

## Northwest Missouri State University School of Computer Science and Information Systems Computer Science Comprehensive Major - No Minor Required Bachelor of Science

Term 1	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
77-101	University Seminar		1	,
10-111	Composition I		3	
29-102	Fundamentals of Oral Communication		4	
44-101	Foundation of Computing		3	
44-141	Computer Programming I	2 units of high school algebra and either CSIS 44101 OR CSIS 44130 with a grade of C or better, or School director's permission	3	
		Total Hause	1.0	
		Total Hours	14	
Term 2	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
10-112	Composition II	ENGL 10-111	3	
17-118	Pre-Calculus Algebra (Option B)*	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	3	
44-241	Computer Programming II	CSIS 44141 with a grade of C or better	3	1
	Fine Arts		3	
	Life Sciences/ Lab		4	
		Total Hours	16	
Term 3	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
44-356	Network Fundamentals	CSIS 44130 or CSIS 44101 with a grade of C or better	3	2
44-242		CSIS 44241, and MATH 17114	2	
	Data Structures	or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor	3	2
44-296	Data Structures  Professional Development Seminar	or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or	3	
44-296 17-114		or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor  Sophomore standing and CSIS 44141  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		
	Professional Development Seminar  General Stats (Option B)*	or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 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	3	
	Professional Development Seminar	or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor  Sophomore standing and CSIS 44141  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	3	
	Professional Development Seminar  General Stats (Option B)*	or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor  Sophomore standing and CSIS 44141  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	3	
	Professional Development Seminar  General Stats (Option B)*	or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 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	3 3	Milestone/Notes

<sup>=</sup> a milestone course completed by end of year 1 to remain on pace to finish degree requirements in four years.

= a milestone course completed by end of year 2 to remain on pace to finish degree requirements in four years.

= a milestone course completed by end of year 3 to remain on pace to finish degree requirements in four years.

= a milestone courses taken in final year to complete degree requirements.



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	Elective		3	
	Approved CS/IS Elective		3	
44-561	Software Engineering Principles	Prerequisites: CSIS 44242 and CSIS 44460 with a grade of C or better	3	Fall only
44-525	Theory & Imp Programming Language	CSIS 44242 and CSIS 44249, with grades of C or better, or consent of instructor	3	Fall only
44-550	Operating Systems	CSIS 44345, with a grade of C or better	3	Fall only
Term 7	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
		Total Hours	15	
	Humanities		3	
	Approved CS/IS Electives	J. Jetter	6	
44-349	Survey of Algorithms	CSIS 44242 and CSIS 44249 each with a grade of C or better	3	Spring only
10-220	Intro to Literature		3	
Term 6	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
		Total nours	12	
		Total Hours	15	
	Social & Deflavioral Sciences		<u> </u>	
	Approved CS/IS Electives (300+ Level) Social & Behavioral Sciences		6 3	
17-316	Linear Stat Model I (Option B)*	MATH 17114 or consent of instructor		
7-316	Civics- History	A minimum grade of C in	3	
erm 5	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
		Total Hours	15	
	Humanities		3	
44-249	Building Blocks of Theoretical CS	44141 and any of the following: MATH 17117 or MATH 17118 or MATH 17120		
		minimum grade of C in CSIS	3	2
34-102 14-249	Intro to American Government & Politics	Sophomore standing and a	3	
4 102	Computer Organization	semester of chemistry, physics, or physical science	2	2
		CSIS 44242, with a grade of C or better, and one	3	Spring only

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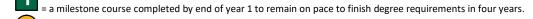


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Total Hours			15	
Term 8	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
	Approved CS/IS Elective		3	
44-562	Software Engineering II	CSIS 44561 with a grade of C or better	3	Spring only
	Social & Behavioral Sciences		3	
	Electives		5	
Total Hours				

<sup>\*</sup>Schedule shows Math Option B. Students may elect for Math Option A instead. If Math Option A is chosen, then make the following substitutions:

- Spring year 1-replace 17-118 Pre-calculus Algebra with 17-117 Pre-calculus (4hours)
- Fall year 2-replace 17-114 General Statistics with 17-120 Calculus (4 hours)
- Fall year 3-replace 17-316 Linear Stat Model I with 17-114 General Statistics



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<sup>\*\*</sup>Taking Fundamentals of Classical Physics I & Lab (5 hours) will reduce elective hours by 1.