**University Core Requirements (2009)**

**Foundations**
- Critical Thinking and Writing 1 ___
- Critical Thinking and Writing 2 ___
  (will be automatically enrolled in same section after completion of CT&W1)
- Cultures and Ideas 1 ___
- Cultures and Ideas 2 ___
  (automatically enrolled in same section after completion of C&I1)
- Religion, Theology, and Culture 1 ___
- Second Language ___
  (complete 2nd introductory level of Language [including Latin and Ancient Greek], or equivalent by proficiency exam)
- Mathematics ___ *(MATH 35/11)*

**Explorations**
- Ethics ___
- Civic Engagement ___
- Diversity ___
- Arts ___
- Natural Science w/ Lab ___ *(CHEM 11)*
- Social Science ___
- Religion, Theology, and Culture 2 ___
- Religion, Theology, and Culture 3 ___
  (after 88 units)
- Science, Technology, and Society ___
- Cultures & Ideas 3 ___

**Integrations**
- Experiential Learning for Social Justice ___ *
- Advanced Writing ___ *

**Pathway Title:**
- Pathway Course 1 ___
- Pathway Course 2 ___
- Pathway Course 3 ___
- Pathway Course 4 ___

**BIOLOGY Major Requirements**

**Lower Division:** Introductory Classes
- BIOL 1A ___
- BIOL 1B ___
- BIOL 1C ___
- CHEM 11 ___
- CHEM 12 ___
- CHEM 31 ___
- CHEM 32 ___
- CHEM 33** ___
- PHYS 11/31 ___
- PHYS 12/32 ___
- PHYS 13/33 ___
- MATH 35 (or 11) ___
- MATH 36 (or 12) ___

**Upper Division:**
- BIOL 101 ___
- UD BIOL with lab ___
- UD BIOL with lab ___
- UD BIOL with lab ___
- UD BIOL with lab ___
- UD BIOL with lab ___
- UD BIOL elective*** ___
- UD BIOL elective*** ___

**Pathway Title:**
- Pathway Course 1 ___
- Pathway Course 2 ___
- Pathway Course 3 ___
- Pathway Course 4 ___

**Pathway Title:**
- Pathway Course 1 ___
- Pathway Course 2 ___
- Pathway Course 3 ___
- Pathway Course 4 ___

**Pathway Title:**
- Pathway Course 1 ___
- Pathway Course 2 ___
- Pathway Course 3 ___
- Pathway Course 4 ___

*Can overlap with other Core or a Major requirement.

---

**Students are advised to take at least one upper-division course each from one of five biological “concepts” categories identified by Vision and Change in Undergraduate Biology Education: Evolution, Information Flow, Structure-Function, Systems, and Transformations of Energy and Matter. Students are also advised to take at least one upper-division course that focuses on the use of modeling and simulation to solve biological problems. Approved upper division Biology courses, along with the categories they satisfy, are listed on the back page of this document.**
<table>
<thead>
<tr>
<th></th>
<th>Senior</th>
<th>Junior</th>
<th>Sophomore</th>
<th>First Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FALL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WINTER</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPRING</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUMMER (optional)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>