

Graduation Requirements for a Major or Minor in Biology

BA requirements – 10 total courses

- ___ BIOL 150
- ___ BIOL 201
- ___ BIOL 202
- ___ 1. BIOL 300-level class with **biological diversity designation** (i.e., BIOL 312, BIOL 313, BIOL 320, BIOL 326, or BIOL 327. Also counting in 2010-2011 are BIOL 356-02 Ornithology and BIOL 356-01 Marine Diversity & Biology).
- ___ 2. BIOL 300-level
- ___ 3. BIOL 300-level
- ___ 4. BIOL 300-level
- ___ 5. BIOL 300-level
- ___ CHEM 131 (or CHEM 121 prior to Fall 2011)
- ___ CHEM 132 (or CHEM 122 prior to Fall 2011)
- ___ *Successful completion of BIOL 300 and BIOL 301 – no grade given –S/U only*

Note: BIOL 452: Advanced Senior Research may replace one of the BIOL 300-level courses. BIOL 401: Advanced Biochemistry may replace one of the BIOL 300-level courses. BIOL 361/362: Directed Studies, BIOL 363/364: Independent Study, and BIOL 451: Senior Research do not count as courses toward graduation.

➔ **To graduate with a BA in Biology, the student must have a gpa of 2.0 for the 10 courses listed above.** If additional biology courses are taken, they also are included in the calculation of the gpa for the major (as per page 9, 2011-2012 Catalog).

BS requirements – 16 total courses

- ___ BIOL 150
- ___ BIOL 201
- ___ BIOL 202
- ___ 1. BIOL 300-level class with **biological diversity designation** (i.e., BIOL 312, BIOL 313, BIOL 320, BIOL 326, or BIOL 327. Also counting in 2010-2011 are BIOL 356-02 Ornithology and BIOL 356-01 Marine Diversity & Biology).
- ___ 2. BIOL 300-level
- ___ 3. BIOL 300-level
- ___ 4. BIOL 300-level
- ___ 5. BIOL 300-level
- ___ 6. BIOL 300-level
- ___ CHEM 131 (or CHEM 121 prior to Fall 2011)
- ___ CHEM 132 (or CHEM 122 prior to Fall 2011)
- ___ 1. additional course in math or science
- ___ 2. additional course in math or science
- ___ 3. additional course in math or science
- ___ 4. additional course in math or science
- ___ 5. additional course in math or science
- ___ *Successful completion of BIOL 300 and BIOL 301 – no grade given –S/U only*

Note: BIOL 452: Advanced Senior Research may replace one of the BIOL 300-level courses. BIOL 401: Advanced Biochemistry may replace one of the BIOL 300-level courses. BIOL 361/362: Directed Studies, BIOL 363/364: Independent Study, and BIOL 451: Senior Research do not count as courses toward graduation.

Note: **Students may take only 3 courses within a single department or program to fulfill the requirement for five additional courses in math or science.** Choices include courses in the Environmental Studies Program such as ENVS 102: Science and the Environment, ENVS 200: Environmental Geology, ENVS 212: Environmental Chemistry, ENVS 225: Environmental Psychology, ENVS 230: Introduction to Environmental Mapping, ENVS 274: Ecosystem Management, ENVS 310: Wetland Ecology, ENVS 351: Advanced Geographic Information Systems Analysis.

➔ **To graduate with a BS in Biology, the student must have a gpa of 2.0 for the 16 courses listed above.** If additional biology courses are taken, they also are included in the calculation of the gpa for the major. If additional courses in math or science are taken, they too are included in the calculation of the gpa for the major (as per page 9, 2011-2012 Catalog).

Biology Minor requirements – 7 total courses

___ BIOL 150

___ BIOL 201

___ BIOL 202

___ 1. BIOL 300-level class with **biological diversity designation** (i.e., BIOL 312, BIOL 313, BIOL 320, BIOL 326, or BIOL 327. Also counting in 2010-2011 are BIOL 356-02 Ornithology and BIOL 356-01 Marine Diversity & Biology. Ornithology also was offered in 2009-2010 and counts if taken then.)

___ 2. BIOL 300-level

___ 3. BIOL 300-level

___ CHEM 131 (or CHEM 121 prior to Fall 2011)

Note: BIOL 452: Advanced Senior Research may not replace one of the BIOL 300-level courses. BIOL 401: Advanced Biochemistry may replace one of the BIOL 300-level courses. BIOL 361/362: Directed Studies, BIOL 363/364: Independent Study, and BIOL 451: Senior Research do not count as courses toward graduation.

➔ **To graduate with a minor in Biology, the student must have a gpa of 2.0 for the 7 courses listed above.** If additional biology courses are taken, they also are included in the calculation of the gpa for the minor (as per page 9, 2011-2012 Catalog).

What does it mean to be a biological diversity course?

Courses fulfilling the biological diversity designation emphasize the holistic study of organisms (e.g., structure/function, place/role of organisms in the environment). They allow students to explore the variety of living forms through a broad survey of taxa and to evaluate the role of phylogenetic history for that taxonomic group. In these courses student may learn morphology and diagnostic traits through careful observation, learn to identify organisms to a meaningful taxonomic unit, and learn to key organisms using taxonomic tools (not applicable to all taxonomic groups). Students also gain an understanding of the principles of scientific nomenclature (e.g., binomials, synonymy, authorities).