

CHECKLIST FOR THE BIOLOGY MINOR

Department of Biology Undergraduate Adviser (LS-135): Dr. Andrew Bohonak
2008-2009 Catalog

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

- Courses in the minor may **not** be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable.
- A minimum of 6 UD units must be completed at SDSU.
- See a Biology Adviser before filing a “Declaration or Change of Undergraduate Major and Minor” form for the minor.

PREREQUISITES FOR THE MINOR (do not count towards units in the minor)

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

OR

Biol 201A Principles of Cell & Molecular Biology (4) – Note: this is a prerequisite for many UD Biol. courses

REQUIREMENTS FOR THE MINOR (a minimum of 16-22 units to include):

Biol 201B Principles of Organismal Biology (4)

and

A minimum of 12 upper division Biology units from courses numbered 300 or higher.

- At least one of the selected courses must be a biology course numbered 350 or above with a laboratory. Many of these require Biol 201A.
- The upper division units can come from any of the concentration areas described below. Other courses may be substituted for those in groupings below only with written approval of the Biology Adviser, and this approval must be filed with the Office of Advising and Evaluations.
- May include a maximum of 3 units of Biology 497 and 499 in the minor with prior approval of the department.
- For courses requiring Biology 215 as a prerequisite, a college level course in statistics may be acceptable with the approval of the instructor.
- All other prerequisites for Biology courses apply for Biology minors.

CONCENTRATION AREAS

You may choose one of the following concentration areas. **For other options, please see a Biology Adviser.**

At least 12 upper division units are required for each.

General Biology

(A minimum of 4 courses with at least one course from each of the following areas totaling at least 12 units)

Evolution & Genetics (3 units): Biology 319 (usually offered in summer) or 352 (Biol 201A prereq.)

Ecology & the Environment (3 units): Biology 315, 324, 326, 327, or 354

Human Biology (3 units): Biology 307, 321, or 336

Biology Lab (2-4 units): Biology 354L, 436, 515, 517, 523, 524, 525, 526, or 530

Cellular and Molecular Biology

Prerequisites: Biology 201A, Chemistry 200, 201, 231, 365

Electives (A minimum of 12 units from the following): Biology 350, 352, 366, 366L, 499, 549, 551, 554, 555, 563, 567, 570, 575, 576, 584, 590, 594, 595, either Biology 485 or 585, either Biology 556 or 557

Ecology

Required: Biology 354

Electives: Biology 315, 324, 327, 354L, 509, 512, 514, 515, 517, 523, 524, 525, 526, 540, 541

Evolutionary Biology

Required: Biology 319 or 352 or 509

Electives: Biology 319, 352, 508, 509, 512, 523, 524, 525, 526

Human Biology [see Biol Advisors before starting on this minor]

Required: Biology 261 or 336 or 590

Electives: Biology 307, 321, 326, 336, 352 (Biol 201A prereq.), 436, 590

Marine Biology

Required: Biology 514 or 515 or 520

Electives: Biology 324, 512, 514, 515, 517, 524, 541

Plant Biology

Required: Biology 460 or 531 or 535

Electives: Biology 326, 460, 530, 531, 535

Courses

Biol 215	Biostatistics (3)	Biol 524	Ornithology (4)
Biol 261	Human Physiology (4)	Biol 525	Mammalogy (4)
Biol 307	Biology of Sex (3)	Biol 526	Terrestrial Arthropod Biology (4)
Biol 315	Ecology & Human Impacts on the Environment (3)	Biol 530	Plant Systematics (4)
Biol 319	Evolution (3)	Biol 531	Taxonomy of California Plants (4)
Biol 324	Life in the Sea (3)	Biol 535	Plant Ecology (4)
Biol 326	Plants, Medicines & Drugs (3)	Biol 540	Conservation Ecology (3)
Biol 327	Conservation of Wildlife (3)	Biol 541	Ecology of Fishes and Fisheries Biology (3)
Biol 336	Principles of Human Physiology (3)	Biol 549	Microbial Genetics & Physiology (3)
Biol 350	General Microbiology (4)	Biol 551	Recombinant DNA (3)
Biol 352	Genetics & Evolution (3)	Biol 554	Molecular Virology (3)
Biol 354	Ecology & the Environment (3)	Biol 555	Principles of Electron Microscopy (1)
Biol 354L	Experimental Ecology (2)	Biol 556	Scanning Electron Microscopy Lab (2)
Biol 366	Biochemistry, Cell & Molecular Biology II (4)	Biol 557	Transmission Electron Microscopy Lab (3)
Biol 366L	Biochemistry, Cell & Molecular Biology Lab I (2)	Biol 567	Adv. Biochem., Cell & Molecular Biology (4)
Biol 436	Human Physiology Lab (2)	Biol 567L	Biochem., Cell & Molecular Biol. Lab II (2)
Biol 460	Economic Botany (3)	Biol 570	Neurobiology (3)
Biol 485	Principles of Immunology (3)	Biol 575	Molecular Basis of Heart Disease (3)
Biol 497	Undergraduate Research (1-3)	Biol 576	Developmental Biology (3)
Biol 499	Special Study (1-3)	Biol 584	Medical Microbiology (3)
Biol 508	Coevolution (3)	Biol 585	Cellular & Molecular Immunology (3)
Biol 509	Evolutionary Biology (3)	Biol 590	Physiology of Human Systems (4)
Biol 512	Evolution & Ecology of Marine Mammals (3)	Biol 594	Biotechnology Research Rounds (2)
Biol 514	Biology of the Algae (4)	Biol 595	Computers in Biomedical Research (3)
Biol 515	Marine Invertebrate Biology (4)	Chem 200/201	General Chemistry (5/5)
Biol 517	Marine Ecology (4)	Chem 231	Organic Chemistry (4)
Biol 523	Herpetology (4)	Chem 365	Biochem., Cell & Molecular Biology I (3)