

| FRESHMAN | COURSES | CREDITS | TOTAL |
|------------------|---|-----------------------|------------|
| FALL | AIC1140, APEX 1 (or AIC1100 Introduction to ACE (3 cr)) | 1 | 14 |
| | ENG 1200, or ENG1201, English Composition or ENG 1601 (Gen Ed category 4) | 3 | |
| | BIO1400, Biology I with lab BIO1401 (Gen Ed category 1) | 4 | |
| | Gen Ed course (category 2 or 4) | 3 | |
| | Gen Ed course (category 2 or 4) | 3 | |
| SPRING | ENG1202 Analytical Writing or ENG1602 (Gen Ed category 3) | 3 | 17 |
| | BIO1500, Biology II with lab BIO1501 (Gen Ed category 1) | 4 | |
| | MAT1840, College Algebra and Trig | 4 | |
| | Gen Ed course (category 2 or 4) | 3 | |
| | Elective | 3 | |
| SOPHOMORE | | | |
| FALL | BIO2400, Comparative Vertebrate Anatomy, with lab (BIO2401) | 4 | 13 |
| | CHE1600, General Chemistry I (includes CHE1602, Review) | 4 | |
| | CHE1601, General Chemistry Lab I | 1 | |
| | MAT2400, Calculus I | 4 | |
| SPRING | AIC2142, APEX 2 | 2 | 17 |
| | BIO2430, Microbiology, with lab (BIO2431) | 4 | |
| | CHE1700, General Chemistry II (includes CHE1702, Review) | 4 | |
| | CHE1701, General Chemistry Lab II | 1 | |
| | MAT2004, Biostatistics (Gen Ed category 1) | 3 | |
| | Gen Ed course (category 2, 3 or 4) | 3 | |
| JUNIOR | | | |
| FALL | BIO3450, Genetics, with lab (BIO3451) | 4 | 14 |
| | CHE2400, Organic Chemistry I | 3 | |
| | CHE2401, Organic Chemistry Lab I | 1 | |
| | Gen Ed course (category 2, 3 or 4) | 3 | |
| | Gen Ed course (category 2, 3 or 4) | 3 | |
| SPRING | AIC3140, APEX 3 | 1 | 16 |
| | BIO3440, Ecology, with lab | 4 | |
| | BIO3XXX, Biology elective, with lab | 4 | |
| | CHE2500, Organic Chemistry II | 3 | |
| | CHE2501, Organic Chemistry Lab II | 1 | |
| | Gen Ed course (Gen Ed category 2, 3 or 4) | 3 | |
| SENIOR | | | |
| FALL | AIC4140, APEX 4 | 1 | 16 |
| | BIO4803, Senior Seminar in Biology | 3 | |
| | BIO3XXX, Biology elective, with lab | 4 | |
| | PHY1600, General Physics I (with PHY1602, Review) | 4 | |
| | PHY1601, General Physics I lab | 1 | |
| | Elective | 3 | |
| SPRING | BIO4350, Evolution | 3 | 14 |
| | BIO3XXX, Biology elective, with lab | 4 | |
| | PHY1800, General Physics II (with PHY1802, Review) | 3 | |
| | PHY1801, General Physics II lab | 1 | |
| | Elective | 3 | |
| | | TOTAL CREDITS: | 121 |

Notes:

*A student will incur additional tuition charges in any semester in excess of 17 credits.

**A student must apply to the Dean for permission to take more than 18 credits in any given semester.

List of Requirements (all courses are 3 credits unless otherwise noted)

Major Requirements:

All biology majors must complete the following required biology core of courses that include:

| | |
|---------------|--|
| _____ BIO1400 | Biology I, with lab, BIO1401 (4 cr) |
| _____ BIO1500 | Biology II, with lab, BIO1501 (4 cr) |
| _____ BIO2400 | Comparative Vertebrate Anatomy, with lab, BIO2401 (4 cr) |
| _____ BIO3440 | Ecology, with lab, BIO3441 (4 cr) |
| _____ BIO3450 | Genetics, with lab, BIO3451 (4 cr) |
| _____ BIO4350 | Evolution |
| _____ BIO4803 | Senior Seminar in Biology |

And, one of the following courses:

| | | |
|---------------|--|---------------|
| _____ BIO2430 | Microbiology, with lab, BIO2431 (4 cr) | |
| _____ BIO3400 | Cell Biology, with lab, BIO3401 (4 cr) | _____ CREDITS |

All biology majors must complete a minimum of 12 elective credits in biology courses at or above the 3000 level in addition to the required biology core. CHE3200 with laboratory may be accepted as elective courses in biology. No more than one semester of BIO4698, 4798, 4833, or 4834 may be counted towards satisfying the requirements of the biology major.

| | | |
|-----------------|-------|---------------|
| _____ BIO _____ | _____ | |
| _____ BIO _____ | _____ | _____ CREDITS |

All biology majors must also complete the required core in allied fields:

| | | |
|---------------|--|---------------|
| _____ CHE1600 | General Chemistry I, with review CHE1602 and lab CHE1601 (5 cr) | |
| _____ CHE1700 | General Chemistry II, with review CHE1702 and lab CHE1701 (5 cr) | |
| _____ CHE2400 | Organic Chemistry I, with lab CHE2401 (4 cr) | |
| _____ CHE2500 | Organic Chemistry II, with lab CHE2501 (4 cr) | |
| _____ PHY1600 | General Physics I, with review PHY1602 and lab PHY1601 (5 cr) | |
| _____ PHY1800 | General Physics II, with review PHY1802 and lab PHY1801 (5 cr) | |
| _____ MAT2004 | Biostatistics (Gen Ed category 1) | _____ CREDITS |

Additionally, all biology majors must complete two of the following courses:

| | | |
|---------------|---|---------------|
| _____ MAT1840 | College Algebra and Trigonometry (4 cr) | |
| _____ MAT2400 | Calculus I (4 cr) | |
| _____ MAT2500 | Calculus II, with lab MAT2501 (4 cr) | _____ CREDITS |

By appropriate selection of electives, students may focus their studies on any of the following areas:

- Bio-Education (see education department information for professional requirements for teacher education)
- Biomedical (for students interested in medical professions)
- Cell and Molecular Biology
- Ecology/Environmental Science
- General Biology
- Zoology

| Content Category #1: Exploring Scientific World | | | 7 or 10 credits* |
|---|---|--|-------------------------|
| Requirements: 1 Math Course (3 cr) & 1 Science course w/Lab (4 cr). A 2 nd science course*, with or without lab, may be completed in lieu of one INT course. | | | |
| Choose 1 | Math | MAT1430, MAT2004, PSY2302 | |
| Choose 1 | SCIENCE with LAB | BIO1020/1021, BIO1120/1121, BIO1130/1131, BIO1200/1201, BIO1210/1211, BIO1250/1251, BIO1400/1401, BIO1500/1501, CHE1100/1101, CHE1110/1111, PHY1010/1011, PHY1020/1021, PHY1030/1031, PHY1050/1051 | |
| *OPTION: Choose 1 | SCIENCE with/without LAB (Choose this option OR a 3 rd INT, Category 3) | BIO1020/1021, BIO1120/1121, BIO1130/1131, BIO1200/1201, BIO1210/1211, BIO1250/1251, BIO1400/1401, BIO1500/1501, CHE1100/1101, CHE1110/1111, PHY1010/1011, PHY1020/1021, PHY1030/1031, PHY1050/1051 | |
| Content Category #2: Understanding Self and Others | | | 9 credits |
| Requirements: 1 course in each category: Self Context (3 cr), US Context (3 cr), Global Context (3 cr) | | | |
| Choose 1 | Self Context | PSY1200, SOC1100 | |
| Choose 1 | US Context | ECO1401, ECO1402, HST1510, HST1520, PCH1030, POL1400, SOC1400 | |
| Choose 1 | Global Context | ECO1010, HST1400, HST1410, IBS1420, PCH2030, POL1500, SOC2650 | |
| Content Category #3: Exploring Interdisciplinarity | | | 9 or 12 credits* |
| Requirements: ENG1202/1602 (3 cr) AND 2 (or 3*) Interdisciplinary (INT) courses (6 or 9 cr) | | | |
| Choose 1 | Analytical Writing | ENG1202 or ENG1602 | |
| Choose 2 | Interdisciplinary courses | AIC3100, EXS1200, INT1500, INT1600, INT2100, INT2125, INT2200, INT2350, INT2400, INT2460, INT2540, INT2610 | |
| *OPTION: Choose 1 | Interdisciplinary: a 3 rd INT course (OR a science course, Category 1) | AIC3100, EXS1200, INT1500, INT1600, INT2100, INT2125, INT2200, INT2350, INT2400, INT2460, INT2540, INT2610 | |
| Content Category #4: Exploring the Arts and Humanities | | | 9 credits |
| Requirements: 1 course in each category: Arts (3 cr) and Humanities (3 cr) | | | |
| Choose 1 | English Composition | ENG1200, ENG1201 or ENG1601 | |
| Choose 1 | Arts | ART1000, COM2460, COM3290, ENG2325, MUS1000, MUS1020, THR1400, THR1420, VDA2640 | |
| Choose 1 | Humanities | ENG2390, ENG2410, ENG2420, ENG2430, ENG2510, ENG2520, ENG3200, ENG3210, ENG3430, ENG3440, ENG3800, ITL1000, PHI1000, PHI1200, PHI1400, PHI2010, SPA1010, SPA1100, SPA1201, SPA1202 | |
| Content Category #5: Developing Professional Readiness | | | 5 or 7 credits |
| Requirements: APEX 1 – 4 (5 cr) OR AIC1100 (3 cr) & AIC | | | |
| Choose 1 | APEX or ACE | AIC1100 (3 cr) or AIC1140 (1 cr) | |
| Choose 1 | APEX | AIC2142 (2 cr) | |
| Choose 1 | APEX | AIC3140 (1 cr) | |
| Choose 1 | APEX | AIC4140 (1 cr) | |
| Choose 1 (AIC Online or RN to BSN programs only) | APEX for special programs | AIC Online program only: AIC4141 (3 cr) AIC RN to BSN program only: NUR4600 (3 cr) | |