**Biology - B.A.**

To address the breadth and depth essential to educating biologists, the biology major is structured to include both a broad foundation through core courses and opportunity for specialization within a biological subfield through biology electives. The major is designed to prepare the student for a post-baccalaureate profession in biology, for advanced professional training in the health sciences, or for graduate study in basic and applied areas of the biological sciences.

**128 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. A complete description of College requirements for a Bachelor of Arts degree can be found on pages 98-100 of the 2006-2007 UK Bulletin.

**University Studies Program Requirements**

I. Math (completed by Premajor Requirement)
   - 4
II. Foreign Language (placement exam recommended) .............. 0-8
III. Inference–Logic (completed by Premajor Requirement)
   - 3-4
IV. Written Communication .................................................. 0-4
V. Oral Communication ......................................................... 0
VI. Natural Sciences (completed by Premajor Requirements)
   - 9
VII. Social Sciences ................................................................. 6
VIII. Humanities ........................................................................ 6
IX. Cross-Cultural (choose a Humanities course) .................... 3
X. Electives (choose 2 Social Science courses) ......................... 6

**USP hours:** ................................................................. 24-36

**Graduation Writing Requirement**

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 70 of the 2006-2007 UK Bulletin.

**Graduation Writing Requirement Hours:** .................................................. 3

**College Requirements**

I. Foreign Language (placement exam recommended) .............. 0-8
   - 0-8
II. Disciplinary Requirements
   a. Natural Science (completed by Premajor Requirements)
   b. Social Science (completed by USP Elective Requirement)
   c. Humanities (partially completed by USP Cross-Cultural Requirement) .................................................. 3
III. Laboratory or Field Work (completed by Premajor Requirement)
IV. Electives .................................................................................. 6

**College Required Hours:** .......................................................... 9-17

**Premajor Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 123 Elementary Calculus and its Applications</td>
<td>3-4</td>
</tr>
<tr>
<td>or MA 113 Calculus I</td>
<td></td>
</tr>
<tr>
<td>*CHE 105 General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>*CHE 107 General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>*CHE 115 General Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>*BIO 150 Principles of Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 151 Principles of Biology Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>BIO 152 Principles of Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 153 Principles of Biology Laboratory II</td>
<td>2</td>
</tr>
</tbody>
</table>

**Major Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 304 Principles of Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO 315 Introduction to Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 325 Introductory Ecology</td>
<td>4</td>
</tr>
<tr>
<td>*BIO 350 Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 425 Biology Seminar or BIO 499 Biology Research Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

*Students with a strong interest in plants may substitute BIO 430G for BIO 350 with the approval of faculty advisor.

**Other Course Work Required for the Major**

From the Major Department:

To be chosen from 200+ level BIO courses (excluding BIO 208) or the list below. Two courses must contain a laboratory component. Six hours of Independent Research (395) from biological sciences departments may be counted here; however, only BIO 395 is accepted for honors in biology. Note that ANA 209, BIO 208 and PGY 206 cannot be used for this requirement.  

- A&S 300, 500 (when offered by the Department of Biology)
- ABT 301, 395, 460, 461, 495
- ANA 395, 511, 512
- ANT 332
- ASC 364, 378, 395
- BCH 395, 401G, 503, 517
- BIO – all 200+ level courses except BIO 208
- ENT 300, 310, 320, 395, 402, 460, 461, 561, 562, 564, 568
- FOR 315, 340, 375, 402, 410
- FSC 530
- GLY 401G
- MI 494G, 595, 598
- NRC 320, 395, 420G, 450G, 455G
- PGY 412G, 502, 560, 590
- PPA 395, 400G, 503
- PSY 312, 456, 459, 552, 558, 565
- STA 281, 291, 292, 503, 570, 580 (Generally only one statistics course is accepted. Other STA courses may be accepted at the discretion of your advisor, and may depend upon the area of biology in which you choose to specialize.)
- TOX 508, 509, 560
- VS 395

**From Outside the Major Department**

Choose either CHE 230/231/232
   or CHE 226/231 and BCH 401G .............................................. 8
Choose either PHY 211/213
   or PHY 231/232/241/242 ....................................................... 10

**Other Major hours:** ................................................................. 34

**Total Minimum Hours Required for Degree** ........................................... 128

*Course used towards completion of a USP or College Requirement.