Associate in Science Degree Ashland Community & Technical College

Bachelor of Science Degree in Biology with Minor in Chemistry (5-18-06) Marshall University

| YEAR ONE | | | |
|---|--------|---|-------|
| Fall Semester | Hours | Spring Semester | Hours |
| CHE 105 General College Chemistry I | 3 | CHE 107 General College Chemistry II | 3 |
| CIS 100 Introduction to Computers | 3 | CHE 115 General Chemistry Lab | 3 |
| ENG 101 Writing I | 3 | ENG 102 Writing II | 3 |
| GEO 160 Lands/Peoples (international) | 3 | HIS 104 (or other history course) | 3 |
| MT 150, MA 123 or (113) Alg/Calc | 3(4) | MA 123, MT 155, or ST 291 Math | 3 |
| Free Elective** | 1-(0) | Free Elective** | 1 |
| Total Hours | 16(17) | Total Hours | 16 |
| YEAR TWO | | | |
| Fall Semester | Hours | Spring Semester | Hours |
| BIO 150 Principles of Biology I | 3 | BIO 152 Principles of Biology II | 3 |
| BIO 151 Principles of Biology Lab I | 2 | BIO 153 Principles of Biology Lab II | 2 |
| COM 181 Basic Public Speaking | 3 | PHI 130 Introduction to Philosophy | 3 |
| PHY 211 General Physics | 5 | PHY 213 General Physics | 5 |
| PY 110 Psych (or other social science elective) | 3 | SOC 101 Intro to Sociology (multicultural) | 3 |
| Total Hours | 16 | Total Hours | 16 |
| YEAR THREE | | | |
| Fall Semester | Hours | Spring Semester | Hours |
| BSC 302 Principles of Microbiology | 3 | BSC 320 Principles of Ecology | 4 |
| BSC 304 Microbiology Lab | 2 | BSC 413 (or other Ecology BSC elective) | 3 |
| BSC 322 Principles of Cell Biology | 4 | CHM 356 Organic Chemistry II | 3 |
| CHM 355 Organic Chemistry I | 3 | CHM 361 Intro Organic Chemistry Lab | 3 |
| Foreign Language* | 3 | Foreign Language* | 3 |
| UNI 101 New Student Seminar | 1 | | |
| Total Hours | 16 | Total Hours | 16 |
| YEAR FOUR | | | |
| Fall Semester | Hours | Spring Semester | Hours |
| BSC 301 (or other Biomed BSC elective) | 4 | BSC 324 Principles of Genetics | 4 |
| BSC 365 (or other Cellular BSC elective) | 3 | BSC 491 Capstone Experience | 2 |
| BSC 417 (or other BSC elective***) | 3 | ENG 319 [†] (or other literature elective) | 3 |
| ENG 317 [±] (or other literature elective) | 3 | GEO 317 (international, social science, 300+) | 3 |
| Foreign Language* | 3 | Foreign Language* | 3 |
| | | Free Elective** | 1 |
| Total Hours | 16 | Total Hours | 16 |

^{*}Students are required to complete a 12-hour sequence in a foreign language. Depending on high school background, this will

require 3-12 hours at the college level.

**128 hours of total college credit are required for graduation, 64 must be in the College of Science. 48 of the total hours must be numbered 300-499.

^{***}BSC 104, BSC 105, BSC 227, BSC 228, & BSC 250 do not count as electives for biology majors.

^tOne of these should be a designated Writing Intensive course.