

CHECKLIST FOR THE BIOLOGY MINOR

See Department of Biology undergraduate adviser (LS-102) before beginning coursework for the minor.

At least 16 units are required for the Biology minor, plus 9 more units of prerequisites in most cases.

General Biology (no emphasis): (Sims: 771401)

- Required prerequisites:

CHEM 200 General Chemistry (5) and:

BIOL 203 Principles of Cell & Molecular Biology (3) and BIOL 203L Principles Cell & Mol. Biol. Lab (1)

OR

BIOL 100 General Biology (3) and BIOL 100L General Biology Lab (1)

Note: BIOL 203/203L are prerequisites for most UD BIOL courses in the minor! If you choose BIOL 100/100L instead of 203/203L, you will severely limit the possible upper division courses you can take.

- Required lower division:

1. BIOL 204 of Organismal Biology (3) and BIOL 204L Principles of Organismal Biol. Lab (1)

- Required electives: a minimum of 12 upper division units. These units **cannot** be shared with your major.

1. Ecology and Evolution (at least 2 courses): Biology 315, 324, 327, 352, 354

2. Human Biology (at least 1 course): Biology 307* or 336

3. Laboratory (at least 1 course): Any Biology course numbered 350 or above with a “laboratory” label in the General Catalog and the online Class Schedule. If you take BIOL 100/100L instead of Biology 203/203L, then your only option is BIOL 436.

Cellular and Molecular Biology: (Sims: 771421)

1. Prerequisites: Chemistry 200, 201, 232, 232L, 365, Biology 203, 203L, 204, 204L

2. Electives: a minimum of 12 units from the following: Biology 350, 351, 352, 366, 366L, 480, 510, 528, 549, 554, 567, 568 [or BIOMI 568], 570, 575, 576*, 584, 589, 590, and Biology 485 or 585*, and Biology 556* or 557*

3. At least one elective must be a Laboratory Course: Biology 350, 366L, 556*, 557*

Ecology: (Sims: 771422)

1. Prerequisites: Chem 200, Biology 203, 203L, 204, 204L

2. Required: Biology 354

3. Electives: a minimum of 9 units from the following: Biology 315, 324, 327, 354L, 509, 512, 514, 515*, 516A, 517, 518, 523*, 524, 525*, 526, 527, 527L*, 528, 531*, 540, 542, 544

4. At least one elective must be a Laboratory Course: Biology 354L, 512, 514, 515*, 516A, 517, 518, 523*, 524, 525*, 526, 528, 531*, 535

Evolutionary Biology: (Sims: 771423)

1. Prerequisites: Chem 200, Biology 203, 203L, 204, 204L

2. Required: Biology 352

3. Electives: a minimum of 9 units from the following: Biology 509, 510, 512, 523*, 524, 525*, 526, 527, 527L, 530*, 531*

4. At least one elective must be a Laboratory Course: Biology 512, 523*, 524, 525*, 526, 530*, 531*

Marine Biology: (Sims: 771425)

1. Prerequisites: Chem 200, Biology 203, 203L, 204, 204L

2. Required: Biology 324

3. Electives (all electives are Laboratory Courses): a minimum of 9 units from the following: Biology 512, 514, 515*, 516A, 517, 518, 542

All underlined courses require Biology 203/203L as prerequisites. Biology 100/100L is not an adequate prerequisite substitute.

* May not be offered in 2020-2021. Check the current Class Schedules.

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Plant Biology: (Sims: 771426)

1. Prerequisites: Chem 200, Biology 203, 203L, 204, 204L
2. Required (at least one of these Laboratory Courses, 3-4 units): Biology 530* or 531* or 535
3. Electives: 8-9 units from the following (to total at least 12 UD units): Biology 458, 530*, 531*, 535

IMPORTANT NOTES

- **Biology 203/203L are prerequisites for all emphases in the minor, and you must take Chemistry 200 before or concurrently with Biology 203/203L.**
- The minor requires a minimum of 16-22 units. At least 12 upper division Biology units must come from courses numbered 300 or higher. A minimum of 6 upper-division units must be completed at SDSU.
- **At least one of the selected courses must be a biology laboratory course numbered 350 or above.** Also refer to your Degree Audit Report (DAR) for approved courses.
- All prerequisites for Biology courses apply to Biology minors. Biology minors who do not take BIOL 203/203L are very limited in the upper division coursework that they have access to.
- The Biology minor requires prerequisites that do not count towards the units in the minor.
- Courses in the minor may not be counted toward your major, but may be used to satisfy preparation for the major and general education requirements, if applicable.
- Courses not listed above may be substituted with approval of the Biology Adviser.
- For courses requiring Biology 215 as a prerequisite, a different college level course in statistics may be acceptable with prior approval of the instructor.
- A maximum of 3 units of Biol 497 and 499 may be included in the minor with prior approval of the Bio. Dept.
- All courses taken for the minor must be taken for a letter grade, unless the course(s) is only offered CR/NC.

Course List

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|-----------|----------------------------|------------|-----------------------------|-----------|----------------------------|
| Biol 215 | Biostatistics (3) | Biol 512 | E.E. Marine Mamm. (3) | Biol 544 | Terr. Eco. Climate Ch. (3) |
| *Biol 307 | Biology of Sex (3) | Biol 514 | Biology of the Algae (4) | Biol 549 | Microbial Gen. Phys. (3) |
| Biol 315 | Ecol. H. Impacts Env. (3) | *Biol 515 | Mar. Invertebrate Biol. (4) | Biol 554 | Molecular Virology (3) |
| Biol 324 | Life in the Sea (3) | Biol 516A | Marine Larval Ecol. I (4) | *Biol 556 | Scanning El. Micr. Lab (2) |
| Biol 327 | Conserv. Wildlife (3) | Biol 517 | Marine Ecology (4) | *Biol 557 | Transm. El. Micr. Lab (3) |
| Biol 336 | Princ. Human Physiol. (3) | Biol 518 | Biology of Fishes (4) | Biol 567 | Adv. Bioch. C. M. B. (4) |
| Biol 350 | General Microbiology (4) | *Biol 523 | Herpetology (3) | Biol 568 | Bioinformatics (3) |
| Biol 351 | Genetics (3) | Biol 524 | Ornithology (4) | Biol 570 | Neurobiology (3) |
| Biol 352 | Evolution (3) | *Biol 525 | Mammalogy (3) | Biol 575 | Mol. Basis Heart Dis. (3) |
| Biol 354 | Ecology & Environ. (3) | Biol 526 | Terr. Arthropod Biol. (4) | *Biol 576 | Developmental Biol. (3) |
| Biol 354L | Experimental Ecology (2) | Biol 527 | Animal Behavior (3) | Biol 584 | Medical Microbiology (3) |
| Biol 366 | Cell and Molecular Bio (3) | *Biol 527L | Animal Behavior Lab (1) | *Biol 585 | Cell. Mol. Immunol. (3) |
| Biol 366L | Bioch. C.M.B. Lab I (2) | Biol 528 | Microbial Ecology (3) | Biol 589 | Stem Cell & Reg. Biol. (3) |
| Biol 436 | Human Physiol. Lab (2) | *Biol 530 | Plant Systematics (4) | Biol 590 | Phys. Human Systems (4) |
| Biol 458 | Plant Biology (3) | *Biol 531 | Taxonomy CA Plants (4) | Chem 200 | General Chemistry I (5) |
| Biol 480 | Clinical Hematology (3) | Biol 535 | Plant Ecology (4) | Chem 201 | General Chemistry II (5) |
| Biol 485 | Princ. of Immunology (3) | Biol 540 | Conservation Ecology (3) | Chem 232 | Organic Chemistry (3) |
| Biol 509 | Advanced Evolution(3) | Biol 542 | Ecol Signaling in Envir (3) | Chem 232L | Organic Chemistry Lab (1) |
| Biol 510 | Molecular Evolution (3) | | | Chem 365 | Bioch. Cell Mol. B. I (3) |

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All underlined courses require Biology 203/203L as prerequisites. Biology 100/100L is not an adequate prerequisite substitute.

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