-depth survey of the philosophical and historical foundations of psychology, discussing the influence of important people, ideas, and schools of thought within their social, cultural, political, and economic context. With an emphasis on critically thinking about historical principles and ideologies, the course will include historically engaging experiences as well as philosophical and critical perspectives that led to these approaches and ways of thinking. Prerequisite: PSYC 08103. (F, S)

PSYC 08260 - Career Paths and Preparations (3)

This course provides an examination of the various career paths within psychology. Students will have the opportunity to explore their skills, interests, and values while developing a tentative career plan. Emphasis is placed on preparation for graduate study as well as career options within psychology. Prerequisite: PSYC 08103 with a minimum grade of C.

PSYC 08299 - Educational Psychology (3)

Emphasizes understanding and application of psychological principles that affect classroom instruction. Subject areas studied are cognitive development, learning, motivation, and evaluation. Intended for prospective teachers and others interested in psychology as applied to education. (F, S, SS)

PSYC 08305 - Introduction to School Counseling (3)

A general orientation to and an exploration of the roles and functions of the K-12 school counselor and counseling programs within diverse academic populations. Explores the history of guidance and counseling, the comprehensive guidance program, developmental theory, facilitations models, counseling, large group guidance and guidance curriculum, consultation, coordination, peer facilitator projects, counseling ethics and program accountability. Prerequisites: PSYC 08299 or PSYC 08234. (S, odd years)

PSYC 08310 - Cognitive Psychology (3)

Introduces students to mental processes including perception, attention, memory,

mental imagery, problem solving, language, and decision making. Applications of these topics to areas such as law, education, and to other areas of psychology are included. Prerequisites: PSYC 08103 or PSYC 08299, PSYC 08234, and PSYC 08334. (F, S)

PSYC 08312 - Child Psychology (3)

An introduction to human development prior to adolescence. Emphasis is placed upon understanding the genetic and environmental contributions to behavior, physical, social, intellectual, emotional and moral development of the child. The perspective used includes research, interpersonal and institutional components. Intended for prospective elementary school teachers. Prerequisite: PSYC 08103 or PSYC 08299. (F, S, SS)

PSYC 08313 - Psychology at Work (3)

Work and organizations tend to dominate day-to-day life. This course applies theories and research from psychology to help students understand policies, procedures, and events in those settings. That understanding will also help students navigate college and think about future career goals. (F, S, SS)

PSYC 08315 - Psychology of Groups and Teams (3)

This course will draw upon Social Psychological research to understand behavior within the context of groups and teams. Given that understanding, students will discuss the differences between groups and teams as well as consider the ways in which Psychology can be applied to analyze and improve various aspects of group-based activities. (F)

PSYC 08317 - Psychology of Early Adolescence (2)

Survey of the developmental transformations from childhood to adolescence. The class examines the physical, cognitive, emotional and social changes unique to early adolescents. Intended for prospective middle school teachers. Prerequisite: PSYC 08299. (F, S, SS)

PSYC 08322 - Adolescent Psychology (2)

Examines the physical, mental, emotional and social life of the individual from puberty to legal adulthood and the influence of this growth period on the personal habits, attitudes, interests and social adjustments. Intended for prospective high school teachers. Attention is given to factors in the

home, community and school that influence adolescent behavior and personality. Prerequisite: PSYC 08299. (F, S, SS)

PSYC 08323 - Child and Adolescent Psychopathology (3)

An overview of child and adolescent psychopathology. Provides students with a foundation of knowledge regarding the theoretical explanations of child and adolescent behaviors, as well as the assessment, diagnosis and treatment of these behaviors. Students will gain a better understanding of mental health issues facing children and adolescents. Prerequisite: PSYC 08103 or PSYC 08299. (F, even years)

PSYC 08325 - Sport Psychology (3)

This course will examine psychological principles and techniques applied to sport performance. Special attention will be given to psychological skills training techniques, psychological aspects of injury and rehabilitation, burnout, and athletic career termination issues. Prerequisite: PSYC 08103. (S)

PSYC 08330 - The Family (3)

A study of the variety of styles of interpersonal relationships emphasizing self-knowledge and understanding of individuals within relationships as a basic step in relating to others in dating, courtship, engagement, marriage and daily living. Includes exploration of types of relationships, communication patterns and alternative family forms. (F, S)

PSYC 08331 - People, Money, and Psychology (3)

The role of the consumer in the marketplace, forces influencing consumer demand, and the broad social and economic implications of consumer behavior.

PSYC 08333 - Developmental Psychology (3)

A comprehensive survey of human developmental principles emerging during conception and continuing through to the process of death. Emphasis is placed upon the physical, intellectual, cognitive and social-emotional growth from research, theoretical and applied viewpoints based upon empirically demonstrated psychological knowledge. Prerequisite: PSYC 08103 or PSYC 08299. (F, S, SS) (MOTR PSYC 200)

PSYC 08334 - Research Methods I (3)

This course is designed to build on concepts and skills covered in PSYC 08234. It focuses on the logic and design of experimental and non-experimental techniques, ethical considerations in research, internal and external validity, and the role of the scientific method in psychology. Composition of an American Psychological Association (APA) style research proposal is emphasized in this course. Prerequisites: PSYC 08103, PSYC 08234, and MATH 17114. Behavioral Science majors must earn a grade of C or higher in each prerequisite course. (F, S)

PSYC 08335 - Introduction to Case Management (3)

This course focuses on the concept, practice, and issues of case management. Students will develop skills in communicating with clients, discerning intercultural issues in practice, and using best practices in documentation. This class will provide students with generalist skills that can be used in a variety of careers. Prerequisites: PSYC 08103 or PSYC 08299.

PSYC 08343 - Biological Psychology (3)

An examination of the underlying biological mechanisms of behavior, thinking, and emotion. Strong emphasis on introductory neuroanatomy and neurophysiology. Prerequisites: PSYC 08103 and PSYC 08234. Behavioral Science majors must earn a grade of C or higher in each prerequisite course. (F, S)

PSYC 08344 - Drugs, Brain, and Behavior (3)

Examination of the relationship between neuronal communication, drug use and behavior. Focuses on a description of basic neuroanatomy, an explanation of nervous system functioning, and how both legal and illicit drugs influence this communication and resulting behavior, thinking and emotion. Prerequisites: PSYC 08103, PSYC 08234 and PSYC 08343. (F, even years)

PSYC 08345 - Disaster Psychology (3)

A broad introduction to the field of disaster psychology by examining theory, research and practice in disaster psychology. Focuses on the impact of a disaster on both responders and those directly impacted by the event. Discusses intervention strategies and the role of relief organizations. Prerequisites: PSYC 08103 and SOSC 36305. (F, S)

PSYC 08353 - Psychology of Race and Gender (3)

Explores recent literature and research related to biological and cultural factors influencing the development of racial and gender identities. Explores the ways in which stereotypes and social roles affect our lives at the personal, social and institutional levels. Prerequisite: PSYC 08103. (S)

PSYC 08360 - Key Issues in Psychology (1 to 3)

Critical examination of status of theory and research involving key issues of contemporary knowledge in psychology. Repeatable for topic change. Prerequisites as announced.

PSYC 08363 - Psychology of Personality (3)

Examines individual patterns of behavior and reviews diverse theoretical positions that explain personality in terms of individual dynamics, biology, culture, and cognition. Emphasis is placed on understanding the research and philosophy of personality in the context of widely recognized theories of psychology. A survey of relevant and current research is included. Prerequisite: PSYC 08103. (F, S, SS)

PSYC 08365 - Social Psychology (3)

An introductory course probing the development of human behavior in its social context. Significant theories and methodologies in social psychology developed within the disciplines of sociology and psychology are considered, along with representative research in areas such as social perception and attribution, interpersonal attraction, aggression, altruism, role- and self-development and group processes. Prerequisites: SOC 35101 OR PSYC 08103. (F, S, SS)

PSYC 08370 - Applied Behavior Analysis (3)

A systematic review of the facts, concepts, and principles which describe classical and operant conditioning, extinction, generalization/discrimination processes, focusing on their application to therapy, self-improvement, education, parenting, and animal training. Prerequisite: PSYC 08103. (F, odd years)

PSYC 08383 - Psychology of Aging (3)

A comprehensive survey of the changes older adults experience in the areas of physical decline, intellectual/cognitive functioning, socioeconomic adjustment and death/dying. Prerequisite: PSYC 08103. (S)

PSYC 08400 - Special Offering (1 to 4)**PSYC 08401 - Special Topics in Psychology (1 to 4)**

Each course is designed to address the needs of students and/or to incorporate the latest information pertaining to a timely topic or experience in psychology. May be repeated once. (F, S, SS)

PSYC 08405 - Parenthood Education (3)

This course addresses major parenting issues, such as issues and characteristics associated with developmentally appropriate parent-child interaction, as well as parenting roles and responsibilities from a global and intercultural perspective. We will address diverse families and parenting in a variety of cultures, as well as competencies for effective parenting across the lifespan. All of this will be grounded in the context of students' current and future involvement in parent education, relationships, and experiences. This course embraces knowledge based on scientific discovery (research), as well as preexisting personal knowledge. The course will examine individual culture and self-understanding in relation to the context of parenthood. The development of critical thinking skills is a course goal that exists alongside mastery of course content. Students will have opportunities to develop skills and criteria for evaluating the views and ethno-theories in society concerning parenting and parent-child relationships. (F, S, SS)

PSYC 08419 - Independent Study (1 to 3)

Allows an intensive, in-depth study by junior and senior psychology majors and minors in any area of their choice subject to the permission of the professor and the department chairperson. Minimum of 13 hours in psychology and consent of chairperson. May be repeated for a total of 3 hours for new experience. Prerequisite: PSYC 08103. (F, S, SS)

PSYC 08423 - History and Systems of Psychology (3)

This course is an in-depth survey of the historical foundations of modern psychology, discussing the influence of important people, ideas, and schools of thought within their social, cultural, political, and economic context. With an emphasis on practical application of historical principles and ideals, the course will include historically engaging experiences as well as philosophical and physiological perspectives that led to the approaches and ways of thinking.

Prerequisites: PSYC 08103 and advanced standing. Taken in the final semester. Requires consent of instructor and division assistant director. (F, S)

PSYC 08438 - Principles of Counseling (3)

Provides students with a foundation of information related to the development of professional helpers. Provides tools and ethical guidelines required in the counseling, human services, and other helping professions. Covers career paths of professional helpers, reviews counseling theory, and how active listening is used by the helping professionals. Prerequisites: PSYC 08103. (F, S)

PSYC 08443 - Advanced Biological Psychology (3)

An in-depth analysis of the anatomical and physiological correlates of behavior. Emphasis is placed on the physiological and biological basis of sensation and perception, alcohol and drug dependency, neuropsychological disorders, emotion, sleep and consciousness. Other topics may be included. Prerequisite: PSYC 08103, PSYC 08234, PSYC 08334 and PSYC 08343. (S)

PSYC 08444 - Research Methods II (3)

Builds on concepts from PSYC 08234 and PSYC 08334 through the implementation of a research project. Course objectives include choosing a research design, collecting and analyzing data, and presenting findings to peers. Statistical analyses will also be covered, with an emphasis on cleaning data and testing hypotheses. Prerequisites: Minimum grade of C in PSYC 08103, PSYC 08234, PSYC 08334, and MATH 17114.

PSYC 08495 - Field Placement/Internship (3)

The internship is a profession-based learning opportunity designed to provide human services and psychology students with practical, on-the-job work experience that will assist in furthering their career goals. All applicants for internship must have completed at least 20 hours in their respective major and have junior status. Instructor approval required. Repeatable for new experience. (F, S, SS)

PSYC 08500 - Special Offering (1 to 4)

Prerequisites: PSYC 08103 and consent of instructor and department chairperson. Repeatable with topic change.

PSYC 08524 - Independent Living for Special Populations (3)

A lifespan approach to the principles involved in developing independent living skills for those who have disabilities. The course will be designed to provide training and experience in working with the handicapped and the elderly. Prerequisite: PSYC 08335 or by permission.

PSYC 08526 - Psychology of Leadership (3)

Course is designed for individuals who wish to pursue leadership positions, using research supported psychological principles and theory, in community service, education, business management, and/or the helping professions. Focuses on the application and utilization of basic psychological concepts and principles related to the career area of interest. Prerequisite: Senior or graduate standing. (SS)

REC - Recreation**REC 45210 - Special Topics in Recreation Activity (1 to 3)**

Designed for special workshops, special topics, new initiatives and developing courses in recreation that are activity based. Repeatable for new experience and further mastery. (F, S, SS)

REC 45211 - Leisure and Society (3)

This course explores the historical and contemporary leisure and recreation phenomena within the context of societal diversity and multicultural considerations. The course will review diverse perspectives on the meaning of leisure and the role it plays within cultures and ethnic groups, as well as the potential implications of assimilation into dominant cultural norms. (F, S, SS)

REC 45216 - Gerontology (3)

Provides an overview of the total process of aging and the changes that evolve in society and in the lives of individuals as others grow old ahead of us. Students will be encouraged to think positively and realistically about aging and the elderly, and develop sensitivity to family and social and economic situations of older people. (F, SS)

REC 45240 - Foundations of Recreation (3)

An introductory course designed to provide an overview of the different areas of study, participation and career opportunities in the field of recreation and leisure. Includes a thorough description of its current scope and

organizational practices, as well as the historical, sociological, psychological, philosophical and economic aspects of recreation and leisure. Concurrent enrollment in REC 45245 is recommended. (F, S)

REC 45243 - Introductions to Therapeutic Recreation (3)

Designed to introduce students to the therapeutic recreation profession. Course content focuses on three distinct areas: historical and technological development, clinical and programmatic management, and current community and clinical practice. Prerequisites: REC 45240 and REC 45245, or permission of instructor. (F)

REC 45245 - Leisure Services and Special Populations (3)

Students are provided with opportunities to review their personal awareness and values related to various special populations. An overview of general strengths and limitations faced by each group will be presented. Exploration of leisure services offered for special populations as well as adaptations to programs to promote inclusion is stressed. Concurrent enrollment recommended in REC 45240. (F, S)

REC 45310 - Special Topics in Recreation (1 to 3)

Designed for special workshops, special topics, new initiatives and developing courses in recreation at the undergraduate level. Repeatable for new experience and further mastery. (F, S, SS)

REC 45315 - Social Aspects of Aging and Families (3)

This course introduces you to social welfare programs designed to assist older adults such as Social Security, Medicare and Medicaid. You will also have the opportunity to learn about social networks and families in later life. (Fall, even years)

REC 45321 - Exploring Recreation Resources (3)

This course allows students the opportunity to visit a variety of recreation agencies for the purpose of comparing and contrasting the nature of the services provided, and to learn about career opportunities. Repeatable for new experience and further mastery. (SS)

REC 45340 - Recreational Programs (3)

Principles of program planning; roles of leader, administrator and community in program planning; special consideration for programs necessitated by various recreation settings; short term, seasonal and year round. (F, S)

REC 45345 - Therapeutic Recreation Program Design (3)

Designed to develop the necessary competencies and skills needed to plan and implement appropriate therapeutic recreation programs for diverse special need populations. Prerequisites: REC 45243 and REC 45245, or permission of instructor. (S)

REC 45365 - Leisure and Aging (3)

The course explores the role of leisure in a healthy older adult development. Students will acquire a basic understanding of leisure for the current older adult cohort, the Baby Boomers, and future elders. Students will explore leisure services and settings, critically analyzing how history has and will shape the leisure behaviors of seniors (F)

REC 45425 - Expressive and Creative Programs (3)

An exploration into the highly creative program areas in the recreation and leisure industry. Course will examine the performing and visual arts, arts and crafts, dance, literature and drama. Students participate in, and lead activities, and develop a resource guide.

REC 45434 - Senior Seminar in Recreation (3)

A study of the current issues and trends in recreation and internship preparation. (F, S)

REC 45440 - Recreation Operations Management (3)

Understanding of the principles and the ability to apply techniques of planning, design, development, operations, and maintenance of recreation and park areas and facilities. (F, S)

REC 45443 - Techniques of Recreation Leadership (3)

Theoretical and practical experiences in recreation leadership. Techniques of group work and progressive leadership applicable to recreational activities, programs and settings. (F, S)

REC 45444 - Outdoor Recreation/Education (3)

Exploration of the outdoor activity areas in the recreation and leisure industry. Students participate in activities, lead activities, and develop a resource guide of activities associated with outdoor recreation and education. (F)

REC 45445 - Natural Resource History and Interpretation (3)

Exploration of federal and state natural resource agencies. Focus will be on the history, philosophies, uses, and management practices of wildlands, historic resources, and natural areas. The course will explore and practice the communication processes and practices between managers and publics that help interpret the special characteristics of natural, cultural, and historic resources. (F)

REC 45446 - Introduction to Research Methods and Evaluation of Leisure Services (3)

Knowledge of introductory research methods and appropriate measurement techniques utilized in the recreation and leisure services industry. Emphasis will be placed on those assessment/evaluation skills which are used by leisure professionals to determine the extent to which programmatic and organizational goals and objectives have been achieved. (F, S, SS)

REC 45449 - Independent Study in Recreation (1 to 3)

Individual study in recreation and/or leisure, under faculty supervision of a selected area of interest. May be repeated for a total of three hours for new experience or further mastery. Prerequisite: Permission of advisor and instructor. (F, S, SS)

REC 45450 - Field Experience in Recreation and Park Management (3)

Opportunity to apply core recreation course information, observe practices and policies for upcoming advanced recreation courses, and gain practical experience in specific recreation and park management programs. The experience should include a minimum of 150 hours of hands-on, practical experience for a minimum of 8-12 week period. Sites for the field experience must meet academic and professional criteria and should be pre-approved by the Program Coordinator prior to enrollment in the course. The experience must be directly supervised by a recreation professional on-site at the approved agency and a university recreation program faculty member serving as the field experience supervisor. Settings

for field experiences may include municipal or community recreation and/or park departments, commercial recreation agencies, social service agencies, hospitals, retirement homes, residential or day camps, church recreation programs, and others with prior approval. A course fee will be charged in addition to the tuition credits. This fee covers student liability insurance and the travel expenses for a faculty supervisor site visit within 150 miles from campus
Prerequisite: REC 45340 with a grade of C or better. (F, S, SS).

REC 45455 - Field Experience in Sport Management (3)

An opportunity to gain practical experience in specific sport management programs. Experience will include a minimum of 150 hours of hands-on, supervised practical experience. Prerequisite: REC 45340 with a grade of C or better. Prerequisite waived for Sport Management minor. (F, S, SS)

REC 45461 - Therapeutic Recreation Interventions with the Elderly (3)

The course is designed to introduce students to various therapeutic activity intervention strategies that have been shown to benefit frail older adults. Emphasis will be given to looking at behavior issues, physical and mental challenges, documentation, evaluation, and communication with the elderly. (S)

REC 45469 - Practicum in Aging (3)

As a way to apply what is learned in coursework and to become more comfortable working with elders, the student must complete a 3 credit, 135 hour practicum providing experiences with both well and frail older persons. Students are required to complete this practicum in addition to any other practicum required for other programs. Settings for aging practicum experiences may include senior centers, assisted living, long term care, rehabilitation agencies, community parks and recreation agencies, social service agencies, hospitals, retirement communities, adult day programs, church programs, and others with prior approval by the Program Coordinator. A course fee will be charged in addition to the tuition credits. This fee covers student liability insurance and the travel expenses for a faculty supervisor site visit within 150 miles from campus. Prerequisite: 12 hours of coursework in the Gerontology minor with a C or better in each class. (F, S, SS)

REC 45498 - Internship in Therapeutic Recreation (11)

This course should be completed by students choosing to become a Certified Therapeutic Recreation Specialist by sitting for the professional National Council on Therapeutic Recreation Certification (NCTRC) exam. A transitional, applied experience to facilitate a gradual induction to professional therapeutic recreation careers. The experience should include a minimum of 560 hours of hands-on, supervised practical experience over a minimum of 14 consecutive-week period. Sites for internships must meet academic and NCTRC professional criteria and should be pre-approved by the Program Coordinator prior to enrollment in the course. The internship location/agency should be different from where to REC 45450 Field Experience was completed. To meet NCTRC eligibility requirements, the experience will be directed and supervised by a CTRS-certified recreation professional onsite at the approved agency and a university CTRS-certified recreation program faculty member serving as the academic internship supervisor. Settings for internships may include municipal or community recreation and/or park departments, state and national parks, commercial recreation agencies, social service agencies, hospitals, rehabilitation centers, assisted living and long-term care facilities, retirement homes, day and residential camps, church recreation programs, and others with prior approval. This is the final capstone course and should be the last class taken in a student's academic program. A course fee will be charged in addition to the tuition credits. This fee covers administrative costs and the travel expenses for a faculty supervisor site visit within 150 miles from campus. This course must be passed with a grade of C or better. Note: Students seeking to earn eligibility to sit for the professional certification exam must meet all criteria as set forth by NCTRC. Prerequisites: REC 45240, REC 45245, REC 45340, REC 45440, REC 45443, REC 45450, REC 45446, and REC 45546 all with a grade of C or better, and REC 45243, REC 45345, REC 45461, REC 45542, REC 45543, and REC 45562 or Recreation Program Coordinator approval. (F, S, SS)

REC 45499 - Recreation Internship (9)

A transitional, applied experience to facilitate a gradual induction to professional recreation. The experience should include a minimum of 450 hours of hands-on, supervised practical experience over a

minimum of 12-15 week period. Sites for internships must meet academic and professional criteria and should be pre-approved by the Recreation Program Coordinator prior to enrollment in the course. The experience will be directed and supervised by a recreation professional on-site at the approved agency and a university recreation program faculty member serving as the internship supervisor. Settings for internships may include municipal or community recreation and/or park departments, state and national parks, commercial recreation agencies, social service agencies, hospitals, rehabilitation centers, assisted living and long term care facilities, retirement homes, day and residential camps, church recreation programs, and others with prior approval. This is the final capstone course and should be the last class taken in a student's academic program. A course fee will be charged in addition to the tuition credits. This fee covers additional administrative costs and the travel expenses for a faculty supervisor site visit within 150 miles from campus. This course must be passed with a C or better. NOTE: 10 week internships MAY be allowed for students working at residential camps. See the Recreation Coordinator for approval BEFORE agreement is signed. Prerequisites: REC 45450 or 45455 Field Experiences with a grade of C or better.

REC 45510 - Special Topics in Recreation (1 to 3)

Designed for graduate/advanced level special workshops, special topics, new initiatives and developing courses in recreation. Repeatable for new experience and further mastery. (F, S, SS)

REC 45511 - Golf Course Maintenance and Management (2)

Designed to familiarize students with the aspects of golf course maintenance and management. Covers the design and maintenance of greens, tees, fairways, roughs, and bunkers. Concepts of staffing, budgeting, and equipment selection and maintenance will be covered. (S)

REC 45512 - Aquatic Facility Maintenance and Management (2)

Emphasizes the development of technical knowledge and skills needed to operate a safe aquatic environment, staff development and management, and aquatics program development. (S)

REC 45513 - Outdoor Recreation Facilities Maintenance and Management (2)

Designed to help students develop a knowledge base related to the maintenance and management of outdoor recreation resource areas. Specific areas of study will include shooting sports areas, climbing walls and towers, trails, marinas, camp grounds, and RV operations. (F)

REC 45520 - Challenge Course Facilitator Training (3)

Course emphasizes assessing, planning, implementing, processing and evaluating challenge course programs in the recreation services industry. Programs are designed to promote communication, cooperation, trust, goal setting, problem solving, self-concept and interpersonal interactions. Repeatable for new experience or further mastery. (F, S, SS)

REC 45525 - Commercial Recreation (3)

An introduction to the scope, characteristics, development, management aspects and trends within the commercial recreation industry including the delivery of goods, services, amenities, facilities, and entrepreneurship. (S)

REC 45533 - Recreation Sports Management (3)

A study of the objectives and principles of administering an intramural program at the high school or college level. Application of principles to practical situations with field experience. Prerequisite: REC 45340 and REC 45443, or HPER 22239 and HPER 22333. (F)

REC 45540 - Group Dynamics (3)

An introduction to the dynamics of group work including different models of group development, types of groups, stages of development, selective processes and intervention strategies. Students will observe, participate in and evaluate group activities. Group leadership and facilitation skills will be presented. (F)

REC 45542 - Trends and Issues in Therapeutic Recreation (3)

This course is designed to familiarize students with existing trends in therapeutic recreation programming, to discuss current legal issues, current societal attitudes toward individuals with disabilities, trends within the health care delivery system, and other current trends and issues related to therapeutic recreation. Prerequisites: REC

45243 or REC 45345 or permission of instructor. (S)

REC 45543 - Administration of Therapeutic Recreation Services (3)

This course provides an introduction to general managerial functions and useful theories in administration of Therapeutic Recreation programs. Major topics include financial management, personnel (including volunteers and interns) management, quality improvement, and marketing. Prerequisites: REC 45243, REC 45245, and REC 45345, or approval of the Graduate Program Coordinator.

REC 45546 - Administration of Recreation (3)

Organization and administration of recreation on the federal, state, and local levels. Special attention is given to community organization for recreation; budgeting and personnel management; and the place of physical activities, pageants, and special events in the recreation program. Prerequisite: REC 45450 with a grade of C or better. (F, S)

REC 45547 - Grant Writing (3)

Acquaints students with the vocabulary, concept and practices in the study of grants administration and management. Enables practicing the skills necessary in obtaining outside funding and provides awareness of the individual roles and agencies within public funding. (F)

REC 45554 - Psychological Aspects of Therapeutic Recreation (3)

This course is designed for graduate-/advanced-level students studying Therapeutic Recreation. In Psychological Aspects of Therapeutic Recreation, various psychology-based theories and frameworks relevant to the application of therapeutic recreation practice and interventions will be explored. Students will develop a detailed understanding of presented theories and apply this knowledge as they develop therapeutic recreation interventions that are intended to enhance the psychological well-being of clients. Prerequisites: REC 45243, REC 45345, REC 45461, REC 45562, PSYC 08333, and PSYC 08223 all with a grade of C or better, or permission of School Director.

REC 45562 - Assessments, Diagnostics, and Treatment Planning in Therapeutic Recreation (3)

Course will provide an overview of (1) the basic concepts associated with psychometric assessment, (2) a variety of individual client assessments used in practice and (3) the use of therapeutic recreation assessments in the development of individualized treatment/program plans. Prerequisites: REC 45243 or REC 45345 or permission of instructor. (F)

Activity Courses

Only 4 activity credits may count toward the minimum hours required for graduation.

REC 45110 - Climbing Wall (1) (F, S, SS)

REC 45124 - Noncompetitive and Recreational Games (1)

REC 45130 - Canoeing (1) (F, SS)

REC 45131 - Kayaking (1) (F, SS)

REC 45132 - Watercraft (1) (F, SS)

REC 45140 - Archery (1) (F, SS)

REC 45150 - Trapshooting (1) (F, S, SS)

SCED - Science Education

SCED 28225 - Science in the Elementary Classroom (2)

In this course, candidates will learn strategies and skills for teaching, assessment, and evaluation necessary for the instruction of science in elementary school. Emphasis will be given to the integration of science with content literacy, science, art, music, and physical education. Corequisites: EDCI 62426 and MATH 17226. Prerequisites: A grade of C or better in BIOL 04102, BIOL 04013, PHSC 40102, and PHSC 40103. (F, S)

SCED 28226 - Science in the Elementary School (2)

In this course, candidates will learn strategies and skills essential for the instruction of science in the elementary school. Techniques for integrating science with content literacy, art, music, and physical education will be included. This course

requires 3-5 hours of field experience work. Prerequisites: BIOL 04102 and BIOL 04103 with a C or better, and PHSC 40102 and PHSC 40103 with a C or better, and EDCI 62119 with a C or better. Corequisites for Elementary and Special Education majors include: EDCI 62225, EDCI 62228, EDCI 62229, and MATH 17227.

SCED 28550 - History of Science and Technology (3)

This course will develop a conceptual framework for scientific and technological literacy. The goals of the course will be related to the acquisition of knowledge, the development of learning skills and the development of values and ideas. Characteristics of science, technology and society instruction will be stressed. Prerequisite: Science majors (15 hours in science recommended). (S)

SCED 28580 - Methods in Secondary School Science (3)

This course is designed to acquaint prospective science teachers with the methods and materials needed in teaching science at the secondary level. The course provides individualized experiences related to the teaching of the subject fields each student has elected for his or her major or minor area. Prerequisite: Science major or minors admitted to Teacher Education. (F)

SCED 28582 - Methods in Middle School Science (3)

A course to assist prospective middle school science teachers with the methods and materials needed in teaching science at the middle school level. Prerequisite: Science majors or minors (EDUC 61570, 15 hours of science), and Admittance to Teacher Education. (F)

SCGD - School Counseling

SCGD 68520 - Drug Prevention and Education in Schools (3)

Prepares the classroom teacher to become an effective drug-education facilitator. The emphasis is on methods and techniques useful in helping youth develop a positive self-concept, improve communication skills, clarify value issues and assimilate information regarding drug issues. Prerequisite: Senior or graduate standing. (S, even years)

SCGD 68570 - Principles and Practices of the K-12 School Counseling Program (3)

Provides a general orientation to the roles and functions of the K-12 school counselor. Developmental school counseling is examined. Prerequisites: Senior or graduate standing and consent of advisor. (SS)

SOC - Sociology

SOC 35101 - General Sociology (3)

This course is designed to provide a greater understanding of the social world. Sociology is defined as a scientific study of human behavior in social life with an assumption that there are social forces which shape and influence patterns of behavior and ways of thinking. These include social forces such as culture, stratification, age, gender, race and ethnicity, and globalization. Several sociological perspectives serve as the point of reference by which human behavior at the micro and macro level are better understood. (F, S, SS) (MOTR SOCI 101)

SOC 35108 - General Anthropology (3)

A survey course covering the origins of man, ancient man and prehistoric culture; faces of man and cultural capacity; historical and contemporary preliterate culture, including housing and handicrafts, marriage and kinship, status and role, property and government, religion and the supernatural. (S) (MOTR ANTH 101)

SOC 35200 - Special Offering (1 to 4)

SOC 35215 - Probation and Parole (3)

This course examines the practices and procedures of probation and parole in the United States within the adult and juvenile systems. (S, even years)

SOC 35230 - Social Problems (3)

This course is designed to explore competing explanations for the causes and/or influences of, and cures for social problems at the micro and macro levels. The course critically analyzes dominant definitions of social problems, the political and economic roots of these problems, and the public policies aimed at reducing them. Prerequisite: SOC 35101. (F)

SOC 35240 - Introduction to Corrections (3)

An introduction to the history, concept and realities of crime and punishment with an emphasis on the increasing social significance and diversity of prisons and the penal system in American society.

Prerequisites: PSYC 08103 or SOC 35101. (S, odd years)

SOC 35305 - Evidence and Investigation (3)

This course examines the techniques of investigation and the processing of evidence by the criminal justice system. (F, alt. years)

SOC 35316 - Urban Sociology (3)

Course is designed to provide students with a better understanding of the structure and function of urban areas in society. Examines the dynamic relations of cities, not only in the U.S., but in the Third World. Discussions on urban processes and urban life will cover theoretical approaches and various urban problems such as poverty, ethnic minority concentration, crime in urban settings, and recent developments in urban sociology, including new network approaches to city systems and global cities. Prerequisite: SOC 35101. (S)

SOC 35318 - Social and Cultural Foundations of Personality (3)

This course examines the historical development of youth in Western culture and the status of youth in contemporary American society. Focuses on males and females growing up in America. Prerequisite: SOC 35101. (F, odd years)

SOC 35320 - Delinquency (3)

Theories and causes of delinquency. Examines antisocial behavior and delinquent behavior in gangs. Prerequisite: SOC 35101. (F, odd years)

SOC 35321 - Criminology (3)

Examines the theory and research regarding the biological, psychological, and sociological patterns of criminal behavior. Patterns of property crime, corporate crime, and violent crime will be examined. Prerequisite: SOC 35101. (F, even years)

SOC 35323 - Deviant Behavior (3)

An examination of rule breaking behavior. This course will focus on theories of criminal, noncriminal and organizational deviance. In addition, this class will examine in some detail a variety of deviant behaviors. Included among the forms of deviance addressed are mental illness, sex related deviance, corporate crime, white-collar crime, governmental deviance, organized crime and common crime. Prerequisite: SOC 35101. (S, odd years)

SOC 35330 - Social Stratification (3)

Structures and functions of social inequality and their differential impact on life patterns. Includes theories of stratification, social class identification, social-psychological and structural variables in social mobility, life patterns in each social class and potential for change. Prerequisite: SOC 35101. (F)

SOC 35337 - Race and Ethnic Issues in Modern Society (3)

Designed to develop the student's awareness of his/her own identity in terms of race and ethnicity and to enhance a positive sense and recognition of the different experiences and values of the diverse minority groups within American society. Examines the beliefs and values which are embedded in various types of stereotypes and prejudice. Prerequisite: SOC 35101 (S)

SOC 35375 - Police and Society (3)

This is an introduction to the police in American society. The material is organized around the development and structure of the police as an integral part of the criminal justice process, with an emphasis on large municipal departments. The course addresses issues such as the tension between the coercive power of the police and the expectation of freedom in American society; the ability of the police, as organized, to deal with crime and disorder; the nature of role expectations and role conflict between the police and the public; the nature and effects of what is called the police subculture, and issues of profiling, stereotyping, prejudice, and corruption. Prerequisite: SOC 35101. (F, even years)

SOC 35380 - Sociology of Health and Illness (3)

This course is designed to explore and investigate the social, cultural, and political aspects of health, illness, and the health care system. Topics in the course include social factors and the meaning of health and illness, medical dilemmas and debates, the self and illness, disparities in health and the health care systems in terms of age, gender, race/ethnicity, socioeconomic status, and alternatives to dominant understandings of health and healing. Prerequisite: SOC 35101. (S, even years)

SOC 35400 - Special Offering (1 to 4)

SOC 35405 - Victimization (3)

This course provides an in-depth examination of crime victims and their association as both causes and effects of criminal activity.

Prerequisites: POLS 34205 and SOC 35101. (S, even years)

SOC 35440 - Fundamentals of Social Work Practice (3)

This course is an introductory survey of the social work profession. It overviews principal social work values, codes of ethics, practice and research methods, fields of social work practice, and social welfare policy issues. The course emphasizes the unique experiences of diverse and at-risk population groups facing various social challenges. Prerequisite: SOC 35101 (SS)

SOC 35443 - Family Problems in Modern Society (3)

Course deals with problems that occur as a result of societal pressures and inadequate functioning within the family system. The class will choose specific topics of study from the following areas: alcoholism, violence, incest, dual career, single-parent, step-parent, divorce, death and others. Current literature will be read in lieu of a text. Prerequisite: PSYC 08330. (S)

SOC 35450 - Research Methods in Social Sciences (3)

An introduction to the scientific method as it is applied to social and behavioral research. Course content includes a study of basic research issues and research strategies utilized by social and behavioral researchers. Basic issues covered include research ethics, causality, the relationship between theory and research methods, and discussion of the differences between scientific social analysis and nonscientific social analysis. Quantitative survey strategies will be emphasized but unobtrusive methods and experimental designs will also be introduced. Prerequisite: SOC 35101 and MATH 17114. (F)

SOC 35455 - Sociological Theory (3)

A survey of the major theories of society from the classic positions through the present with special emphasis on contemporary theories. Prerequisite: SOC 35101. (S)

SOC 35460 - Key Issues in Sociological/Anthropological Theory (3)

Critical examination of status of theory and research involving key issues of contemporary knowledge in sociology/anthropology. Prerequisite: SOC 35101 or SOC 35108. Repeatable for new topic.

SOC 35479 - Independent Study in Sociology (1 to 3)

Individual study, under faculty supervision, of a selected area of interest. May be repeated for a total of three hours for new experience or further mastery. Prerequisite: SOC 35101 (F, S)

SOC 35495 - Field Experience/Internship in Sociology/Corrections (3)

Provides direct contact with helping agencies and paraprofessional experiences. Students will apply knowledge from behavioral science courses. Prerequisites: SOC 35101, completion of 15 hours in sociology courses and instructor approval. Repeatable for new experience. (F, S, SS)

SOC 35500 - Special Offering (1 to 4)

THEA - Theatre

THEA 43101 - Theatre Appreciation (3)

An introductory course surveying the aesthetic process by which plays are translated into theatrical terms and projected from a stage to an audience, including play analysis, acting, directing, scene design, costume, makeup and stage lighting. (F, S, SS) (MOTR THEA 100A)

THEA 43110 - Theatre Foundations (3)

Provides an introduction to the study of theatre, including the play production process, the basic crafts and skills required for both technical theatre and performance, and script analysis. Lab hours are required. (F)

THEA 43201 - Special Topics (1 to 3)

Provides concentrated study in special areas within theatre. Topics vary semester to semester. Pre-requisites as announced. Repeatable with topics changing.

THEA 43210 - Design Principles in Theatre (3)

An introductory course in the theory, process, and techniques of set, lighting, sound, and costume design. Students will study the principles and dynamics of design, the development of a design concept, script analysis from the designer's perspective, and collaborative work. Lab hours are required. (S)

THEA 43211 - Technical Skills: Scenery (2)

Provides theory and practice in basic skills and crafts related to scenery and properties

in the theatrical production process. Lab hours are required. (Rotates every third semester, excluding summer).

THEA 43212 - Technical Skills: Costumes (2)

Provides theory and practice in basic skills and crafts related to costuming in the theatrical production process. Lab hours are required. (Rotates every third semester, excluding summer)

THEA 43213 - Technical Skills: Electrics (2)

Provides theory and practice in basic skills and crafts related to lighting and sound in the theatrical production process. Lab hours are required. (Rotates every third semester, excluding summer)

THEA 43221 - Drafting (3)

Introduces the student to drafting rules and procedures. Students will begin the semester with hand-drafting (paper & pencil) work and will move on to basic 2D CAD skills using the program VectorWorks. (S)

THEA 43222 - Advanced Drafting (3)

Building upon skills acquired in THEA 43221 Drafting, the student will continue with advanced 2D projects, and will be introduced to 3D modeling/rendering using the CAD program VectorWorks. Prerequisite: THEA 43221 Drafting (S)

THEA 43225 - Oral Interpretation and Textual Analysis (3)

Introduces the student to principles of literary analysis and techniques of oral interpretation as the foundation for all performance experiences. (F)

THEA 43230 - Acting (3)

Provides training in fundamental principles and techniques of modern acting. Emphasis is given to the formation and development of the actor's imagination, intellect, and overall working process. Prerequisite: THEA 43225 or permission of instructor. (S)

THEA 43235 - Theatre Voice and Movement (3)

A survey of and practice with multiple theatre movement and voice theories designed to develop student awareness and skill related to the body's expressive potential. Prerequisite: THEA 43230 or permission of instructor. (S, even years)

THEA 43258 - Stage Makeup (3)

Acquaints the student with basic principles of the art and technique of makeup and assisting the actor in the development and projection of his or her character on stage. (F)

THEA 43305 - Independent Practicum in Theatre (1)

Involves focused and mentored participation in various practical aspects of play production and/or performance; may be repeated for a total of four semester hours for further mastery. (F, S)

THEA 43316 - Playwriting (3)

Composition or original short plays, dramatic scenes and monologues. The course provides an examination of the elements, discipline and art of playwriting through analysis of established plays and creation of original short plays, dramatic scenes and monologues. Cross-listed as ENGL 10316 Creative Writing: Playwriting. Prerequisites: ENGL 10210 Introduction to Creative Writing or THEA 43225 Oral Interpretation and Text Analysis or permission of instructor. (S, odd years)

THEA 43330 - Advanced Acting (3)

Concentrated study in character analysis and acting methods. Prerequisite: THEA 43230 or permission of instructor. (S, even years)

THEA 43335 - Acting Period Styles and Techniques (3)

Provides training in the performance of character roles from various periods of dramatic literature and genres. Prerequisite: THEA 43230 or permission of instructor. (S, odd years)

THEA 43354 - Stage Lighting (3)

Concerns the role that lighting has to play in production, the lighting designer's place in the production process and the procedures involved in designing lighting for stage. Prerequisite: THEA 43110 and THEA 43213 or permission of instructor. (F, odd years)

THEA 43373 - Directing (3)

Discusses the basic function of a director in the production of a play including selection, interpretation, composition, movement, characterization, rhythm, design concept and actor training. Prerequisites: THEA 43110 and THEA 43230 or permission of instructor. (F)

THEA 43383 - Stage and Theatre Management (3)

This course will explore the duties, responsibilities, and technique of modern stage and theatrical managers. Prerequisite: permission of instructor. (S, odd years)

THEA 43391 - Costuming (3)

Examines the use of clothing and stage costumes by major periods through style and design. Prerequisite: THEA 43110 and THEA 43212 or permission of instructor. (S, even years)

THEA 43395 - Scene Design (3)

Provides the student with a basic knowledge of the techniques and methods for designing scenery for the theatre, opera, musical, ballet and television. Prerequisites: THEA 43110, THEA 43211, THEA 43221, or permission of instructor. (F, even years)

THEA 43401 - Special Topics (1 to 3)

Provides concentrated study in special areas within theatre. Topics vary semester to semester. Prerequisites as announced. Repeatable with topics changing.

THEA 43407 - History of Theatre I (3)

An examination of theatre's evolution from its origins through 1700 as a reflection of and influence on society. (F)

THEA 43408 - History of Theatre II (3)

An examination of western theatre trends from the 18th to the 21st century as a reflection of and influence on society. (S)

THEA 43426 - Interpreter's Theatre (3)

Provides study and practical application in selecting and adapting literature for group reading. Culminates in a public performance. Prerequisite: Permission of instructor.

THEA 43440 - Preparing Repertory (3)

Provides instruction and training in the methods required for preparing a repertory theatre season. May be repeated for a total of nine semester hours for further mastery. (SS)

THEA 43445 - Summer Repertory Theatre (3)

Provides instruction and training in the various activities involved in the operation of a repertory theatre company. May be repeated for a total of nine semester hours for further mastery. (SS)

THEA 43460 - Creative Dramatics (3)

Introduces the methods, techniques, and rationale for teaching and using creative dramatics activities with students from pre-school through secondary grades. (F, odd years)

THEA 43468 - Internship in Theatre Performance (1 to 3)

Professional experience in theatre performance. The particular interests of the students are addressed through practical application with theatre practitioners. Prerequisite: Permission of instructor. Repeatable for new experience.

THEA 43469 - Internship in Technical Theatre (1 to 3)

Professional experience in technical theatre. The particular interests of the students are addressed through practical application with theatre practitioners. Prerequisite: Permission of instructor. Repeatable for new experience.

THEA 43497 - Theatre Capstone (3)

Concentrates on the development of the theatre professional. Topics include ethics; career planning strategies; internships, graduate school and advanced training opportunities; union membership; parallel industry careers; and emerging trends in the performing arts. This course includes a formal presentation of the student's professional portfolio and preparation for public performance or exhibition of research, methods and practices comprising the student's area of emphasis in theatre (senior project). Prerequisite: Advanced standing and permission of department chairperson. (S)

THEA 43499 - Senior Project (1)

A public performance or exhibition of materials comprising the student's area of emphasis in theatre. Prerequisites: THEA 43497 or concurrent enrollment; must meet the current departmental cut score(s) on the current standardized general education test(s) (contact the department office for specific information), and permission of the department chairperson. (F, S)

THEA 43501 - Special Topics (1 to 3)

Provides concentrated study in special areas within theatre. Topics vary semester to semester. Pre-requisites as announced. Repeatable with topics changing.

THEA 43509 - Advanced Theatre Production (1 to 3)

Involves a practical approach to the art of producing a play. Specialized elements in mounting a play for production are discussed, relating to the specific needs of the students enrolled. The course culminates in a public performance. Repeatable for further mastery.

THEA 43572 - Independent Study in Acting (1 to 2)

Provides individualized, in-depth study in acting. This study is intended to develop and theoretically apply various principles of theatre arts to educational and professional theatre depending on the needs of the students. Repeatable with topics changing.

THEA 43573 - Independent Study in Directing (1 to 2)

Provides individualized, in-depth study in directing. This study is intended to develop and theoretically apply various principles of theatre arts to educational and professional theatre depending on the needs of the students. Repeatable with topics changing.

THEA 43574 - Independent Study in Dramaturgy (1 to 2)

Provides individualized, in-depth study in dramaturgy. This study is intended to develop and theoretically apply various principles of theatre arts to educational and professional theatre depending on the needs of the students. Repeatable with topics changing.

THEA 43575 - Independent Study in Technical Theatre (1 to 2)

Provides individualized, in-depth study in technical theatre. This study is intended to develop and theoretically apply various principles of theatre arts to educational and professional theatre depending on the needs of the students. Repeatable with topics changing.

Appendix

Facilities

Administration Building

Built in 1907-1910, this Tudor Revival structure with its four towers is the landmark of the campus. In 1979, a fire destroyed the north wing and the west wing, the latter of which is largely restored. In addition, the entire second floor and a portion of the third floor have been extensively renovated. This historic building houses Admissions, Career Services, Graduate Office, Registrar's Office, Scholarships and Financial Assistance Office, Cashiering, Student Account Services Office, and other administrative and student services offices. It was added to the National Registry of Historic Places in 2010.

Alumni House

Located on College Avenue, this structure is owned by the non-profit Northwest Foundation and houses the Office of University Advancement and Alumni Relations. This former private residence is the social center for alumni and friends of Northwest.

Everett W. Brown Education Hall

Located across from the J.W. Jones Union, this Neo-Gothic ornamented structure was renovated and rededicated in 1987 to Everett W. Brown, an alumnus, long-time staff member, eight-term member of the Missouri House of Representatives and former appointed member of the Missouri Coordinating Board for Higher Education. Originally dedicated in 1939, Brown Hall houses the School of Education, as well as the Horace Mann School for elementary education.

Center for Innovation

The Dean L. Hubbard Center for Innovation built in 2009 houses two academic units. The west side of the building is the home of the School of Agricultural Sciences. Renovated in 2017, the west side of the CI features classrooms, laboratories, faculty offices, and a shared research lab. The east side of the building houses a portion of the Department of Natural Sciences. Similar to the west side, the Natural Sciences wing features classrooms, faculty offices, and teaching/research laboratories.

Colden Hall

Completed in 1959, this V-shaped structure is named for Charles J. Colden, the first president of the Board of Regents. This major academic structure was completely renovated in 1996-1997 providing environments for technology to supplement and facilitate learning, and with flexibility for advancements in the future. Located on the second floor are the faculty and staff offices for Business; Computer Science and Information Systems; Language, Literature, and Writing; and Behavioral Sciences.

Mabel Cook Recruitment and Visitors Center

Located at the southeast entrance to campus, the center is named for a graduate of the Department of Family and Consumer Sciences, who later served on the faculty and chaired the department. As a student, Mabel Cook initiated the idea for Kappa Omicron Phi, now a national family and consumer sciences honor society called Kappa Omicron Nu. The house is now used as a visitors center for prospective students and their families as well as housing Admissions personnel and Student Ambassadors.

Raymond J. Courter College Park Pavilion

The Pavilion in College Park located west of the Ron Houston Center for the Performing Arts was completed in 2005. It includes a 5,600 square foot outdoor amphitheatre with stage, theatrical lighting, storage and restrooms for University and community events. The Pavilion is named in honor of Raymond Courter whose influence over 37 years of service and as chief financial officer guided master planning for capital construction projects resulting in additions or improvements to nearly 30 campus buildings and structures.

DeLuce Fine Arts Building

Located on the south side of the campus, this circular structure was dedicated in 1965 and honors the long-time faculty member and nationally-recognized leader in art education, Olive DeLuce. DeLuce contains studios, the DeLuce Gallery, classrooms, rehearsal rooms, and faculty and staff offices for Art and Music.

The 549-seat **Charles Johnson Theater**, housed in DeLuce, is named for the first chairman of the Spring Festival of the Arts. The Charles Johnson Theater also has a two-manual, 21-rank McManis pipe organ.

Fire Arts Building

This triangle shaped building constructed in 2004-2005 is located to the southeast of the DeLuce Building. It houses ceramics, sculpting, and welding art classes.

Foster Fitness Center

In March 2014, the Northwest Board of Regents approved the renaming of the former Foster Aquatic Center to the Robert and Virginia Foster Fitness Center. The Fitness Center consists of nearly 20,000 square feet of open floor space accommodating state-of-the-art cardio and weight lifting machines, a human performance lab and classroom space. In addition, the facility houses a specified area for aerobics, spinning, yoga, and various fitness courses. A fitness mezzanine housing cardio equipment with windows providing natural lighting overlooks the facility.

Garrett-Strong Science Building

This building on the north side of campus honors two former department chairmen: William T. Garrett, Department of Biological Sciences; and J. Gordon Strong, Department of Chemistry and Physics. Completed in 1968, Garrett-Strong contains laboratories, lecture halls and classrooms, as well as faculty and staff offices for Biology; Chemistry; Physics; Geology; Geography; and Mathematics. The entire building was renovated in 2000-2001 resulting in a state-of-the-art facility. The botany laboratory and greenhouse building were added in 2002.

Thomas W. Gaunt House

Located across from the Alumni House on the south end of campus, the Gaunt House was constructed in 1870 by a retired sea captain whose tree nursery was located on what is now the main campus. The Classical Revival-style structure has been the home of University presidents since the founding of the institution in 1905, and it is listed in the National Register of Historic Places. In 1999-2000, a new addition was added that expanded the kitchen to include daily family use and a food preparation area for large group gatherings. A new outside patio was also added. Extensive renovations to the entire house were completed in 2009-2010.

Ron Houston Center for the Performing Arts

Built in 1984, the Ron Houston Center for the Performing Arts is named for Ron Houston, whose generosity led to a significant expansion of performance facilities available to Northwest theatre students. The center also includes the **Mary Linn Auditorium**, named after Mary Casteel Linn, a former University Regent and dedicated patron of the arts. The 1,099-seat theater can accommodate a full symphony orchestra, or it can be scaled down for more intimate productions. The Houston Center also houses a "black box" theater as well as the

offices and production shops of University Theatre. A **Studio Theatre** addition connected to the Houston Center for the Performing Arts on the southeast side opened in 2008. The Studio Theatre functions as a drama laboratory and contains state-of-the-art technology, including an articulated lighting grid, a makeup lab/classroom and a new lighting and sound control system. The Studio Theatre seats up to 250 people, depending on how the space is configured, and provides a more intimate environment for student and departmental performances.

Hughes Fieldhouse

Located just northwest of College Park and Bearcat Stadium on the Northwest campus, the Carl & Cheryl Hughes Fieldhouse serves as a host site for a wide range of University and community activities. The project represents the single largest public-private partnership in Northwest's 112-year history—and one of the largest public-private partnerships ever in the region. The Hughes Fieldhouse features:

- 137,250 square-foot recreation and multipurpose facility including recreation and exhibition space,
- indoor flooring system,
- 100-yard practice turf,
- 300-meter indoor competition track,
- spectator seating, and
- tiered meeting rooms.

The Hughes Fieldhouse is an estimated \$20 million project with multiple financing sources, including commitments from the University, private support and community support. The facility is named for the Carl and Cheryl Hughes family, who committed a significant gift to the project through the Hughes Family Foundation.

J.W. Jones Union

The opening of this structure in the center of campus in 1952 fulfilled a long-time dream of J.W. Jones, sixth president of the University. In 1966, an addition on the north more than doubled the size of the building. During 1998-2000 the entire facility underwent a complete renovation and reconfiguration of spaces. Dining services, including Bearcat Commons, underwent renovations during the summer of 2013.

Alfred McKemy Center for Lifelong Learning

Located south of the Dean L. Hubbard Center for Innovation, location of the School of Agricultural Sciences, this structure was completed in 1977 and is named after a former member and president of the Board of Regents. Renovated in 2017, it contains a large lecture hall, Commodity Trading Room, computer laboratory and recording studio used to support profession based learning experiences within the School of Agricultural Sciences.

Memorial Bell Tower

Completed in 1971 and refurbished in 1989, and completely renovated in 2004, this 100-foot high structure located in the center of campus dominates the campus vista. The Bell Tower was constructed from funds provided by University friends and alumni and has brass memorial and commemorative plaques, an electric carillon and displays the University seal as it has evolved with name changes from Normal School to University.

Ryland Milner Complex

Named for long-time coach, athletic director and alumnus Ryland Milner, the Complex contains two gymnasiums, tennis courts and Bearcat Stadium, all located on the southwest side of campus.

Uel W. Lamkin Activity Center, named for the University's fifth president, was first opened in 1959. During the 1993-1994 academic year, the facility was the recipient of a \$6 million renovation and enlargement. Included was the total renovation of the existing structure and the construction of north and south additions. The north expansion, called the Northwest Student Recreation Center, houses a suspended jogging track, three basketball courts and five racquetball/handball courts. Included in the south addition is the Fitness Center on the lower level, a lobby on the main level, and offices and meeting rooms for coaches on the top level. The area where basketball and volleyball competition is held has been named the Bearcat Arena. The Arena wood floor was replaced in 2011. Also housed in the Activity Center are classrooms and ticket and concession areas on the main level. The lower level has weight-lifting, dressing rooms and athletic training facilities.

Martindale Hall, opened in 1926, was the original University gymnasium. Remodeled and renovated in 1973-1975, Martindale honors Nell Martindale Kuchs, a faculty member and early leader in women's athletics. Martindale has a regulation-sized basketball court, replaced in 2011, which can be split for two separate activities such as gymnastics, dance and volleyball. The building also contains classrooms, physical education faculty offices, a dance studio and women's dressing rooms.

Bearcat Stadium is a playing field with permanent seating accommodating 6,200 spectators and stadium capacity of 7,500. The field is surrounded by the **Herschel Neil Track**, a resilient all-weather track named after the 1930s Northwest student who held numerous NCAA records. During calendar year 2000, the east grandstand and southeast ticket houses were completely renovated to enhance customer services. In 2002-2003, the west grandstand and pressbox were replaced by an enlarged facility featuring chairback, railback and traditional seats, 10 suites, and an upper media/coaching area and filming tower. A new scoreboard was also added with video replay capabilities. The stadium was renamed in 2004 from Rickenbrode to Bearcat Stadium to honor the Northwest family members who helped to fund the replacement structures and additional facilities. In 2007 the natural turf field was replaced by artificial turf and officially named Tjeerdsma Field to honor the success of Melvin L. Tjeerdsma, the former head football coach. Lights were also added to allow for night use.

Athletic Grounds Support Building, constructed in 2006-2007, is located west of the Ron Houston Center for the Performing Arts. It houses athletic field equipment, paint supplies, lawn equipment, and employee support functions.

The **Frank W. Grube Tennis Courts**, completed in 1981, are named after the long-time Department of English chairperson and first varsity tennis coach of the University.

Bearcat Field is the home of the Bearcat baseball team and is located on the west campus, and has a grass infield, a scoreboard and press box facility.

A **Softball Field** was constructed in 1996 near Phillips Hall on the west side of campus. Home to the Bearcat softball team, the dirt infield is made from aqualime, a textured soil that allows moisture to go through to the ground.

Mozingo Outdoor Education Recreation Area (MOERA)

A 315-acre rural lake front tract of land located at Mozingo Lake, MOERA is designed for student and community education/recreation activities. Facilities include a challenge course consisting of an Alpine tower, Odyssey III tower, Carolina climbing wall, and group dynamics low element obstacle stations; courtesy dock; a trap and skeet range which can also be used for target archery; a biology research area; a small astronomy observatory and outdoor telescope viewing area; and biology/astronomy and health, physical education, recreation and dance department working/storage buildings. A mixture of walking trails and gravel roads exist throughout the acreage.

B.D. Owens Library

Named for the eighth president of the University, this limestone and glass structure, located near academic facilities as well as residence halls, opened in 1983. With more than 100,000 square feet of space, Owens Library is designed to meet the library needs of the University well into the future, and to accommodate technological advances in information retrieval systems. Included in Owens Library are personal computers connected to the Electronic Campus network, including a multitude of web-based databases, group and private study rooms, and comfortable seating arranged throughout the open stacks. The library also houses Novel Grounds Coffeehouse featuring Starbucks, which opened summer 2013.

Residence Halls, Suites and Apartments

Located in four areas on campus are 17 structures providing variety in living arrangements and common spaces for students. Residence halls offer integrated living/learning communities well suited for freshmen acclimating to college life. Suites provide a small group living environment desired by sophomore and junior students. Apartments offer a transition to independent living for junior, senior and graduate students.

The **West Complex** includes four **High Rise Residence Halls** that are seven-story buildings located on the west side of campus. Dieterich Hall (for H.R. Dieterich, education faculty), Millikan Hall (for Chloe Millikan, education faculty), Franken Hall (for Katherine Franken, psychology faculty), and Phillips Halls (for Homer T. Phillips, education faculty) are all coed residence halls. **Tower Suites West and Tower Suites East** located between Phillips and Franken were completed in 2004.

The **North Complex** contains Cooper Hall (for Albert H. Cooper, director of extension), and Douglas Hall (for 24-year Regent R.L. Douglas), which are coed residence halls.

The **South Complex** contains Wilson Hall (for Lon Wilson, dean of men), Richardson Hall (for fourth University president Ira Richardson), and Cook Hall (for T.H. Cook, history faculty). During 1999-2000, these connected structures were completely redesigned and renovated to eliminate the traditional dormitory arrangements.

The **East Complex** contains Hudson Hall (for the first woman registrar, Nell Hudson), Perrin Hall (for the first dean of women, Alice R. Perrin), and Roberta Hall (for Roberta Steel, who lost her life after a 1951 residence hall explosion). Roberta Hall was completely renovated during the 1993-94 academic year. Hudson and Perrin Halls were demolished and rebuilt in 2005-2007 to create a modified dormitory arrangement.

Forest Village Apartments (Hawthorne, Sycamore and Willow) were completed in 2004 and are located on the north side of Centennial Drive and include a community building providing lounges and meeting facilities for apartment residents, a convenience store, mailboxes and residential life staff offices. The apartments are fully furnished; consist of two- and four-bedroom styles; include a living room, storage closets and a small kitchen and dining space. These units also contain washer, dryer, refrigerator, dishwasher, garbage disposal, microwave, stove and cable TV.

Jon T. Rickman Electronic Campus Support Center

In 2003 the Electronic Campus Support program staff and operations moved into the former Missouri National Guard Armory built on campus in 1951 when the Missouri National Guard moved to a newly constructed community facility. In 2008 the facility was renamed to honor Dr. Jon Rickman whose long years of service and dedication to continuously advance the electronic learning and working environment for all students, faculty, and staff established Northwest as the Electronic Campus.

The Station

Opened in 1966 as the Taylor Commons dining hall (more recently known as The Conference Center), this facility provides community building lounges and meeting space for West Complex residents, a convenience store, mailboxes and residential life staff offices. It also serves as a

conference center with movable room dividers and state-of-the-art audio/visual capabilities for teleconferences, seminars, meetings and workshops. It houses the Textbook Services Center. Henry Kirby Taylor was the third president of Northwest.

Support Services Complex

Located north of the High Rises, Tower Suites and The Station are structures providing operational space for the majority of the campus physical plant services.

The **Facilities Services Buildings** erected between 2005 and 2009 and house the administrative team as well as the maintenance, key, sign and carpentry shops.

The **Support Services Building** was completed in July 2014 and houses the University Police, Purchasing, Materials Distribution Center (built in 2002), and the Mail/Copy Center. The University Police Department facility offers a large dispatch center which is also built as a storm shelter. Additionally, the new building includes a large conference room, interview rooms, a finger-printing station, evidence rooms, an armory for weapon and equipment storage, and men's and women's locker rooms. Purchasing provides procurement of materials and services for both internal and external customers. Materials Distribution Center is the warehouse facility that houses central stores, central receiving, the moving crew and is the site for the University's surplus auctions.

Thompson-Ringold Building

The building, located north of Wells Hall, was built in 1931 and during the years has housed the Industrial Arts programs; Kenneth Thompson and Howard Ringold were long-time faculty of that department.

Valk Center

Completed in 1970 and named for Donald N. Valk, long-time chair of the Department of Technology, the building during 1993 became the home of the Department of Agricultural Sciences following the closing of the Department of Technology. Facilities within the building include faculty offices, lecture rooms, a computer laboratory, and laboratories for plant science, animal science and soil science. The lower level of Valk, used formerly for warehouse storage, was renovated in 2008-2009. Enhancements include new building entries, exterior stairwells, classrooms, faculty offices, student gathering and display areas for the Humanities and Social Sciences Department. With the movement of the School of Agriculture to the Hubbard Center in Fall 2017, the upper level is utilized for general classrooms by multiple departments and also houses the Army National Guard GOLD program and the Emergency and Disaster Management program.

Wellness Services

Built in 1997, this structure with its pitched roofs in interlocking planes is a distinctive addition to the northwest corner of the campus. It provides a user-friendly environment in which to meet the health care needs of Northwest students living on and off campus. In 2006-2008 a new addition was added to house the Personal Development and Counseling Services and University Wellness Services in the same facility. The facility was renamed to reflect the comprehensiveness of these programs.

Wells Hall

Dedicated in 1939 as the University library, Wells Hall is named for the University's first librarian, Edwin C. Wells. Since the opening of Owens Library, Wells houses faculty and staff offices for Communication; Theatre; and Mass Media, as well as KZLX-LP-FM, KXCV/KRNW-FM, KNWT-TV, classrooms, the *Northwest Missourian* student newspaper, and *Tower* yearbook.

R.T. Wright Farm

The 448-acre R.T. Wright Farm, located 4 miles north of campus adjacent to Hwy. 71, provides opportunities for Northwest students in agricultural sciences majors to gain profession-based experience with beef, swine, dairy, and sheep enterprises as well as row and forage crops. The farm is named after R.T. Wright, former chairperson of the Department of Agricultural Sciences and a recognized leader in agricultural education.

Located at the front door of the farm, the Agricultural Learning Center (ALC) allows producers, consumers and all Northwest students to come together to discuss, learn, and strategize solutions for agriculture and food systems. The 29,500 square foot multipurpose facility houses classrooms, laboratories, exposition, and office spaces designed to support the efforts of the School of Agricultural Sciences.

Governance

The Board of Regents

Under the powers prescribed by law, the Board of Regents functions as the policy-making body of Northwest Missouri State University. The eight-member Board of Regents is entrusted with the formulation of the general, educational and financial policies of the University. In addition, the Board has the power to carry out any further functions which are permitted by its bylaws or by the articles of incorporation.

Northwest Leadership Team (NLT)

The NLT leads Northwest's strategic course and charts daily operations by providing executive leadership for all organizational operational portfolios. Additionally, the NLT is the interface between the university faculty, staff, and students and the Board of Regents.

Extended Leadership Team (ELT)

The ELT not only helps to chart Northwest's strategic course, but it also contributes to the shaping of daily operations. The ELT ensures cross-departmental cooperation, transparency, and widespread input and sharing of information.

Faculty Senate

The Faculty Senate is the representative body of the faculty. According to the Faculty Constitution, "The Faculty Senate develops, formulates, and recommends curricula, policies, and procedures to the appropriate authorities, including but not limited to the Chief Academic Officer, the President of the University, and/or the Board of Regents."

Staff Council

Staff Council contributes to the success of Northwest Missouri State University by supporting the University mission and strategy. The Council serves to facilitate effective communication and engagement between University staff and the University President, Board of Regents, Northwest Leadership Team, and Office of Human Resources.

Deans Council

The mission of the Deans Council is to facilitate the development and implementation of a shared vision with our faculty colleagues so that the academic core at Northwest Missouri State University meets the needs of the constituencies it serves.

Council on Teacher Education

The Council is composed of one member from each School/department's designated teacher education faculty with two teacher education faculty members from the School of Education, one graduate education student and two undergraduate education students. The Council is responsible for establishing standards, curriculum, and degrees in teacher education and in teacher education admission and retention policies.

Graduate Council

The Graduate Council, made up of elected graduate faculty members, graduate students and the dean of the Graduate School, recommends all policies and programs involved with graduate study. It coordinates, with the Faculty Senate, all recommendations for approval of upper-division undergraduate courses which may also be approved for graduate credit if taken by eligible graduate students. The Graduate Council also reviews recommendations from the Council on Teacher Education as these relate to advanced programs in teacher education.

Student Senate

Student Senate is the representative governing body of the Student Government Association, which includes all students. The Senate serves students in many capacities: proposing beneficial changes in University policies, acting as a liaison between students and administration, screening the formation of new organizations, supervising campus-wide elections and approving fund-raising activities on campus.

University Committees

The committees organization provides faculty, students and support and administrative staffs an opportunity to participate in the affairs of the University. The Northwest Leadership Team, in cooperation with the Faculty Senate, coordinates the University committee assignments.

Board of Regents

| | |
|--|-------------|
| John Moore <i>Chair of the Board Term Expires 2023</i> | Raymore |
| Roxanna Swaney <i>Vice Chair of the Board Term Expires 2024</i> | Liberty |
| Stephen Coppinger <i>Term Expires 2027</i> | Kansas City |
| Shanda Durbin <i>Term Expires 2023</i> | St. Joseph |
| Jason Klindt <i>Term Expires 2023</i> | Kearney |
| Deborah Roach <i>Term Expires 2025</i> | Grant City |
| Mel Tjeerdsma <i>Term Expires 2025</i> | Maryville |
| Connor Thompson <i>Student Representative (non-voting)</i> | Kansas City |

Northwest Missouri State University Presidents

| | |
|--------------------------|-----------|
| Clarence Green (interim) | 2022- |
| John Jasinski | 2009-2022 |
| Dean L. Hubbard | 1984-2009 |
| B.D. Owens | 1977-1984 |
| Robert P. Foster | 1964-1977 |
| J.W. Jones | 1945-1964 |
| Uel W. Lamkin | 1921-1945 |

| | |
|--------------------|-----------|
| Ira Richardson | 1913-1921 |
| Henry Kirby Taylor | 1909-1913 |
| Homer Martien Cook | 1907-1909 |
| Frank Deerwester | 1906-1907 |

University Personnel

Northwest Leadership Team

| | |
|--|------------------------|
| President (interim) | Clarence Green, Ed.D. |
| Provost | Jamie Hooyman, Ed.D. |
| Vice President of Finance and Administration | Stacy Carrick, M.B.A. |
| Vice President of Culture (Interim) | Egon Heidendal, Ed.D. |
| Vice President of Student Affairs | Matt Baker, Ed.D. |
| Director of Athletics | Andy Peterson, M.S.Ed. |

Academic Administrative Officers

| | |
|---|---------------------------|
| Provost | Jamie Hooyman, Ed.D. |
| Associate Provost of Academic Operations and Development | Jay Johnson, Ed.D. |
| Associate Provost of Undergraduate Studies and Dean of College of Arts and Sciences | Michael Steiner, Ph.D. |
| Associate Provost of Graduate and Professional Studies | Gregory Haddock, Ph.D. |
| Executive Director of Student Recruiting | Jeremy Waldeier, M.S. |
| Associate Provost of Diversity and Inclusion | Justin Mallett, Ed.D. |
| Director of Northwest-Kansas City | Amy Washam, M.B.A. |

Student Services

| | |
|--|------------------------------|
| Director of Admissions-Operations | Tammi Grow, M.B.A. |
| Assistant Vice President of Admissions & Student Success | Allison Hoffmann, D.B.A. |
| Director, Academic Success and Retention | Leslie Abarr-Cuenca, M.A. |
| Assistant Director, Orientation | Brandi Bix, M.B.A. |
| Assistant Vice President of Student Affairs-Residential & Auxiliary Services | Rose Viau, M.S.Ed. |
| Bursar | Ashley Henggeler, M.B.A. |
| Chief, University Police (Interim) | Amanda Cullin, B.S. |
| Director, Financial Assistance | Charles Mayfield, M.S.Ed. |
| Assistant Director, Wellness Services-Counseling | Kristen Peltz, M.S. |
| Assistant Director, Wellness Services-Operations | Evan Rand, M.B.A. |
| Registrar | Terri Vogel, M.B.A. |
| Coordinator, Student Employment | Paula McLain, M.B.A. |
| Director, International Involvement Center | Thomas Merlot, M.A. |
| Manager, Textbook Services | Scott Yocom, B.S. |
| Assistant Vice President of Diversity and Inclusion | Justin Mallett, Ed.D. |
| Assistant Vice President of Title IX & Equity | William Sabio, M.S.Ed. |

Faculty

Abington, Casey (2010)

Professor—Business
Ph.D.—Kansas State University

Adam, Peter (2008)

Associate Professor—Natural Sciences
Ph.D.—University of California-Los Angeles

Adanin, Kristina (2021)

Assistant Professor—Health Science and Wellness
Ph.D.—Ohio University

Alabasi, Karima (2022)

Assistant Professor—Health Science and Wellness
Ph.D.—Florida University

AlAli, Ali (2021)

Lecturer—Computer Science and Information Systems
M.S.—Northwest Missouri State University

Epe Oyotode Adebile, Renee (2018)

Assistant Professor—Business
Ph.D.—Texas A&M International University

Adkins, Joni (2001)

Director—Computer Science and Information Systems
D.B.A.—Anderson University

Akins, Robyn (2009)

Instructor—Education
Ed.S.—University of Missouri-Kansas City

Akkouche, Dyan (2021)

Assistant Professor—Fine and Performing Arts
M.F.A.—Southern Illinois University

Alexander, Kristina (2003)

Professor—Education
Ed.D.—University of Missouri-Columbia

Anderson, Jessica (2018)

Instructor—Health Science and Wellness
M.S.—Northwest Missouri State University

Atkins, Lori (2018)

Horace Mann/Leet Center Faculty
M.S.Ed.—Northwest Missouri State University

Bai, Hua (2019)

Assistant Professor—Agricultural Sciences
Ph.D.—University of Arkansas

Baker, Jill (2011)

Senior Instructor—Education
M.S.Ed.—Northwest Missouri State University

Bandi, Ajay (2014)

Associate Professor—Computer Science and Information Systems
Ph.D.—Mississippi State University

Barr, Rod (2003)

Director—Agricultural Sciences
Ed.D.—University of Missouri-Columbia

Barton, Amy (2019)

Assistant Professor—Health Science and Wellness
Ph.D.—University of Missouri-Columbia

Bateman, Michelle (2019)

Instructor—Health Science and Wellness
Ph.D.—Oklahoma State University

Baughner, Johanna (2017)

Associate Professor—Education
Ed.D.—University of Missouri-Columbia

Bax, Matthew (2017)

Instructor—Agricultural Sciences
M.S.—Iowa State University

Beck, Shandy (2019)

Instructor—Business
M.B.A.—Northwest Missouri State University

Beemer, Rhonda (2015)

Associate Professor—Health Science and Wellness
Ph.D.—University of Southern Mississippi

Bellamy, Michael (1999)

Professor—Natural Sciences
Ph.D.—Kansas State University

Bergland, Robert (2019)

Associate Professor—Communication and Mass Media
Ph.D.—Purdue University

Biegelson, Daniel (2012)

Senior Instructor—Language, Literature, and Writing
M.F.A.—University of Montana

Bilbo, Katheryn (2014)

Associate Professor—Fine and Performing Arts
M.F.A.—University of Wisconsin

Binette, Kori (2009)

Senior Instructor—Language, Literature, and Writing
M.A.—University of Massachusetts-Amherst

Bishop, Lisa (2004)

Senior Instructor—Business
M.A.—Central Missouri State University

Black, Ashley (2013)

Associate Professor—Language, Literature, and Writing
Ph.D.—University of Alabama

Black, Richard (2008)

Professor—Language, Literature, and Writing
Ph.D.—University of Tulsa

Blackford, Benjamin (2009)

Director—Business
Ph.D.—University of Nebraska-Lincoln

Bochart, Adam (2019)

Instructor—Communication and Mass Media
M.S.—Northwest Missouri State University

Bond, Stacy (2012)

Senior Instructor—Language, Literature, and Writing
M.A.—Northwest Missouri State University

Bottone, Ethan (2020)

Assistant Professor—Humanities and Social Sciences
Ph.D.—Ohio University

Bowlin, Kelsey (2011)

Instructor—Natural Sciences
M.S.—Northwest Missouri State University

Bradley, Jeff (1990)

Senior Instructor—Natural Sciences
M.S.—Oklahoma State University

Britt, Karen (2019)

Assistant Professor—Fine and Performing Arts
Ph.D.—Indiana University

Brooks, Billy (2020)

Instructor—Agricultural Sciences
M.B.A.—Northwest Missouri State University

Brown, Debra (2017)

Assistant Professor—Fine and Performing Arts
Ph.D.—University of Kansas

Brown, Rhonda (2021)

Instructor—Mathematics and Statistics
M.S.Ed.—Northwest Missouri State University

Buck, Erica (2016)

Horace Mann/Leet Center Faculty
M.S.Ed.—Northwest Missouri State University

Butler, Loren (2000)

Professor—Health Science and Wellness
Ph.D.—University of Arkansas

Cabrera, Leticia (2018)

Associate Professor—Natural Sciences
Ph.D.—University of Texas at Austin

Campbell, Alisha (2013)

Associate Professor—Natural Sciences
Ph.D.—University of Tennessee

Campbell, James (2013)

Associate Professor—Natural Sciences
Ph.D.—Texas Tech University

Campbell, Jamie (2021)

Instructor—Business
M.B.A.—Northwest Missouri State University

Campbell, Luke (2016)

Associate Professor—Humanities and Social Sciences
Ph.D.—University of Kansas

Cascio, Jessica (2017)

Assistant Professor—Health Science and Wellness
M.S.—Florida State University

Case, Denise (2015)

Lecturer—Computer Science and Information Systems
Ph.D.—Kansas State University

Casey, Kimberly (2011)

Associate Professor—Humanities and Social Sciences
Ph.D.—University of Missouri-St. Louis

Chakraborty, Himadri (2006)

Professor—Natural Sciences
Ph.D.—Jodavpur University

Chandler, Wayne (2000)

Associate Professor—Language, Literature,
and Writing
Ph.D.—University of Alabama

Chappell, Steven (2012)

Instructor—Communication and Mass Media
M.P.A.—University of Alabama-Birmingham

Chen, Guangzhou (2022)

Assistant Professor—Health Science and
Wellness
ABD—University of Illinois

Chetti, Prasad (2022)

Assistant Professor - Computer Science and
Information Systems
Ph.D.—University of Nebraska - Omaha

Chloupek, Brett (2013)

Associate Professor—Humanities and Social
Sciences
Ph.D.—University of Kansas

Chuang, Shih-Hsien (Johnny) (2018)

Assistant Professor—School of Business
Ph.D.—University of Nebraska-Lincoln

Cline, Keely (2014)

Associate Professor—Health Science and
Wellness
Ph.D.—University of Nebraska-Lincoln

Cline, Cari (2016)

Instructor - Computer Science and
Information Systems
M.S.Ed.—Northwest Missouri State
University

Combs, Crystal (2020)

Instructor - Computer Science and
Information Systems
M.S.—Northwest Missouri State University

Cook, Matthew (2022)

Assistant Professor—Natural Sciences
Ph.D.—University of Missouri-Columbia

Corson, Mark (1998)

Professor—Humanities and Social Sciences
Ph.D.—University of South Carolina

Creason, Sarah (2008)

Senior Instructor—Health Science and
Wellness
M.S. Ed.—Northwest Missouri State
University

Daggs, Joy (2012)

Associate Professor—Communication and
Mass Media
Ph.D.—University of Missouri-Columbia

Dickey, Eric (2009)

Associate Professor—Language, Literature,
and Writing
Ph.D.—University of Minnesota

Dieringer, Gregg (2002)

Professor—Natural Sciences
Ph.D.—University of Texas-Austin

Dimmitt, Elizabeth (2008)

Senior Instructor—Health Science and
Wellness
M.S.—Northwest Missouri State University

Dimmitt, Travis (2018)

Assistant Professor—Education
Ed.D.—University of Missouri

Driskill, Ronda (2018)

Instructor—Agricultural Sciences
M.S.—Iowa State University

Dunnell, Rebecca (2002)

Professor—Fine and Performing Arts
D.M.A.—University of North Carolina-
Greensboro

Ellsworth, Tina (2021)

Assistant Professor—Education
Ph.D.—University of Kansas

Eloe, Nathan (2015)

Associate Professor—Computer Science and
Information Systems
Ph.D.—Missouri University of Technology
and Science

Farnan, Shantel (2011)

Associate Professor—Education
Ph.D.—University of Missouri-Columbia

Fellah, Abdelaziz (2016)

Associate Professor—Computer Science and
Information Systems
Ph.D.—Kent State University

Field, Richard (1993)

Associate Professor—Humanities and Social
Sciences
Ph.D.—Southern Illinois University

Fink, Kurtis (1985)

Associate Professor—Mathematics and
Statistics
D.A.—Idaho State University

Ford, Elyssa (2011)

Associate Professor—Humanities and Social
Sciences
Ph.D.—Arizona State University

Francis, Alisha (2006)

Professor—Health Science and Wellness
Ph.D.—St. Louis University

Fufa, Tolina (2016)

Associate Professor—Business
Ph.D.—Oklahoma State University

Gallaher, John (2003)

Professor—Language, Literature, and Writing
Ph.D.—Ohio University

Gallaher, Robin (2003)

Associate Professor—Language, Literature, and Writing
Ph.D.—Indiana University of Pennsylvania

Gilley, Dawn (2009)

Associate Professor—Humanities and Social Sciences
Ph.D.—University of Missouri-Columbia

Gordon, Wm. Dan (2011)

Associate Professor—Education
Ed.D.—University of Missouri-Columbia

Goswami, Arghya (2015)

Associate Professor—Natural Sciences
Ph.D.—University of Texas-Arlington

Gracey, Jessica (2016)

Associate Professor—Humanities and Social Sciences
Ph.D.—University of Missouri-St. Louis

Greathouse, John (2019)

Associate Professor—Agricultural Sciences
Ph.D.—Colorado State University

Greenidge, Giselle (2019)

Assistant Professor—Health Science and Wellness
Ph.D.—University of North Texas

Haberyan, Kurt (1994)

Professor—Natural Sciences
Ph.D.—Duke University

Haddock, Gregory (1996)

Associate Provost of Graduate and Professional Schools
Ph.D.—University of Idaho

Haile, Brian (1997)

Associate Professor—Mathematics and Statistics
Ph.D.—University of Missouri-Rolla

Harrison, Taylor (2021)

Assistant Professor—Mathematics and Statistics
Ph.D.—North Carolina State University

Haughey, Brandy (2014)

Horace Mann/Leet Center Faculty
M.S.—Northwest Missouri State University

Haughey, Joseph (2013)

Associate Professor—Language, Literature, and Writing
Ph.D.—Grand Valley State University

Herrera, Bronson (2018)

Assistant Professor—Humanities and Social Sciences
Ph.D.—University of Kansas

Hesse, Brian (2002)

Professor—Humanities and Social Sciences
Ph.D.—London School of Economics and Political Science

Hiatt, Rochelle (1997)

Professor—Health Science and Wellness
Ed.D.—University of Missouri-Columbia

Hill, Heather (2018)

Professor—Language, Literature, and Writing
Ph.D.—University of Washington

Hillard, Amy (2022)

Assistant Professor—Health Science and Wellness
Ph.D.—University of Nebraska-Lincoln

Hindemith, Paul (2022)

Assistant Professor—Fine and Performing Arts
D.M.A.—University of Minnesota

Hobbs, Michael (1993)

Professor—Language, Literature, and Writing
Ph.D.—University of North Texas

Holder, Christopher (2021)

Instructor—Business
M.S.—University of Missouri

Holthaus, Catherine (2018)

Instructor—Language, Literature, and Writing
M.A.—Northwest Missouri State University

Hoot, Charles (2015)

Assistant Professor—Computer Science and Information Systems
Ph.D.—University of Illinois-Urbana

Hung, Ming-Chih (2003)

Professor—Humanities and Social Sciences
Ph.D.—University of Utah

Hustad, Vincent (2018)

Instructor—Natural Sciences
Ph.D.—University of Illinois at Urbana-Champaign

Huston, Rachel (2020)

Assistant Professor—Health Science and Wellness
D.P.H.E.—Logan University

Hutcheson, Haley (2018)

Instructor—Mathematics and Statistics
M.S.—University of Missouri-Columbia

Immel, Patrick (2003)

Professor—Fine and Performing Arts
M.F.A.—Southern Illinois University at Carbondale

Ingraham, Nissa (2009)

Associate Professor—Education
Ed.D.—University of Missouri

Islam, Rafiq (1997)

Professor—Natural Sciences
Ph.D.—Kyushu University

Jin, Chanwoo (2022)

Assistant Professor—Humanities and Social Sciences
ABD—University of California - Santa Barbara

Myles Jackson, Miranda (2020)

Assistant Professor—Fine and Performing Arts
M.F.A.—Liberty University

Jacobson, Cris (2014)

Senior Instructor—Health Science and Wellness
M.S.W.—University of Nebraska-Omaha

Jin, Chanwoo (2022)

Assistant Professor—Humanities and Social Sciences
A.B.D.—University of California-Santa Barbara

Joachim, Bayo (1990)

Professor—Communication and Mass Media
Ph.D.—University of Kansas

Johnson, Matthew (1999)

Senior Instructor—Humanities and Social Sciences
M.A.—Northwest Missouri State University

Jones, Brenda (2004)

Senior Instructor—Business
M.B.A.—Northwest Missouri State University

Jorandby, Stephanie (2014)

Associate Professor—Fine and Performing Arts
M.F.A.—Wisconsin Luther College

Jornaz, Abdelmonaem (2017)

Assistant Professor—Mathematics and Statistics
Ph.D.—Missouri University of Science and Technology

Katsion, John (2010)

Associate Professor—Communication and Mass Media
Ph.D.—Regent University-Virginia Beach

Kauzlarich, Laura (2020)

Assistant Professor—Business
D.B.A.—Creighton University

Kibler, Jacqueline (2014)

Associate Professor—Health Science and Wellness
Ph.D.—University of Kansas

Kiene, David (2013)

Associate Professor—Professional Education
Ed.D.—St. Louis University

Kim, Dongwook (Jimmy) (2022)

Assistant Professor—Business
A.B.D.—University of Pittsburgh

Kim, Kyungjoong (2022)

Assistant Professor—Business
A.B.D.—Rutgers University

Kirt, Alex (2017)

Associate Professor—Communication and Mass Media
M.F.A.—Southern Illinois University

Komorech, Heidi (2020)

Horace Mann/Leet Center Faculty
M.S.Ed.—Northwest Missouri State University

Kotteti, Chandra (2021)

Assistant Professor—Computer Science and Information Systems
Ph.D.—Prairie View A&M University

Kreizinger, Joseph (2001)

Professor—Fine and Performing Arts
Ph.D.—University of Nebraska

Lacy, Jacqueline (2014)

Senior Instructor—Agricultural Sciences
M.S.—University of Missouri-Columbia

Lal, Ratan (2021)

Assistant Professor—Computer Science and
Information Systems
Ph.D.—Kansas State University

LaPann, Thomas (2018)

Assistant Professor—Fine and Performing
Arts
M.F.A.—Louisiana State University

Leach-Steffens, Lauren (1998)

Associate Professor—Health Science and
Wellness
Ph.D.—University of Illinois

Leiss, Damon (2016)

Assistant Professor—Health Science and
Wellness
Ph.D.—Capella University

Leiss, Jodie (2016)

Associate Professor—Health Science and
Wellness
Ph.D.—Kansas State University

Lim, Chi Lo (1999)

Professor—Business
D.B.A.—United States International
University

Linville, Diana (2010)

Senior Instructor—Computer Science and
Information Systems
M.S.—Northwest Missouri State University

Long, Terry (2000)

Director—Health Science and Wellness
Ph.D.—University of Utah

Ludwig, Stephen (2001)

Associate Professor—Business
Ph.D.—University of Arkansas

Lynn, Tamara (2017)

Assistant Professor—Education
Ed.D.—University of Missouri-Columbia

Malkawi, Ahmed (2000)

Professor—Natural Sciences
P.D.—University of Maine-Orono

Mason, Andrea (2013)

Horace Mann/Leet Center Faculty
M.A.Ed.—Baker University

McCain, Jason (2019)

Assistant Professor—Health Science and
Wellness
Ph.D.—University of Texas A&M

McGhee, Jay (2013)

Associate Professor—Natural Sciences
Ph.D.—Virginia Polytechnic and State
University

McNeese, Gina (1998)

Instructor—Health Science and
Wellness/Horace Mann
M.S.Ed.—Northwest Missouri State
University

Mei, Feixue (2020)

Assistant Professor—Fine and Performing
Arts
M.F.A.—Virginia Commonwealth University

Meiners, Amanda (2020)

Assistant Professor—Mathematics and
Statistics
Ph.D.—University of Iowa

Meyer, Trevor (2018)

Assistant Professor—Language, Literature,
and Writing
Ph.D.—University of South Carolina

Meziani, Mohammed (2010)

Professor—Natural Sciences
Ph.D.—University of Montpelier II

Michaelsen, Julie (2022)

Horace Mann/Leet Center Faculty
B.S.—Northwest Missouri State University

Miller, Kyle (2022)

Assistant Professor—Communication and
Mass Media
Ph.D.—University of Iowa

Miller, Michael (2016)

Assistant Professor—Agricultural Sciences
Ph.D.—Colorado State University

Mobarok, Mohammad (2022)

Assistant Professor—Agricultural Sciences
Ph.D.—University of Missouri-Columbia

Montenguisse, Heather (2021)

Horace Mann/Leet Faculty
M.Ed.—University of Missouri

Moore, Rebecca (2018)

Assistant Professor—Education
Ed.D.—University of Missouri-Columbia

Mühsam, Armin (2000)

Professor—Fine and Performing Arts
M.F.A.—Montana State University

Myllykangas, Susan (2005)

Professor—Health Science and Wellness
Ph.D.—Indiana University

Naramore, Sarah (2020)

Assistant Professor—Humanities and Social Sciences
Ph.D.—University of Notre Dame

Nickerson, Jeffrey (2008)

Senior Instructor—Business
M.B.A.—Northwest Missouri State University

Offutt, Jason (2005)

Senior Instructor—Communication and Mass Media
M.A.—Central Missouri State University

O'Gwin, Chase (2017)

Assistant Professor—Health Science and Wellness
Ph.D.—University of West Georgia

Olasz, Ildiko (2009)

Associate Professor—Language, Literature, and Writing
Ph.D.—Michigan State University

Olson, Anthony (2000)

Professor—Fine and Performing Arts
D.M.A.—University of Southern California

Palacios Perez, José (2014)

Associate Professor—Language, Literature, and Writing
Ph.D.—Texas A&M

Perez-Hernandez, Oscar (2022)

Associate Professor—Agricultural Sciences
Ph.D.—University of Nebraska-Lincoln

Pickering, Caleb (2021)

Assistant Professor—Fine and Performing Arts
D.M.A.—James Madison University

Pope, John Paul (2002)

Associate Professor—Natural Sciences
Ph.D.—University of Iowa

Prabhakar, Sanjay (2021)

Assistant Professor—Natural Sciences
Ph.D.—State University of New York

Qin, Zhengrui (2016)

Associate Professor—Computer Science and Information Systems
Ph.D.—The College of William and Mary

Rich, Gregory (2013)

Associate Professor—Education
Ed.D.—University of Missouri-Columbia

Richardson, David (2002)

Associate Professor—Natural Sciences
Ph.D.—University of Birmingham

Richardson, William (1999)

Professor—Fine and Performing Arts
D.M.A.—University of Texas-Austin

Riley, Shelley (2009)

Associate Professor—Natural Sciences
Ph.D.—University of Kansas

Rolfes, Luke (2008)

Senior Instructor—Language, Literature, and Writing
M.F.A.—Minnesota State University

Rourke, Brenda (2019)

Assistant Professor—Communication and Mass Media
Ph.D.—University of Connecticut

Royal, Kevin (2015)

Instructor—Agricultural Sciences
M.S.—Northwest Missouri State University

Russell, Doug (1999)

Assistant Professor—Business
M.B.A.—University of Nebraska-Omaha

Rytting, Jenny (2006)

Professor—Language, Literature, and Writing
Ph.D.—Arizona State University

Sadek, Jawad (1994)

Professor—Mathematics and Statistics
Ph.D.—Wayne State University

Sareh, Narges (2021)

Assistant Professor—Education
Ph.D.—East Tennessee State University

Satchell, Jason (2019)

Assistant Professor—Business
D.B.A.—Creighton University

Schairer-Kessler, Cynthia (2019)

Assistant Professor—Education
Ed.D.—Illinois State University

Schieber, Matt (2011)

Senior Instructor—Computer Science and Information Systems
M.B.A.—Northwest Missouri State University

Scofield, Devlin (2015)

Associate Professor—Humanities and Social Sciences
Ph.D.—Michigan State University

Seipel, Sandy (2014)

Assistant Professor—Education
Ed.D.—University of Missouri

Shadinger, David (2009)

Associate Professor—Communication and Mass Media
Ed.D.—Ball State University

Shi, Tiebing (2010)

Associate Professor—Business
Ph.D.—Queen's University

Shields, Mary (2012)

Horace Mann/Leet Center Faculty
M.S.Ed.—Northwest Missouri State University

Shin, Kyoung-Ho (1999)

Professor—Health Science and Wellness
Ph.D.—Kansas State University

Sipling, Sarah (2016)

Associate Professor—Fine and Performing Arts
M.F.A.—Rhode Island School of Design

Skinner, H. Machele (2019)

Assistant Professor—Health Science and Wellness
D.N.P.—University of Missouri

Smith, Linda (2016)

Associate Professor—Professional Education
Ph.D.—Iowa State University

Smith, S. Rená (2010)

Senior Instructor—Natural Sciences
M.S.Ed.—Northwest Missouri State University

Sonnenmoser, Richard (2008)

Professor—Language, Literature, and Writing
M.F.A.—University of Massachusetts

Sprague, Stuart (2018)

Assistant Professor—Agricultural Sciences
Ph.D.—Kansas State University

Steiner, Michael (1997)

Associate Provost/Dean College of Arts and Sciences
Ph.D.—St. Louis University

Strickland, Ashley (2021)

Assistant Professor—Education
Ed.D.—University of Missouri-Columbia

Strickland, Kathryn (2013)

Associate Professor—Fine and Performing Arts
Ph.D.—Louisiana State University

Swafford, Brian (2011)

Senior Instructor—Communication and Mass Media
M.A.—Ohio University

Swink, Brian (2015)

Senior Instructor—Mathematics and Statistics
M.S.—Northwest Missouri State University

Symonds, Matt (2002)

Professor—Health Science and Wellness
Ed.D.—University of Missouri-Columbia

Tabor, Kamala (2016)

Instructor—Humanities and Social Sciences
M.Ed.—University of Washington

Tapps, Tyler (2014)

Associate Professor—Health Science and Wellness
Ph.D.—Oklahoma State University

Tasi, Csilla (2009)

Senior Instructor—Mathematics and Statistics
M.S.—Northern Arizona University

Taylor, Alex (2020)

Assistant Professor—Agricultural Sciences
Ph.D.—University of Missouri-Columbia

Taylor, Sara (2019)

Assistant Professor—Education
Ph.D.—University of California

Ternus, Dana (2014)

Senior Instructor—Humanities and Social Sciences
M.A.—Northwest Missouri State University

Thornsberry, Gretchen (2009)

Associate Professor—Natural Sciences
Ph.D.—North Carolina State University

Thornsberry, Jeffrey (2003)

Associate Professor—Natural Sciences
Ph.D.—University of Missouri

Tobin, Malinda (2008)

Senior Instructor—Business
M.B.A.—Northwest Missouri State University

Tomasso, Joseph (2017)

Assistant Professor—Fine and Performing Arts
D.M.A.—University of Cincinnati

Toomey, Deborah (2006)

Associate Professor—Business
D.B.A.—Anderson University

Toomey, Richard (1999)

Associate Professor—Natural Sciences
Ph.D.—Brandeis University

Tott, Katherine (2020)

Instructor—Natural Sciences
M.S.—Iowa State University

Trussell, Sheby (2020)

Instructor—Business
M.B.A.—Northwest Missouri State University

Tu, Zhiling (2016)

Associate Professor—Computer Science and Information Systems
Ph.D.—McMaster University

Tuell, Jacob (2022)

Assistant Professor—Agricultural Sciences
A.B.D.—Purdue University

Uhl, Jonathan (2022)

Assistant Professor—Humanities and Social Sciences
A.B.D.—Penn State University

Vaught, Michelle (2014)

Horace Mann/Leet Center Faculty
M.S.Ed.—Northwest Missouri State University

Veasey, Michele (2009)

Instructor—Health Science and Wellness
M.S.Ed.—Northwest Missouri State University

Velarde, Rachel (2022)

Assistant Professor—Fine and Performing Arts
D.M.A.—Arizona State University

Vlieger, David (2002)

Assistant Professor—Mathematics and Statistics
M.S.—University of Missouri-Rolla

Voss, Robert (2013)

Associate Professor—Humanities and Social Sciences
Ph.D.—University of Nebraska-Lincoln

Walker, James (1996)

Professor—Business
Ph.D.—University of Texas

Walker, Matthew (2001)

Director—Communication and Mass Media
Ph.D.—University of Missouri-Columbia

Wall, Jennifer (2005)

Associate Professor—Mathematics and Statistics
Ph.D.—University of Missouri-Kansas City

Wall, Timothy (2013)

Professor/Dean—Education
Ed.D.—University of Missouri-Columbia

Wanorie, Tekle (2004)

Professor—Business
Ph.D.—University of Alabama

Warner, Patricia (2013)

Senior Instructor—Natural Sciences
M.S.Ed.—Northwest Missouri State University

Watkins, Clifton (2018)

Assistant Professor—Natural Sciences
Ph.D.—University of Alabama

Watkins, Veronica (2018)

Assistant Professor—Fine and Performing Arts
M.F.A.—Southern Illinois University-Carbondale

Wilcox, Kenton (2000)

Senior Instructor—Language, Literature, and Writing
M.A.—Northwest Missouri State University

Wilson, Kylie (2021)

Assistant Professor—Communication and Mass Media
Ph.D.—West Virginia University

Winters, Sarah (2022)

Horace Mann/Leet Center Faculty
B.A.—University of California-Santa Barbara

Wood, Racheal (2021)

Horace Mann/Leet Center Faculty
A.A.—Grossmont College

Wu, Yi-Hwa (2004)

Professor—Humanities and Social Sciences
Ph.D.—University of Utah

Yang, Fan (Ellie) (2022)

Assistant Professor—Communication and Mass Media
A.B.D.—University of Wisconsin-Madison

Yocom, Erika (2014)

Horace Mann/Leet Center Faculty
M.S.Ed.—Northwest Missouri State
University

Zeliff, Nancy (1987)

Professor—Computer Science and
Information Systems
Ph.D.—University of Missouri-Columbia

Zrust, Adam (2021)

Assistant Professor—Fine and Performing
Arts
Ph.D.—Florida State University

Emeriti Faculty**Albertini, Virgil R. (1965-1998)**

Ph.D.—English

Allen, C. K. (1983-2003)

Ph.D.—Agriculture

Baker, John (1977-2014)

L.L.M.—Business

Barnett, Jerrold (1983-2019)

Ph.D.—Psychology

Bayliss, Andree (1991-1999)

Ed.D.—Curriculum and Instruction

Benson, Christine (1997-2020)

Ph.D.—Mathematics

Benson, Joel (1987-2020)

Ph.D.—History

Bettis, Mervin (1977-1994)

Ph.D.—Agriculture

Bobo, Richard L. (1983-2000)

D.M.—Music

Bohlken, Robert (1970-2000)

Ph.D.—Communication and Theatre Arts

Bouas, Jean (1992-2003)

Ph.D.—Curriculum and Instruction

Bowers, John (1980-2003)

Ph.D.—Psychology, Sociology and
Counseling

Brandon-Falcone, Janice (1991-2011)

Ph.D.—History, Humanities, Political Science
and Philosophy

Brekke, Ann M. (1965-1999)

M.Ed.—Physical Education

Brekke, Jerald D. (1964-1999)

Ph.D.—Political Science

Brown, Gerald (1983-2000)

Ph.D.—Agriculture

Brown, Harold (1973-2009)

Ph.D.—Agriculture

Browning, Edward (1961-2000)

Ph.D.—Accounting, Economics and Finance

Browning, Sharon (1964-1999)

Ph.D.—Marketing and Management

Buerman, Margaret (1998-2009)

Ph.D.—Mathematics and Statistics

Bush, Betty (1983-2002)

Ph.D.—Curriculum and Instruction

Carneal, Tom (1968-2002)

M.A.—History, Humanities and Philosophy

Clark, Deborah (2004-2008)

M.S.—Family and Consumer Sciences

Clark, Judy (1997-2016)

Ph.D.—Computer Science and Information
Systems

Coalter, Terry (2000-2020)

Ph.D.—Finance

Collins, Gary (1978-2001)

Ph.D.—Physical Education

Collins, Herman (1966-1993)

Ed.D.—Technology

Crist, Leroy (1962-1993)

Ed.D.—Technology

Crossland, Barbara (2002-2014)

Ed.D.—Professional Education

Dewhirst, Robert (1983-2016)

Ph.D.—Humanities and Social Sciences

Dodds, Charles W. (1988-2002)

Ph.D.—Geology and Geography

Dougherty, John (1965-1979)

M.A.—Foreign Languages

Drew, Margaret (1996-2014)

Ph.D.—Professional Education

Drews, Patty (1990-2020)

Ph.D.—Geographic Information Science

Easterla, David (1965-2013)

Ph.D.—Natural Sciences

Edmonds, Carole (1996-2017)

Ed.D.—School of Education

Edwards, Margaret A. (1968-1993)

D.M.A.—Music

Eiswert, James (1991-2018)

Ph.D.—Humanities and Social Sciences

Euler, Russell (1982-2017)

Ph.D.—Mathematics and Statistics

Fairchild, Johanne (1978-2001)

Ph.D.—Agriculture

Farlow, Nancy (1989-2021)

M.SEd.—Horace Mann Laboratory School

Farquhar, Edward (1964-2001)

Ph.D.—Chemistry and Physics

Felton, Richard (1981-2007)

M.A.—Geography

Ferguson, Dale Ernest (2002-2009)

Ph.D.—Computer Science/Information Systems

Ferguson, Jeffrey (1987-2016)

Ed.D.—School of Health Science and Wellness

Ferris, Ron (1966-2009)

M.A.—History, Humanities, Philosophy and Political Science

Foley, Nancy (2000-2016)

Ph.D.—Professional Education

Frucht, Rikki (1980-2008)

Ph.D.—History, Humanities and Philosophy

Frucht, Suzanne (1993-2008)

Ph.D.—Biology

Fry, Carrol (1972-2003)

Ph.D.—English

Fulton, Richard (1973-2013)

Ph.D.—Humanities and Social Sciences

Gibson, Christopher (1982-2017)

D.M.A.—Fine and Performing Arts

Gilbert, Steven (1999-2009)

M.B.A.—Marketing and Management

Goad, Craig (1966-2006)

Ph.D.—English

Grispino, Frank (1965-2010)

Ed.D.—Educational Leadership

Hagan, Donald (1965-2000)

Ed.D.—Geology and Geography

Hanson, Linda (1983-2003)

M.B.A.—Accounting, Economics and Finance

Hart, Richard (1962-1990)

Ph.D.—Biology

Heeler, Linda (1981-2014)

M.S.Ed.—Horace Mann

Heeler, Phillip (1981-2014)

Ph.D.—Computer Science and Information Systems

Heusel, Barbara (1990-2005)

Ph.D.—English

Higginbotham, Harlan K. (1964-1999)

Ph.D.—Chemistry and Physics

Hinckley, William (1968-1998)

Ed.D.—Educational Leadership

Hollingsworth, Lynda (1982-2017)

M.S.—Mathematics and Statistics

Horner, Channing (1967-2006)

M.A.—Communication, Theatre and Languages

Horner, Louise (1992-2006)

Ph.D.—Communication, Theatre and Languages

Hoskey, Marvin (1978-2003)

Ph.D.—Agriculture

Hurst, Jean (1988-2002)

M.A.—English

Jelavich, Mark (1981-2012)

Ph.D.—Accounting, Economics and Finance

Jewell, Duane K. (1984-2003)

Ph.D.—Agriculture

Jewett, Mike (1969-2000)

Ph.D.—English

Kenkel, Cindy (1998-2021)

M.B.A.—Business

Kennedy, Madonna Davis (1978-2001)

M.A.—Library

Kharadia, Virabhai (1973-2010)

Ph.D.—Accounting, Economics and Finance

King, Terry (1981-2008)

Ph.D.—Mathematics and Statistics

Kramer, Ernest (1985-2021)

Ph.D.—Fine and Performing Arts

Kramer, Gerald H. (1988-1999)

Ph.D.—Marketing and Management

Laber, Phil (1976-2015)

M.F.A.—Fine and Performing Arts

Lanier, Brian (2002-2021)

Ph.D.—Fine and Performing Arts

Larson, J. Arley (1987-2020)

Ph.D.—Agricultural Sciences

Leeper, Kathie (1976-2000)

Ph.D.—Speech

Leeper, Roy (1980-2000)

J.D.—Speech

Lindaman, Arnold D. (1989-2001)

Ph.D.—Educational Leadership

Lister, Ina Claire (1995-2002)

Ed.S.—Educational Leadership

Loomis, Jeffrey (1990-2017)

Ph.D.—Language, Literature and Writing

Lucido, Patricia (1979-2008)

Ph.D.—Chemistry and Physics

Lucido, Phil (1971-2012)

Ph.D.—Biological Sciences

Malm, Cheryl (1989-2021)

Ph.D.—Mathematics and Statistics

Marta, Janet (1999-2018)

Ph.D.—Business

Mayer, Nancy (2000-2013)

Ph.D.—English and Modern Languages

McCall, Carolyn (1986-2011)

Ph.D.—Curriculum and Instruction

McDonald, Gary (1971-2015)

Ph.D.—Computer Science and Information Systems

McDonald, June (1984-2002)

D.M.A.—Music

McDonald, Kendall (1975-2002)

Ph.D.—Mathematics

McDonald, Merry (1970-2015)

Ph.D.—Computer Science and Information Systems

McLaughlin, David (1978-2011)

Ph.D.—Political Science

McLaughlin, J. Patrick (1978-2014)

J.D.—Business

Midland, Dale (1961-1995)

M.A.Ed.—English

Miller, Peggy (1969-2001)

Ph.D.—Family and Consumer Sciences

Moss, Martha (1958-1994)

M.S.Ed.—Marketing and Management

Moss, Ron (1966-1999)

Ph.D.—Computer Science/Information Systems

Mothershead, Harmon (1965-1996)

Ph.D.—History and Humanities

Mull, Sandra (1969-2001)

M.A.—Physical Education

Murphy, Kathryn (1972-1997)

M.A.—Library

Nagle, Jean S. (1965-1992)

Ph.D.—Sociology

Nelsen, Kenneth (1975-2003)

M.F.A.—Art

Nichols, Elaine (2000-2005)

M.S.—Mathematics and Statistics

Northup, Russell P. (1990-2004)

M.B.A.—Marketing and Management

Nothstine, Donald (1970-1999)

M.B.A.—Marketing and Management

Padgitt, Dennis (1967-2012)

Ph.D.—Agriculture

Pival, Joyce (2000-2016)

Ed.D.—Education

Reusser, Janet (1992-2016)

Ed.D.—Health Science and Wellness

Rhoades, John (1968-1992)

Ed.D.—Technology

Riley, Larry (1971-2008)

Ph.D.—Psychology

Robertson, Terrance (1992-2014)

Ph.D.—Recreation

Rose, George E. (1984-2000)

M.F.A.—Art

Rowlette, Ann (1971-2004)

Ph.D.—Family and Consumer Sciences

Ryan, Joseph (1985-1998)

Ph.D.—Educational Leadership

Sanders, Dean (1999-2011)

Ph.D.—Computer Science/Information Systems

Savage, Dean (1961-1991)

Ed.D.—Educational Administration

Schaffer, Karen (1991-2018)

Ph.D.—University of Iowa

Schultz, Charles (1976-2002)

Ph.D.—Communication and Theatre Arts

Schultz, Patricia Bowers (1985-2002)

D.M.A.—Music

Sergel III, Alfred (1981-2004)

M.S.Ed.—Music

Shanklin, James T. (1966-1999)

M.S.—Accounting, Economics and Finance

Shaw Jr., John (1988-2016)

Ph.D.—Natural Sciences

Slater, David (1970-2004)

Ph.D.—English

Smith, David (1966-2001)

Ph.D.—Biological Sciences

Spradling, Carol (1988-2020)

Ph.D.—Computer Science and Information Systems

Spradling, Kim (1984-2014)

Ph.D.—Fine and Performing Arts

Steffens, Shirley (1995-2017)

Ph.D.—Education

Strauch, Jody (1993-2020)

Ph.D.—Mass Media

Thompson, Patricia (1984-2017)

M.S.Ed.—Education

Thomson, Nancy (1981-2001)

Ph.D.—Computer Science/Information Systems

Tjeerdsma, Carol (1995-2011)

M.A.—Curriculum and Instruction

Trowbridge, William (1971-1998)

Ph.D.—English

Ury, Gary (1996-2011)

Ed.D.—Computer Science/Information Systems

Van Zomeren, Wayne (1966-1998)

M.A.—Psychology

Vetter, Rheba (2002-2016)

Ph.D.—Health Science and Wellness

Von Holzen, Roger (1987-2020)

Ph.D.—Computer Science and Information Systems

Weymuth, Richard (1980-2001)

Ph.D.—Music

Widmer, Laura (1983-2013)

M.S.—Communication and Mass Media

Wilson, Michael (1986-2011)

Ph.D.—Accounting, Economics and Finance

Wilson, Nancy (1975-2004)

M.S.Ed.—Curriculum and Instruction

Woodruff, Ernest (1976-2012)

D.M.A.—Music

Woods, Roger (1981-2008)

M.B.A.—Accounting, Economics and Finance

Wright, Gerald (1969-2000)

Ed.S.—Curriculum and Instruction

Zweifel, Thomas (1985-2019)

Ph.D.—Agronomy

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