

UNDERGRADUATE STUDIES: GENERAL BIOLOGY CHECKLIST

Preparation for the Major Coursework

See Department of Biology undergraduate advisers (LS-135)

Four Year Degree

To finish your degree in four years, all 9 sets of premajor courses listed below will need to be finished by the end of your 4th semester, or the 5th at the latest.

Impaction

Biology is impacted. After admission to SDSU, students are initially placed into the Biology premajor. Premajors must meet department specific criteria in order to be admitted into the major. Admission to Biology Major requires the following:

- Completion of all the preparation for the Major courses *and* a combined GPA of 2.8 or higher in these courses (*excluding Phys 180A, 180B, 182A, and 182B*).
- A minimum of C or better in every course (Recommended A's and B's).
- Courses in the Preparation for the Major cannot be taken Cr/Nc.

After completing these requirements, you will be admitted to the Major automatically. *If* you are not admitted automatically meet with the Undergraduate Biology Advisor as soon as possible.

Students who do not meet one or more requirements should meet with the Undergraduate Biology Advisor each semester to determine an appropriate course of action

NOTE: Not all upper division Biology courses are offered every semester. Check the current class schedule for complete course listings.

PREPARATION FOR THE MAJOR (37 units of lower division courses)

Biol 203	Princ. of Cell Molec. Biology	3		Chem 232	Organic Chemistry	3	
Biol 203L	Princ. of Cell Molec. Biology Lab	1		Chem 232L	Organic Chemistry Lab	1	
Biol 204	Princ. of Organismal Biology	3		Math 124	Calculus of Life Sciences	4	
Biol 204L	Princ. of Organismal Biology Lab	1		Phys 180A	Fundamentals of Physics	3	
Biol 215	Biostatistics	3		Phys 182A	Physical Measurements	1	
Chem 200	General Chemistry	5		Phys 180B	Fundamentals of Physics	3	
Chem 201	General Chemistry	5		Phys 182B	Physical Measurements	1	

UPPER DIVISION MAJOR

(36 units for B.S., 24 units for B.A.)

2.0 GPA required in all upper division coursework applied to the major.

Core Coursework

(15 units)

Biol 352 - Genetics and Evolution	3	
Biol 354 - Ecology and the Environment	3	
Biol 365 - Biochemistry, Cell, and Molecular Biology I	3	
Biol 366 - Biochemistry, Cell, and Molecular Biology II	4	
Boil 366L - Biochemistry, Cell, and Molecular Biology Lab	2	

Elective Coursework

(21+units for B.S., 9+ units for B.A.)

Required: 2 Lab Courses (One class *cannot* fulfill both lab course requirements.)

1. <u>Organismal Lab Requirement</u> – select at least one Organismal lab in bold from below.		
2. <u>Lab Elective Requirement</u> – select at least one additional lab course from below (may or may not be organismal)		

<p>Biol 350 General Microbiology (4)</p> <p>Biol 354L Genetics and Evolution (2)</p> <p>Biol 436 Ecology and the Environment (2)</p> <p>Biol 458 Plant Biology (4)</p> <p>Biol 480L Clinical Hematology Laboratory (1)</p> <p>Biol 512 Evolutionary & Ecology of Marine Mammals (3)</p> <p>Biol 514 Biology of Algae (4)</p> <p>Biol 515 Marine Invertebrate Biology (4)</p> <p>Biol 516A Marine Larval Ecology Research Pt.1 (4)</p> <p>Biol 516B Marine Larval Ecology Research Pt.2 (4)</p> <p>Biol 517 Marine Ecology (4)</p> <p>Biol 518 Biology of Fishes (4)</p> <p>Biol 523 Herpetology (4)</p> <p>Biol 524 Ornithology (4)</p> <p>Biol 525 Mammalogy (4)</p>	<p>Biol 526 Terrestrial Arthropod Biology (4)</p> <p>Biol 527L Animal Behavior Lab (1)</p> <p>Biol 528 Microbial Ecology (3)</p> <p>Biol 530 Plant Systematics (4)</p> <p>Biol 531 Taxonomy of California Plants (4)</p> <p>Biol 535 Plant Ecology (4)</p> <p>Biol 540 Conservation Ecology (3)</p> <p>Biol 544L Global Change Science Lab (3)</p> <p>Biol 556 Scanning Electron Microscopy Lab (2)</p> <p>Biol 557 Transmission Electron Microscopy Lab (3)</p> <p>Biol 562 Ecological Metagenomics (3)</p> <p>Biol 567L Biochemistry, Cellular and Molecular Biology Lab II (2)</p> <p>Biol 568 Bioinformatics (3)</p> <p>Biol 597A Univariate Statistical Methods in Biology (3)</p>
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Custom Electives

- Customize your major by taking courses that you're interested in that are upper division Biology courses numbered 350-599 and upper division Chemistry courses (except Chem 300, 308, 497, 499, 560).
- Prior approval of the Biology Undergraduate Advisor (LSN-135) is needed and paperwork must be filed in order to enroll in Biol 497 and/or 499
- A maximum of 6 units between Biol 497 and 499 may be applied to the major.
- For B.A. in Biology, Biol 497 and 499 cannot be applied to elective units.
