

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 I 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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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,	4	FALL EVEN YEARS ONLY
		General Chemistry I & Lab,		
		General Chemistry II &		
		Lab, Classical Physics I &		
		Lab, Classical Physics II &		
		Lab, Organic Chemistry I		
		and Junior Standing		
24-322/323	Analytical Chemistry & Lab	General Chemistry II & Lab	4	
24 522/525	Fine Art		3	
	The Au	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,	4	SPRING ODD YEARS ONLY
48-315	Natioscale II	Classical Physics I & Lab,	4	SPRING ODD TEARS ONE
		Classical Physics I & Lab,		
		AND Junior Standing		
	Civics: History		3	
	Social & Behavioral Sciences		3	
		Total Hours	14	
Term 7	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
Term /	Humanities	Tre-requisite	3	winestone/ Notes
	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 &	3	Fall only course
		Lab, Classical Physics I &		
		Lab, And Calculus II		
		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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24-135	Laboratory Safety	General Chemistry I &	2	Summer ONLY
		Lab		
24-344 &	Organic Chemistry II Lecture and	Organic Chemistry I &	4	Spring only
24-345	Lab	Lab		Must be taken
				concurrently
24-499	Special Investigations in Chemistry	Permission of instructor	1-3	
24-522 &	Instrumental Analysis Lecture and	Analytical Chemistry &	4	Spring only
24-522	Lab	Lab		Must be taken
				concurrently
24-533	Physical Chemistry I Lab	General Chemistry II &	1	Must be taken
		Lab, Fundamentals of		concurrently with
		Classical Physics I,		Physical Chemistry I
		Calculus II		
24-534 &	Physical Chemistry II Lecture &	Physical Chemistry I &	4	Must be taken
24-535	Physical Chemistry II Lab	Lab		concurrently
24-562	General Biochemistry	Organic Chemistry I &	3	Fall only
		Lab		
24-563	General Biochemistry Lab	Take concurrently with	1	Fall only
		Gen Biochem or Gen		
		Biochem is the pre-req		
24-566	Macromolecular Structure Lecture	General Biochemistry &	3	Spring only
		Lab		
24-567	Macromolecular Structure Lab	General Biochemistry &	1	Spring only
		Lab		Must be taken with 24-
				567
25-420	Advanced Physics Laboratory	Fundamentals of	1	
		Classical Physics II &		
		Lab, Calculus II		
25-430	Optics	Calculus II	3	



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