



Term 1	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
17-117	Precalculus		5	Minimum ACT math score of 24 OR minimum high school GPA 3.8 OR minimum grade of C in MATH 17082 OR concurrent with MATH 17017
29-102	Fund of Oral Communication		3	
77-101	University Seminar		1	
	Digital Literacy		3	
24-114/115	General Chemistry I & Lab		4	
Total Hours			16	
Term 2	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
44-141	Computer Programming I		3	
24-116/117	General Chemistry II & Lab	Gen Chem I & Lab	5	
04-106/107	Principles of Biology & Lab		4	
17-120	Calculus I	Precalculus OR Precalculus Algebra AND Trigonometry	4	ACT Math score of at least 27, or high school FPA of 3.9 recommended
Total Hours			16	
Term 3	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
17-121	Calculus II	Calculus I	5	
24-342/343	Organic Chemistry I & Lab	General Chemistry II & Lab	4	
25-120/121	Classical Physics I & Lab	Calculus I	5	FALL ONLY
33-155 OR 33-156	Civics: History		3	
Total Hours			17	
Term 4	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-310	Cell Biology	Principles of Biology & Lab AND Gen Chemistry II & Lab	4	
34-102	Civics: Political Science		3	
17-114	General Statistics		3	ACT Math score of 33 or higher, high school GPS of 3.00 or higher OR concurrent with Strategies for General Statistics
25-230/231	Classical Physics II & Lab	Classical Physics I & Lab AND Calculus II	5	SPRING ONLY
Total Hours			15	

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



Term 5	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-350	Genetics	Principles of Biology & Lab	4	
25-430	Optics	Calculus II	3	FALL EVEN YEARS
48-314	Nanoscale I	Calculus I, Calculus II, General Chemistry I & Lab, General Chemistry II & Lab, Classical Physics I & Lab, Classical Physics II & Lab, Organic Chemistry I AND Junior Standing	4	FALL EVEN YEARS
25-420	Advanced Physics Laboratory	Classical Physics II & Lab AND Calculus III	1	
10-111	Composition I		3	
Total Hours			15	
Term 6	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
10-112	Composition II	Composition I	3	
48-315	Nanoscale II	Calculus I, Cell Biology, Classical Physics I & Lab, Classical Physics II & Lab AND Junior Standing	4	SPRING ODD YEARS
25-352	Modern Physics	Classical Physics II & Lab	3	SPRING ODD YEARS
	Approved Physics Emphasis Elective		3-4	See list below
Total Hours			13-14	
Term 7	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
25-350	Intro to Quantum Mechanics	Classical Physics II & Lab	3	FALL ODD YEARS only
	Social & Behavior Science		3	
10-220	Intro to Literature		3	
	Elective		3	
	Fine Art		3	
Total Hours			15	

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Term 8	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
	Approved Physics Emphasis Elective		3-4	See list below
	Social & Behavioral Science		3	
39-276	Biomedical Ethics		3	
	Humanities		3	
25-450	Computational Physics	Classical Physics II & Lab AND Computer Programming I	3	SPRING EVEN YEARS only
Total Hours			12-13 15-16	

Approved Physics Emphasis Electives				
17-321	Calculus III	Calculus II	4	FALL ONLY course
17-361	Differential Equations	Calculus II	3	SPRING ONLY course
24-135	Laboratory Safety	General Chemistry I & Lab	2	SPRING ONLY course
24-552/555	Advanced Inorganic Chemistry & Lab	Physical Chemistry I & Lab	3	SPRING ONLY course
25-479	Undergraduate Research	Permission of Instructor	1-3	
25-330	Electricity & Magnetism I	Classical Physics II & Lab	3	FALL EVEN YEARS only
25-332/333	Electronics & Lab	Classical Physics II & Lab	4	SPRING ODD YEARS only
25-360	Quantum Mechanics	Classical Physics II & Lab AND Calculus III	3	SPRING EVEN YEARS only

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