



**B.S. Biology: Recommended Course Outline
(2010-2011)**

| YEAR 1-FALL SEMESTER | | | CREDITS | Student | Advisor |
|---------------------------------|-----|------------------------------|---------------|---------|---------|
| 1401 | 101 | Biological Science I (Lec) | 03 | | |
| 1401 | 103 | Biological Science I (Lab) | 01 | | |
| 1535 | 113 | Precalculus w/Trigonometry I | 03 | | |
| 1113 | 111 | English Composition I | 03 | | |
| <i>any one of the following</i> | | | | | |
| 1171, 1173, 1177, 1179 | | Social Science or Humanities | 03 | | |
| 1131, 1161, 1163, 1169 | | | | | |
| 1507 | 111 | General Chemistry I (Lec) | 03 | | |
| 1507 | 113 | General Chemistry I (Lab) | 01 | | |
| TOTAL | | | 17 hrs | | |

| YEAR 1- SPRING SEMESTER | | | CREDITS | Student | Advisor |
|---------------------------------|-----|-------------------------------|---------------|---------|---------|
| 1401 | 102 | Biological Science II (Lec) | 03 | | |
| 1401 | 104 | Biological Science II (Lab) | 01 | | |
| 1535 | 114 | Precalculus w/Trigonometry II | 03 | | |
| 1133 | 112 | English Composition II | 03 | | |
| <i>any one of the following</i> | | | | | |
| 1171, 1173, 1177, 1179 | | Social Science or Humanities | 03 | | |
| 1131, 1161, 1163, 1169 | | | | | |
| 1507 | 112 | General Chemistry II (Lec) | 03 | | |
| 1507 | 114 | General Chemistry II (Lab) | 01 | | |
| TOTAL | | | 17 hrs | | |

| YEAR 2- FALL SEMESTER | | | CREDITS | Student | Advisor |
|-----------------------|-----|---|---------------|---------|---------|
| 1401 | 225 | Invertebrate Zoology (Lec) | 03 | | |
| 1401 | 224 | Invertebrate Zoology (Lab) | 01 | | |
| 1535 | 215 | Calculus for Business, Social and Life Sciences | 04 | | |
| 1133 | 211 | Literature and Advance Writing I | 03 | | |
| 1507 | 231 | Organic Chemistry I (Lec) | 03 | | |
| 1507 | 233 | Ex. Organic Chemistry I (Lab) | 02 | | |
| TOTAL | | | 16 hrs | | |

| YEAR 2- SPRING SEMESTER | | | CREDITS | Student | Advisor |
|----------------------------------|-----|-----------------------------------|---------------|---------|---------|
| 1401 | 235 | Botany (Lec) | 03 | | |
| 1401 | 234 | Botany (Lab) | 01 | | |
| 1133 | 212 | Literature and Advance Writing II | 03 | | |
| <i>any of the following arts</i> | | | | | |
| 1105, 1111, 1121, 1165 | | Fine Arts, Dance, Theater, Music | 03 | | |
| 1507 | 231 | Organic Chemistry II (Lec) | 03 | | |
| 1507 | 233 | Ex. Organic Chemistry II (Lab) | 02 | | |
| TOTAL | | | 15 hrs | | |

| YEAR 3- FALL SEMESTER | | | | CREDITS | Student | Advisor |
|-----------------------|-----|--|--------|---------|---------|---------|
| 1401 | 241 | General Microbiology (Lec) | 03 | | | |
| 1401 | 240 | General Microbiology (Lab) | 01 | | | |
| 1539 | 101 | Introduction to Physics I (Lec) | 03 | | | |
| 1539 | 103 | Introduction to Physics I (Lab) | 01 | | | |
| | | University Elective* | 03 | | | |
| 1157 | | Foreign Language I (French or Spanish suggested) | 03 | | | |
| 1167 | 105 | Philosophy (Logic suggested) | 03 | | | |
| TOTAL | | | 17 hrs | | | |

| YEAR 3- SPRING SEMESTER | | | | CREDITS | Student | Advisor |
|-------------------------|-----|---|--------|---------|---------|---------|
| 1401 | 361 | General Genetics (Lec) | 03 | | | |
| 1401 | 240 | General Genetics (Lab) | 01 | | | |
| 1539 | 101 | Introduction to Physics II (Lec) | 03 | | | |
| 1539 | 103 | Introduction to Physics II (Lab) | 01 | | | |
| | | University Elective* | 02 | | | |
| 1157 | | Foreign Language II (French or Spanish) | 03 | | | |
| TOTAL | | | 13 hrs | | | |

| YEAR 4- FALL SEMESTER | | | | CREDITS | Student | Advisor |
|-----------------------|------------|---|--------|---------|---------|---------|
| 1401 | 493 or 494 | Senior Seminar | 02 | | | |
| 1401 | | Biology Elective (Lec & Lab) 300 level or above | 04 | | | |
| 1401 | | Biology Elective (Lec & Lab) 300 level or above | 04 | | | |
| 1507 | 462 & 463 | Biochemistry I (Lec & Lab)** | 4 | | | |
| TOTAL | | | 14 hrs | | | |

| YEAR 4- SPRING SEMESTER | | | | CREDITS | Student | Advisor |
|-------------------------|--|---|--------|---------|---------|---------|
| 1401 | | Biology Elective (Lec & Lab) 300 level or above | 04 | | | |
| 1401 | | Biology Elective (Lec & Lab) 300 level or above | 04 | | | |
| 1401 (optional) | | Biology Elective (Lec & Lab) 300 level or above | 04 | | | |
| TOTAL | | | 12 hrs | | | |

NOTE: At least 120 college-level credit hours must be obtained to receive a B.S. in Biology. Each student must take 4 biology electives¹ (4 credits, 300 level and above).
¹Cancer Causes and Prevention (200 level course) may be used as Biology elective.
¹Physiology or Ecology (200 level courses) may be used as biology electives.

*University electives are courses of choice along with proper prerequisites, taken in any department.

**Not required, but strongly suggested.

| ADVISORS | | | | |
|-----------------------------|--------------------|------------|--|----------------|
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