Bachelor of Science in Biology: Option V: Cell and Molecular Biology
2010-12 Catalog (Expires August 2016)

### University Core Curriculum

<table>
<thead>
<tr>
<th>First-Year Signature Course: UGS 302 or 303</th>
</tr>
</thead>
<tbody>
<tr>
<td>English: RHE 306</td>
</tr>
<tr>
<td>American &amp; Texas Government: 6 hrs from approved core list</td>
</tr>
<tr>
<td>Social and Behavioral Science: 3 hrs from approved core list</td>
</tr>
<tr>
<td>Mathematics: 3 hrs from approved core list: [M 408N or M 408C]</td>
</tr>
<tr>
<td>Science and Technology Part I: 6 hrs in a single subject from approved core list: [CH 301 or 301H and 302 or 302H]</td>
</tr>
<tr>
<td>Science and Technology Part II: 3 hrs from a subject other than the one chosen for Part I from approved core list: [BIO 311C]</td>
</tr>
<tr>
<td>Visual &amp; Performing Arts: 3 hrs from approved core list</td>
</tr>
</tbody>
</table>

Note that no single course may be used to fulfill two core areas simultaneously. In most cases, students may satisfy both a core requirement and a major requirement with a single course. Plan II students may have additional options for some core requirements.

### Additional General Education Requirements

**Substantial Writing Components and/or Writing Flags** (including a course that is not used to meet a core requirement and a course that is upper-division):

**Substantial Writing Components and Writing Flags may satisfy other specific degree requirements.**

**Foreign Language, Option A, B, or C:**

A) Two semesters in a single language or attainment of second-semester proficiency in one language:
B) First semester-level proficiency in a foreign language and a three-hour course in the culture of the same language:
C) Two three-hour culture courses chosen from one foreign culture category from and approved list available in the CNS Dean’s office and the college advising centers.

### Mathematics and Science, with Grades of C- or Better

<table>
<thead>
<tr>
<th>Mathematics: M 408N</th>
<th>408S</th>
<th>OR</th>
<th>M 408C</th>
<th>408D</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry:</td>
<td>CH 301 or 301H</td>
<td>+</td>
<td>302 or 302H</td>
<td>+</td>
</tr>
<tr>
<td>Organic Chemistry:</td>
<td>CH 310M</td>
<td>+</td>
<td>310N</td>
<td>+</td>
</tr>
<tr>
<td>Upper-division Chemistry:</td>
<td>CH 339K</td>
<td>+</td>
<td>339L</td>
<td>OR</td>
</tr>
<tr>
<td>Physics:</td>
<td>PHY 303K (or 301, 317K)</td>
<td>+</td>
<td>PHY 103M (or 101L, 117M)</td>
<td></td>
</tr>
<tr>
<td>Physics:</td>
<td>PHY 303L (or 316, 317L)</td>
<td>+</td>
<td>PHY 103N (or 116L, 117N)</td>
<td></td>
</tr>
</tbody>
</table>

### Biology with Grades of C- or Better

| Introductory Biology: BIO 311C | + | 311D | + | 325 | OR | 315H | + | 325H |

Biology required for Cell and Molecular Biology Option (Asterisked Courses may also count toward the Biology Required for Cell and Molecular Biology lists)

**Cellular, Developmental, and Molecular Biology, 3 hours:** BIO 320*, 326R*, 344, or 349: ______

**Physiology and Neurobiology, 3 hours:** BIO 328*, 361T, 365R*, or 365S*: ______

**Ecology and Evolution, 3 hours:** BIO 357, 359K, 370*, or 373: ______

**Biology required for Cell and Molecular Biology Option (Asterisked Courses may also count toward the Biology Breadth lists)**

BIO 320* + 344 + 126L + 326R* + 349 + 370*.

**One of the following courses, chosen from:** BIO 320L, 331L, or 349L: ______

**One of the following courses, chosen from:** BIO 328*, 365R*, or 365S*: ______
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** Note:  BIO 318M is lower-division, and will not count toward 24 hours of upper-division Biology.

Include 4 Laboratory Courses in Coursework Chosen from Above Lists:

4 Laboratory Courses, including 3 Upper-division Biology Laboratory Courses (in Bold in lists above):  _____ + _____ + _____ + _____
(May include 1 Lower-division Biology Laboratory Course from:  BIO 205L, 206L, and 208L).

Minimum 24 hours of upper-division Biology beyond BIO 325, from lists (includes biology breadth courses and upper-division laboratory courses):  _____

Other than the laboratory requirement, courses that appear on more than one Biology Required for Cell and Molecular Biology Option lists may count toward only one list.

Enough Additional Elective Hours to Reach a Total of 126 Hours including 36 Upper-division Hours

Minimum Grade Point Average Requirements

2.0 grade point average in all mathematics and science courses required by degree *:  _____

2.0 grade point average in all courses taken at the University of Texas at Austin:  _____

* Required mathematics and science courses may include:  ACF, AST, BIO, CH, CS, EVS, GEO, HDF, HE, M, NSC, NTR, PHY, SSC, TXA, and UTS-Natural Sciences.

Total Hours and Residency Requirements

126 semester hours:  _____
36 upper-division hours:  _____
24 upper-division Biology hours beyond BIO 325 from approved lists:  _____
60 hours in residence:  _____
24 of the last 30 hours in residence:  _____
18 upper-division Biology hours in residence:  _____

No more than 16 hours of electives may be taken Pass/Fail. Students may earn only one BA or one BS in Biology degree, though they may complete the requirements for additional majors. Students completing an additional degree must complete 24 hours in addition to those counted toward the bachelor's degree that requires the higher number of credit hours.

CNS Academic Records Sept 2010