



Term 1	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
17-117	Precalculus	Precalc: Minimum ACT Math 22 or high school GPS of 3.5	5	
29-102	Fundamentals of Oral Communication		3	
77-101	University Seminar		1	
10-111	Composition I		3	
24-114/115	General Chemistry I & Lab		4	Enrolling in General Chemistry 112/113 should be considered prior to General Chemistry II if a rigorous high school Chemistry background is absent. Similar considerations without proficiency in high school Algebra II.
Total Hours			16	
Term 2	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
10-112	Composition II	Composition I	3	
24-116/117	General Chemistry II & Lab	General Chemistry I & Lab	5	
04-106/107	Principles of Biology & Lab		4	
17-120	Calculus I	Precalculus OR Precalculus Algebra AND Trigonometry	4	
Total Hours			16	
Term 3	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
24-342/343	Organic Chemistry I & Lab	General Chemistry II & Lab	4	Fall only course
25-120/121	Classical Physics I & Lab	Calculus I	5	
	Digital Literacy		3	
17-121	Calculus II	Calculus I	5	
Total Hours			17	
Term 4	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
17-114	General Statistics	ACT Math Score of 22 or higher, high school GPA 3.0 or higher OR Strategies of General Statistics concurrently	3	
25-230/231	Classical Physics II & Lab	Classical Physics I & Lab AND Calculus II	5	
04-310	Cell Biology	Principles of Biology & Lab AND General Chemistry I & Lab AND General Chemistry II & Lab	4	
10-220	Intro to Literature		3	
Total Hours			15	

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4


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Term 5	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-350	Genetics	Principles of Biology & Lab	4	
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 ONLY
24-322/323	Analytical Chemistry & Lab	General Chemistry II & Lab	4	
	Fine Art		3	
Total Hours			15	
Term 6	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
	Approved Chemistry Emphasis Electives		4	Minimum of 12 hours of approved chemistry emphasis electives required.
48-315	Nanoscale II	Calculus I, Cell Biology, Classical Physics I & Lab, Classical Physics II & Lab AND Junior Standing	4	SPRING ODD YEARS ONLY
	Civics: History		3	
	Social & Behavioral Sciences		3	
Total Hours			14	
Term 7	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
	Humanities		3	
	Civics: Political Science		3	
	Approved Chemistry Emphasis Electives		5	Minimum of 12 hours of approved chemistry emphasis electives required.
24-532	Physical Chemistry I	General Chemistry II & Lab, Classical Physics I & Lab, And Calculus II	3	Fall only course
Total Hours			14	
Term 8	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
24-552/555	Advanced Inorganic Chemistry & Lab	Physical Chemistry i	5-7	
	Social & Behavioral Sciences		3	
39-276	Biomedical Ethics		3	
	Elective		3	
Total Hours			14-16	

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Approved Chemistry Emphasis Electives - Minimum of 10 credit hours

24-135	Laboratory Safety	General Chemistry I & Lab	2	
24-344 & 24-345	Organic Chemistry II Lecture and Lab	Organic Chemistry I & Lab	4	Spring only Must be taken concurrently
24-499	Special Investigations in Chemistry	Permission of instructor	1-3	
24-522 & 24-522	Instrumental Analysis Lecture and Lab	Analytical Chemistry & Lab	4	Spring only Must be taken concurrently
24-533	Physical Chemistry I Lab	General Chemistry II & Lab, Fundamentals of Classical Physics I, Calculus II	1	Must be taken concurrently with Physical Chemistry I
24-534 & 24-535	Physical Chemistry II Lecture & Physical Chemistry II Lab	Physical Chemistry I & Lab	4	Must be taken concurrently
24-562	General Biochemistry	Organic Chemistry I & Lab	3	Fall only
24-563	General Biochemistry Lab	Take concurrently with Gen Biochem or Gen Biochem is the pre-req	1	Fall only
24-566	Macromolecular Structure Lecture	General Biochemistry & Lab	3	Spring only
24-567	Macromolecular Structure Lab	General Biochemistry & Lab	1	Spring only Must be taken with 24-567
25-420	Advanced Physics Laboratory	Fundamentals of Classical Physics II & Lab, Calculus II	1	
25-430	Optics	Calculus II	3	

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