CHECK LIST FOR THE BIOLOGY MAJOR

See Department of Biology undergraduate advisers (LS-135)

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biol 203</td>
<td>Princ. of Cell &amp; Molec. Biol.</td>
<td>3</td>
<td>Chem 232</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Biol 203L</td>
<td>Princ. of Cell &amp; Molec. Biol. Lab</td>
<td>1</td>
<td>Chem 232L</td>
<td>Organic Chemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>Biol 204</td>
<td>Princ. of Organismal Biology</td>
<td>3</td>
<td>Math 124</td>
<td>Calculus for the Life Sciences</td>
<td>4</td>
</tr>
<tr>
<td>Biol 204L</td>
<td>Princ. of Organismal Biology Lab</td>
<td>1</td>
<td>Phys 180A</td>
<td>Fundamentals of Physics</td>
<td>3</td>
</tr>
<tr>
<td>Biol 215</td>
<td>Biostatistics</td>
<td>3</td>
<td>Phys 182A</td>
<td>Physical Measurements</td>
<td>1</td>
</tr>
<tr>
<td>Chem 200</td>
<td>General Chemistry</td>
<td>5</td>
<td>Phys 180B</td>
<td>Fundamentals of Physics</td>
<td>3</td>
</tr>
<tr>
<td>Chem 201</td>
<td>General Chemistry</td>
<td>5</td>
<td>Phys 182B</td>
<td>Physical Measurements</td>
<td>1</td>
</tr>
</tbody>
</table>

FINISHING YOUR DEGREE IN FOUR YEARS

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

IMPATION

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 to the major. Admission to the Biology major requires:

- completion of all Preparation for the Major courses
- an overall GPA of at least 2.6 (for all courses taken)
- combined GPA of 2.7 or higher in Preparation courses
- a minimum grade of C in each Preparation course
- satisfaction of the lower-division writing competency requirement
- no coursework for the premajor or the major may be graded Cr/NC

After completing these requirements, meet with the Biology advisor to be admitted to the major. Students who do not meet one or more requirements should meet with the Biology advisor each semester to determine an appropriate course of action.

PREREQUISITES

- all prerequisites for all courses are necessary, and many are computer-enforced
- speak to the course instructor if you believe that a prerequisite should be waived for some unusual reason
- you cannot take Chem 200 without 1) passing a placement exam, or 2) passing Chem 100 with a C or better
- you cannot take Biology 366 before being admitted to the major
- meet with a Bioadviser if your prerequisite courses from another institution are not properly recognized in your Degree Audit Report

MAJOR (Minimum of 36 upper division units for the B.S.; 24 for the B.A.)

All Biology courses numbered 350-599 may be applied to the major, and certain Chemistry courses between 410A-599. At least two electives must be laboratory courses from the Biology department (not including Biology 497, 499), at least one of which must be an organismal course (listed below). We recommend that Biology 497 or 499 be included as an elective if possible (maximum of 6 units). An overall 2.0 GPA is required for courses in the major.

Core Courses Required for all Biol Majors

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biol 352</td>
<td>Genetics and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>Biol 354</td>
<td>Ecology and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>Chem 365</td>
<td>Biochem., Cell &amp; Mol. Biol. I</td>
<td>3</td>
</tr>
<tr>
<td>Biol 366</td>
<td>Biochem., Cell &amp; Mol. Biol. II</td>
<td>4</td>
</tr>
<tr>
<td>Biol 366L</td>
<td>BCMB. Lab. I</td>
<td>2</td>
</tr>
</tbody>
</table>

Elective Courses (21+ units for BS, 9+ units for the BA)

Organismal course (see below): [Organismal course name]

Laboratory elective: [Laboratory elective name]

Other electives: [Other electives]

Organismal biology courses (at least one of these courses must be taken):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biol 350</td>
<td>Gen. Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>†Biol 458</td>
<td>Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>†Biol 460</td>
<td>Economic Botany</td>
<td>3</td>
</tr>
<tr>
<td>Biol 514</td>
<td>Biology of the Algae</td>
<td>4</td>
</tr>
</tbody>
</table>

†Biol 516A Mar. Larval Ecol. I (4)  Biol 528  Microbial Ecology (3)
†Biol 523  Herpetology (4)  †Biol 530  Plant Systematics (4)
Biol 524  Ornithology (4)  Biol 531  Taxon. Calif. Plants (4)
Biol 525  Mammalogy (4)  †Biol 535  Plant Ecology (4)

† Not taught in 2015-2016.
‡ No transfer courses will substitute for courses in the major without prior departmental approval.
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Dr. Andrew J. Bohonak, Professor and Vice Chair of Biology,
Director of Undergraduate Advising and Curriculum
Mr. Eddie Lopez, M.S., Associate Director of Advising
Ms. Arlene Castillo, M.S., Administrative Coordinator

For the most current information and answers to 25 Frequently Asked Questions
See the bioadvising web page http://www.sci.sdsu.edu/bioadvise/

Degree opportunities
The Department of Biology offers the following degrees:

- B.S. in Biology, with optional emphases in Cellular & Molecular Biology, Ecology, Evolution & Systematics, Marine Biology, or Zoology
- B.A. in Biology
- B.S. in Microbiology, with an optional emphasis in Clinical Laboratory Science/ Public Health Microbiology
- B.A. in Microbiology
- Minor in Biology, with optional emphases in five areas
- Biotechnology Certificate
- Demonstrate subject matter competency for the Single Subject Teaching Credential in Biology/Life Sciences

Changing majors or minors
Biology and Microbiology are impacted majors. If you wish to change majors, add a second major, or add a minor, see our department policies at http://www.sci.sdsu.edu/bioadvise/

Additional information
Prospective students: http://arweb.sdsu.edu/es/admissions/
Chemistry 200 placement exam: http://www.chemistry.sdsu.edu/courses/CHEM200/200_Placement_exam.php
"TAP" database of courses that will automatically transfer: https://sunspot.sdsu.edu/pubred/tap.disp
Articulation of science courses that are not in the TAP database: meet with Biology advisors
Resources for traditionally underrepresented groups: CASA http://www.sci.sdsu.edu/casa/
Career Services (register by your sophomore year): http://career.sdsu.edu/student_affairs/career/
Preprofessional Health Advising Office (GMCS-323): http://www.sci.sdsu.edu/preprof/
Official explanation of graduation requirements: http://arweb.sdsu.edu/es/advising/9gradreqs.html