

## Minor in Biological Sciences - Minimum Requirements

|  | BIOL CORE COURSES (18 credits; 10 upper-level)                    | Pre-requisites/Co-requisites                                                                           | credit |
|--|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------|
|  | BIOL 140 - Foundations of Biology: Ecology & Evolution            | MATH 150 or higher or placement in MATH 151                                                            | 4      |
|  | BIOL 141 - Foundations of Biology: Cells, Energy & Organisms      | MATH 150 or higher or placement in MATH 151                                                            | 4      |
|  | BIOL 302 - Molecular & General Genetics                           | BIOL 140, BIOL 141, CHEM 101, CHEM 102/120 (co-req), and (MATH 150 or higher or placement in MATH 151) | 4      |
|  | BIOL 303 - Cell Biology                                           | BIOL 140, BIOL 141, BIOL 302, CHEM 102, and (MATH 150 or higher or placement in MATH 151)              | 4      |
|  | BIOL Elective (BIOL3XX or 4XX lecture or lab course - see Note 5) | See catalog                                                                                            | 2 -4   |

### Important Notes:

- 1) The BIOL minor may NOT be taken with a major in Biological Sciences (BIOL BA or BS), Biochemistry & Molecular Biology (BIOC), or Bioinformatics and Computational Biology (BINF) because of complete overlap in requirements.
- 2) At least two of the courses used for BIOL minor requirements must not be used in the fulfillment of the coursework of another major, minor or certificate.
- 3) Students must earn a "C" or better in all major courses AND course prerequisites.
- 4) At least half of the required BIOL courses and electives must be completed in residence: for the BIOL minor, at least three of five BIOL classes must be taken at UMBC.
- 5) BIOL 396, 397, 398, 399, 495, 497H, 499, 499L and 499H may NOT be used for the Elective requirement. The BIOL elective class must be taken at UMBC.
- 6) The Biological Sciences Department evaluates completion of major requirements based on COURSES completed, not CREDITS completed, because equivalent courses taken elsewhere may not be the same number of credits as the UMBC course they replace.
- 7) Under exceptional circumstances, the Department may waive or alter a BIOL degree requirement. Students seeking to petition for a waiver must consult with their academic adviser, then may submit a 'Petition for Waiver/Substitution of Program Requirements' form, found here: <https://biology.umbc.edu/undergrad/forms-links/>.