



Term 1	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
44-130 OR. 44-101	Computers and Info Tech OR Foundations of Computing		3	
24-114/115	General Chemistry I & Lab		4	
17-120	Calculus I	Precalculus OR Precalculus Algebra AND Trigonometry	4	
10-111	Composition I		3	
77-101	University Seminar		1	
Total Hours			15	
Term 2	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
44-141	Computer Programming I	Foundations of Computing OR Computers & Info Tech	3	
17-114	General Statistics	ACT Math Score of 22 or higher, High School GPA 3.0 or higher OR concurrent enrollment in Strategies for General Statistics	3	
04-106/107	Principles of Biology & Lab		4	
24-116/117	General Chemistry II & Lab	General Chemistry I & Lab	5	
Total Hours			15	
Term 3	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
44-241	Computer Programming II	Computer Programming I	3	
17-316	Linear Statistical Models I	General Statistics OR Probability and Statistics	3	
17-311	Linear Algebra	Precalculus OR Calculus I	3	
44-155	Intro to Data Science & Data Mining	General Statistics OR Probability and Statistics	3	FALL ODD YEAR COURSE
33-155 OR 33-156	The United States to 1877 OR The United States since 1877		3	
Total Hours			15	
Term 4	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
17-356	Data Mining with Applications	General Statistics OR Probability and Statistics	3	SPRING EVEN YEAR COURSE
54-313	Principles of Management		3	
04-350	Genetics	Principles of Biology & Lab	4	
34-102	Intro to American Government		3	
10-112	Composition II	Composition I	3	
Total Hours			16	
Term 5	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
44-413	Visualization	General Statistics AND Computer Programming I	3	
24-342/343	Organic Chemistry I & Lab	General Chemistry II & Lab	4	FALL ONLY COURSE
44-555	Introduction to Bioinformatics	Cell AND Genetics	3	FALL EVEN YEAR COURSE
	Advisor Approved Elective		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				13	
Term 6	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes	
17-318	Linear Statistical Models II	General Statistics OR Probability and Statistics	3	SPRING ODD YEAR COURSE	
04-440	Molecular Biology	Genetics	4	SPRING ODD YEAR course. Students may choose between Techniques of Biotech & Molecular Biology. Both are recommended. If only opt for one, need 4 additional credit hours.	
29-102	Fundamentals of Oral Communication		3		
44-460	Database Systems	Computer Programming II	3		
	Social & Behavioral Sciences		3		
Total Hours				16	
Term 7	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes	
	Social & Behavioral Sciences		3		
10-220	Intro to Literature		3		
44-317	Management Information Systems	Principles of Management AND Foundations of Computing OR Computers & Info Tech	3		
04-511	Techniques in Biotechnology	Genetics. Recommended to have General Microbiology	4	FALL ODD YEAR course Students may choose between Techniques of Biotech & Molecular Biology. Both are recommended. If only opt for one, need 4 additional credit hours.	
39-275	Professional Ethics		3		
Total Hours				16	
Term 8	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes	
04-140 OR 04-310	General Microbiology OR Cell Biology	Micro: General Biology & Lab OR Principles of Biology & Lab & General Chemistry I & Lab Cell: Principles of Biology & Lab AND General Chemistry I & Lab AND General Chemistry II & Lab	4	Organic Chemistry I & Lab recommended for Cell Biology.	
	Humanities		3		
52-150	Principles of Macroeconomics		3		
55-330	Principles of Marketing		3		
	Fine Arts		3		
Total Hours				16	


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