

# Bachelor of Science in Natural Sciences -- 120 Credits

Area of Concentration: Physics

## GENERAL EDUCATION REQUIREMENTS

### REQUIRED COURSES (RG 6813)

Foundational Courses		CR	Satisfied/Term
Engcmp 0005	Composition I	3	
Engcmp 0006	Composition II	3	
CommRc 0052	Public Speaking	3	
Basic Algebra or Placement Test			
Math 0001	Algebra 1	3	
Quantitative Reasoning (QR) - 1 Course			
<i>Note - a student cannot test out of their QR requirement.</i>			
		3	

### FREE ELECTIVES

Free electives are the balance of credits required for graduation (120) that are not used to satisfy competencies, knowledge areas, major requirements, electives, or any related area required by the department.			
	CR	Satisfied/Term	

### WORLDS OF KNOWLEDGE (RG 6825)

Aesthetic and Creative Expression (RQ 3148)				
Subject	Number	Course Title	CR	Satisfied/Term
			3	
			3	

Global History & Culture (RQ 3149)				
Subject	Number	Course Title	CR	Satisfied/Term
			3	
			3	

Societies & Civics (RQ 3150)				
Subject	Number	Course Title	CR	Satisfied/Term
			3	
			3	

Science & Nature (RQ 3153)				
Subject	Number	Course Title	CR	Satisfied/Term
Biol	0110	Gen Biology 1	3	
Chem	0111	Gen Chem 1	3	

Follow-Up Courses (RQ 3154)				
Subject	Number	Course Title	CR	Satisfied/Term
Biol	0120	Gen Biology 2	3	
Chem	0112	Gen Chem 2	3	

**Each student must take 2 courses in each World of Knowledge. The two courses taken within each World must be from different subjects. A student must take two additional "Follow-Up" courses from any World.**

- >The minimum number of courses taken in the Worlds must be 10.
- >The Follow-Up courses may repeat a subject previously taken in a World.
- >A student cannot use a major required Subject course in one of the Worlds.
- >For example: A Biology student cannot use BIOL 0110 to fulfill a requirement in the Science and Nature World.
- >Students cannot use a course to count both in their QR requirement and one of the Worlds.
- >Students can choose QR and Worlds of Knowledge courses from published course lists.

## MAJOR REQUIREMENTS

Required Courses		CR	Satisfied/Term
Biol 0110	General Biology 1	3	
Biol 0111	General Biology 1 Lab	1	
Biol 0120	General Biology 2	3	
Biol 0121	General Biology 2 Lab	1	
Chem 0111	General Chemistry 1	3	
Chem 0112	General Chemistry 2	3	
Chem 0113	General Chemistry 1 Lab	1	
Chem 0114	General Chemistry 2 Lab	1	
Chem 1342	Physical Chemistry	3	
Chem 1343	Physical Chemistry Lab	1	
Math 0221	Analytic Geom & Calc 1	4	
Math 0231	Analytic Geom & Calc 2	4	
Math 0241	Analytic Geom & Calc 3	4	
Math 1035	Diff Equations with Matrix Th	4	
OR Math 1271	Ordinary Diff Equations	3	
Phys 0150	Physics 1	4	
Phys 0151	Physics 1 lab	1	
Phys 0152	Physics 2	4	
Phys 0153	Physics 2 lab	1	
Phys 0225	Optics	1	
Phys 0400	Classical Mechanics	3	
Phys 0450	Electromagnetism	3	
Phys 0480	Astrophysics	3	
Phys 1300	Quantum Physics	3	
Phys 1400	Advanced lab	1	
<b>Requirement Satisfied</b>		<b>59-60</b>	

Geology Electives			
Complete any 3 credits in Geology and Planetary Science			
	CR	Satisfied/Term	
Geol	3		
<b>Requirement Satisfied</b>	<b>3</b>		

### IMPORTANT INFORMATION:

This sheet is an unofficial representation of the major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.

Updated 10/06/21