

CHECKLIST FOR THE BIOLOGY MINOR

2011-2012 Catalog

(Use this as a worksheet. Refer to the *SDSU General Catalog* for official requirements and prerequisites.)

See Department of Biology undergraduate advisers (LS-135) before beginning coursework for the minor.

At least 12 upper division units, including a laboratory course, are required for the Biology minor.

General Biology (no emphasis)

- Prerequisites:
 - 1a. Chem 200 General Chemistry (5) and Biol 203 Principles of Cell & Molecular Biology (3) and Biol 203L Pr. Cell & Mol. Biol. Lab (1)
OR
 - 1b. 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! Biol 100 and 100L will not fulfill the prerequisite requirements for those upper division courses.
- 2. Biol 204 Principles of Organismal Biology (3) and Biol 204L Princ. of Organismal Biol. Lab (1)
- Electives: a minimum of 4 courses and a minimum of 12 upper division units. At least one course must come from each of the following areas:
 1. Evolution & Genetics (3 units): Biology 319† or 352
 2. Ecology & the Environment (3 units): Biology 315, 324, 326, 327, or 354
 3. Human Biology (3 units): Biology 307 or 336
 4. Laboratory Course (2-4 units): Biology 354L, 436, 458†, 515, 516A†, 517, 523†, 524†, 525†, 526, 528, 530†, 531, 535, or 588†

Cellular and Molecular Biology

1. Prerequisites: Chemistry 200, 201, 232, 232L, 365, Biology 203, 203L, 204, 204L
2. Electives: a minimum of 12 units from the following: Biology 342, 350, 352, 366, 366L, 549, 554, 555†, 567, 570, 575†, 576, 584, 589, 590, 594, either Biology 485 or 585, either Biology 556 or 557
3. At least one elective must be a Laboratory Course: Biology 350, 366L, 556, 557

Ecology

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, 523†, 524, 525†, 526, 527, 527L, 528, 531, 540, 541†, 542, 544, 588†
4. At least one elective must be a Laboratory Course: Biology 354L, 512, 514, 515†, 516A, 517, 523†, 524, 525†, 526, 527L, 528, 531, 540†, 541†, 588†

Evolutionary Biology

1. Prerequisites: Chem 200, Biology 203, 203L, 204, 204L
2. Required: Biology 319† or 352
3. Electives: a minimum of 9 units from the following: Biology 508, 509, 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, 527L†, 530†, 531, 546

Marine Biology

1. Prerequisites: Chem 200, Biology 203, 203L, 204, 204L
2. Required: Biology 324
3. Electives: a minimum of 9 units from the following: Biology 512†, 514, 515, 516A†, 517, 541†
(All electives are Laboratory Courses.)

Underlined courses require Biology 203/203L as prerequisites, rather than Biology 100/100L

† not offered in AY 11-12

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Plant Biology

1. Prerequisites: Chem 200, Biology 203, 203L, 204, 204L
2. Required (3-4 units): Biology 458† or 460 or 530† or 531 or 535
3. Electives: 8-9 units from the following (to total at least 12 UD units): Biology 326, 458†, 460, 530†, 531, 535
(All electives are Laboratory Courses except Biol 326.)

IMPORTANT NOTES

- **Biology 203/203L are prerequisites for most emphases in the minor, and Chemistry 200 is a prerequisite for 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 UD units must be completed at SDSU.
- 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.
- 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.

Course List

<u>Biol 215</u>	Biostatistics (3)	<u>Biol 509</u>	Evolutionary Biology (3)	<u>Biol 549</u>	Microbial Gen. Physiol. (3)
<u>Biol 307</u>	Biology of Sex (3)	<u>†Biol 512</u>	Evol. Ecol. Mar. Mamm. (3)	<u>Biol 554</u>	Molecular Virology (3)
<u>Biol 315</u>	Ecol. & Human Impacts Env. (3)	<u>Biol 514</u>	Biology of the Algae (4)	<u>†Biol 555</u>	Principles Electron Micr. (2)
<u>†Biol 319</u>	Evolution (3)	<u>Biol 515</u>	Mar. Invertebrate Biology (4)	<u>Biol 556</u>	Scanning Elec. Micr. Lab (2)
<u>Biol 324</u>	Life in the Sea (3)	<u>†Biol 516A</u>	Marine Larval Ecology I (4)	<u>Biol 557</u>	Transm. Elec. Micr. Lab (3)
<u>Biol 326</u>	Plants, Medicines & Drugs (3)	<u>Biol 517</u>	Marine Ecology (4)	<u>Biol 567</u>	Adv. Bioch. Cell Mol. Bio (4)
<u>Biol 327</u>	Conservation of Wildlife (3)	<u>†Biol 523</u>	Herpetology (4)	<u>Biol 570</u>	Neurobiology (3)
<u>Biol 336</u>	Princ. of Human Physiol. (3)	<u>†Biol 524</u>	Ornithology (4)	<u>†Biol 575</u>	Mol. Basis Heart Disease (3)
<u>Biol 350</u>	General Microbiology (4)	<u>†Biol 525</u>	Mammalogy (4)	<u>Biol 576</u>	Developmental Biology (3)
<u>Biol 352</u>	Genetics & Evolution (3)	<u>Biol 526</u>	Terr. Arthropod Biol. (4)	<u>Biol 584</u>	Medical Microbiology (3)
<u>Biol 354</u>	Ecology & the Environm. (3)	<u>†Biol 527</u>	Animal Behavior (3)	<u>Biol 585</u>	Cell. Molec. Immunology (3)
<u>Biol 354L</u>	Experimental Ecology (2)	<u>†Biol 527L</u>	Animal Behavior Lab (1)	<u>†Biol 588</u>	General Parasitology (3)
<u>Biol 366</u>	Bioch. Cell Mol. Biol. II (4)	<u>Biol 528</u>	Microbial Ecology (3)	<u>Biol 590</u>	Physiol. Human Systems (4)
<u>Biol 366L</u>	Bioch. Cell Mol. Bio. Lab I (2)	<u>†Biol 530</u>	Plant Systematics (4)	<u>Biol 594</u>	Biotech. Research Rounds (2)
<u>Biol 436</u>	Human Physiology Lab (2)	<u>Biol 531</u>	Taxonomy CA Plants (4)	<u>Chem 200/201</u>	General Chemistry (5/5)
<u>†Biol 458</u>	Plant Biology (4)	<u>Biol 535</u>	Plant Ecology (4)	<u>Chem 232</u>	Organic Chemistry (3)
<u>Biol 460</u>	Economic Botany (3)	<u>†Biol 540</u>	Conservation Ecology (3)	<u>Chem 232L</u>	Organic Chemistry Lab (1)
<u>Biol 485</u>	Principles of Immunology (3)	<u>†Biol 541</u>	Ecol. Fishes Fisheries Bio (3)	<u>Chem 365</u>	Bioch. Cell Mol. Biol. I (3)
<u>Biol 508</u>	Coevolution (3)	<u>Biol 544</u>	Terr. Ecosys. Climate Ch. (3)		

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