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**Liberal Arts**

**48 credit min**

**Effective Spring 2016**

**Biology Core Courses (11-12 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| BIO 105 | Biological Concepts(NS)(XL) | B | (4) \_\_\_\_ |
| **OR** |  |  |  |
| BIO 108 | Honors: Concepts in Bio(NS)(XL) | F | (5) \_\_\_\_ |
| BIO 323 | Intro Molecular & Cell Bio  (Bio 105, Chem 105 and/or C/Chem 106, or Chem 101,102 w/B) | B | (3) \_\_\_\_ |
| BIO 343 | Genetics (NS)(Bio 323) | B | (4) \_\_\_\_ |
| BIO 491 | Senior Survey\*\*\* | B | (0) \_\_\_\_ |

**Required Chemistry and Math Courses (8-10 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 105 | General Chemistry I (NS)(XL) | B | (5) \_\_\_\_ |
| CHEM 106 | General Chemistry II (NS)(XL) | B | (5) \_\_\_\_ |
| **OR** |  |  |  |
| \*CHEM 101 | General, Organic and Biochemistry I (NS)(XL) | B | (4) \_\_\_\_ |
| \*CHEM 102 | General, Organic and Biochemistry II (NS)(XL) | B | (4) \_\_\_\_ |
|  | \*CHEM 105 and 106 recommended |  |  |
| MATH | As specified by COLS requirements |  |  |

**Additional Required Biology Courses (11 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| BIO 230 | Biology of Animals (NS)(XL)(Bio 105) | B | (4) \_\_\_\_ |
| BIO 231 | Biology of Plants and Microbes (NS)(XL)(Bio 105) | B | (4) \_\_\_\_ |
| BIO 349 | Ecology and Evolution (1 term general Bio) | B | (3) \_\_\_\_ |

**One of the following three (5 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| BIO 319 | General Animal Physiology (NS)(1 year gen Chem and Bio 323) | B | (5) \_\_\_\_ |
| BIO 345 | Plant Physiology (NS)(1 term gen Bio, 1 year gen Chem and Bio 231) | S | (5) \_\_\_\_ |
| BIO 450 | Microbial Physiology (NS)(Bio 309) | F | (5) \_\_\_\_ |

**Electives (11-13 Credits\*\*)**

|  |  |
| --- | --- |
| From among Biology courses at the 300-400 level | (11) \_\_\_\_ |
| \*\*If CHEM 101 and 102 was taken, then 13 elective credits required |  |

Pre-requisites in parentheses

S = Spring

F = Fall

B = Both Fall & Spring

C/ = Concurrent enrollment

During their last semester senior students will take the Senior Survey course (BIO 491) at the testing center.

**Must meet General Education and Degree Requirements to earn BS Degree**