



Term 1	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
17-117	Precalculus	Minimum ACT math score of 22 OR minimum high school GPA 3.5	5	
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	
10-111	Composition I		3	
04-106/107	Principles of Biology & Lab		4	
17-120	Calculus I	Precalculus Algebra OR Precalculus AND Trigonometry	4	1
	Global Experience		3	
Total Hours			17	
Term 3	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
17-121	Calculus II	Calculus I	5	
	Humanities		3	
25-120/121	Classical Physics I & Lab	Calculus I	5	FALL only
	American Experiences		3	
Total Hours			15	
Term 4	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
17-321	Calculus III	Calculus II	4	
34-102	Intro to American Government		3	
25-230/231	Classical Physics II & Lab	Classical Physics I & Lab AND Calculus II	5	2 SPRING only
	Social & Behavioral Science		3	
Total Hours			15	
Term 5	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-350	Genetics	Principles of Biology & Lab	4	3
25-350	Intro to Quantum Mechanics	Classical Physics II & Lab	3	FALL ODD YEARS only
25-320/321 OR 25-330 OR 25-430	Classical Mechanics & Lab Electricity and Magnetism Optics	Classical Mechanics: General Physics I & Lab AND Calculus II Electricity and Magnetism: Classical Physics II AND Calculus III Optics: Calculus II	4 3 3	Physics Electives Classical Mechanics: FALL ODD YEARS only Electricity and Magnetism & Optics: FALL EVEN YEARS only
10-112	Composition II	Composition I	3	
	Fine Art		3	

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

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

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

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



Total Hours	10-17
--------------------	--------------





Term 6	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-114/115	General Zoology and Lab	Principles of Biology & Lab	4	
25-352 OR 25-450	Modern Physics Computational Physics	Modern: Classical Physics II & Lab Classical Physics II & Lab AND Computer Programming I	3	Modern: SPRING ODD YEARS only Computational: SPRING EVEN YEARS only
24-332/333 OR 25-360	Electronics & Lab Quantum Mechanics	Electronics: Classical Physics II Quantum: Introduction to Quantum OR Physical Chemistry I & Lab AND Calculus III	4 3	<u>Physics Electives</u> Electronics: SPRING ODD YEARS only Quantum: SPRING EVEN YEARS only
17-361	Differential Equations	Calculus II	3	SPRING only
29-102	Fund. Of Oral Communication		3	

Total Hours	13-17
--------------------	--------------

Term 7	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-112/113	General Botany and Lab	Principles of Biology & Lab	4	
25-350	Intro to Quantum Mechanics	Classical Physics II & Lab	3	FALL ODD YEARS only
04-511	Techniques in Biotechnology	Genetics	4	<u>Biology Elective</u> FALL only
25-320/321 OR 25-330 OR 25-430	Classical Mechanics & Lab Electricity and Magnetism Optics	Classical Mechanics: General Physics I & Lab AND Calculus II Electricity and Magnetism: Classical Physics II AND Calculus III Optics: Calculus II	4 3 3	<u>Physics Electives</u> Classical Mechanics: FALL ODD YEARS only Electricity and Magnetism: FALL EVEN YEARS only Optics: FALL EVEN YEARS only
10-220	Intro to Literature		3	
	Elective		3	

Total Hours	10-17
--------------------	--------------

Term 8	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-440	Molecular Biology	Genetics	4	
	Social & Behavioral Science		3	
25-352 OR 25-450	Modern Physics Computational Physics	Modern: Classical Physics II & Lab Classical Physics II & Lab AND Computer Programming I	3	Modern: SPRING ODD YEARS only Computational: SPRING EVEN YEARS only
04-555	Introduction to Bioinformatics	Genetics	3	<u>Biology Elective</u>
24-332/333 OR 25-360	Electronics & Lab Quantum Mechanics	Electronics: Classical Physics II	4 3	<u>Physics Electives</u> Electronics: SPRING ODD YEARS only

-  = 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.



		Quantum: Introduction to Quantum OR Physical Chemistry I & Lab AND Calculus III		Quantum: SPRING EVEN YEARS only
25-489 OR 25-499	Physics Practicum OR Special Investigations in Physics	Permission of Instructor	2	
	Elective		2	
Total Hours			14-18	

1

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

2

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

3

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

4

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