## **Natural Science Program**

The Program in Natural Science offers an interdisciplinary major in Natural Science. For this major, students must have the approval of both the Academic Dean and the Chair of the department in which they would have the heaviest concentration of science courses. Natural Science majors who plan to teach at the primary or secondary level are required to also consult with the Chair of the Education Department.

### Requirements for Natural Science Major Degree of Bachelor of Science

Choose a Subject I List of courses from: Biology, Chemistry, Computer Science, Mathematics, or Physics <sup>1</sup> 24-26 Choose a Subject II List of courses from: Biology, Chemistry, Computer Science, Mathematics, Psychology, or 14-16 Physics <sup>1</sup>

Choose a Subject III List of courses from: Biology, Chemistry, Computer Science, Mathematics, Psychology, or 8-9 Physics <sup>1</sup>

Choose a Subject IV List of courses from: Biology, Chemistry, Computer Science, Mathematics, Psychology, or 6-9 Physics

Total Credits 52-60

# **Subject I Lists to Choose From Biology**

BI-183	General Biology I	3
BI-185	General Biology I Lab	1
BI-184	General Biology II	3
BI-186	General Biology II Lab	1
BI-215	Principles of Anatomy and Physiology	4
BI-215L	Principles of Anatomy and Physiology Lab	0
BI-240	Cell and Molecular Biology	4
BI-240L	Cell & Molecular Bio Lab	0
BI-310	Ecology	4
BI-310L	Ecology Lab	0
BI-350	Genetics	4
BI-350L	Genetics Lab	0
Total Credits		24
Chamiatur		

### Chemistry

CH-131L Gen Chem and Qualitative Analysis 1 Lab	
	1
CH-132 General Chem and Qualitative Analysis 2	3
CH-132L Gen Chem and Qualitative Analysis 2 Lab	1
CH-251 Organic Chemistry I	3
CH-251L Organic Chemistry I Lab	1
CH-252 Organic Chemistry II	3
CH-252L Organic Chemistry II Lab	1
CH-329 Analytical Chemistry	3
CH-329L Analytical Chemistry Lab	1

A different subject must be chosen for each of the four Subject List. Additional completion of three credits of Independent Study at the senior level in Subject I to enhance development of the student's science program is encouraged.

Choose one of the follo	wing	4
CH-442	Biochemistry I	
& 442L	and Biochemistry 1 Lab	
BC-492	Biological Chemistry	
& CH-442L	and Biochemistry 1 Lab	
Total Credits		24
Computer Science		
CS/IS-180	Introduction to Programming	3
CS-231	Software Engineering	3
CS/IS-	5 CS or IS Electives (CS-200 or higher or IS-300 or higher)	15
CS-332	Advanced Computing	3
Total Credits		24
Mathematics		
MA-143	Differential Calculus	4
MA-144	Integral Calculus	4
MA-247	Introductory Linear Algebra	3
MA-273	Multivariable Calculus I	4
MA-	2 MA Electives at 300-level or above	6
Total Credits	Z M/Y Elocitos at 600 lovel of above	21
Total Ground		2.
Physics		
PC-185	General Physics I	3
PC-187	General Physics Laboratory I	1
PC-186	General Physics II	3
PC-188	General Physics Laboratory II	1
PC-	Physics Electives, 300-level or above	16
Total Credits		24
Subject II Lists to	Choose From	
Biology		
BI-183	General Biology I	3
BI-185	General Biology I Lab	1
BI-184	General Biology II	3
BI-186	General Biology II Lab	1
BI-240	Cell and Molecular Biology	4
BI-240L	Cell & Molecular Bio Lab	0
BI-350	Genetics	4
BI-350L	Genetics Lab	0
Total Credits	Conolico Lab	16
Chemistry		
CH-131	General Chem and Qualitative Analysis 1	3
CH-131L	Gen Chem and Qualitative Analysis 1 Lab	1
CH-132	General Chem and Qualitative Analysis 2	3
CH-132L	Gen Chem and Qualitative Analysis 2 Lab	1
CH-	2 CH Electives, CH-130 or higher	6
Total Credits		14

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Choose 1 of the following:

#### 4 Natural Science Program

CS-231	Software Engineering	
Total Credits		6
Physics		
PC-185	General Physics I	3
PC-187	General Physics Laboratory I	1
PC-186	General Physics II	3
PC-188	General Physics Laboratory II	1
Total Credits		8
Psychology		
PS-151	Introduction to Psychology	3
PS-200	Statistics & Research Methods	3
PS-205	Experimental Psychology	3
Total Credits		0