## REQUIRED COURSES

**ENGLISH :** 6 hours  
- Rhetoric 306  
- E 316K

**SUBSTANTIAL WRITING COMPONENT :** Note: writing courses may be used simultaneously to satisfy other area major requirements: The BS Biochemistry degree contains two substantial writing component courses:  
- CH 369L  
- CH 370

**FOREIGN LANGUAGE/CULTURE:** one of the following options:  
- 2nd semester proficiency in a foreign language  
- 1st semester foreign language and a foreign culture course of the same language area.

**U.S. GOVERNMENT & U.S. HISTORY –** 6 hours each.  
- GOV 310L  
- GOV 312L  
- U.S. HIS*  
- U.S. HIS*  
(*courses designated in course schedule as "fulfills legislative requirement")

**SOCIAL SCIENCES :**  
- Anthropology, Economics, Geography, Linguistics, Psychology, or Sociology

**FINE ARTS/CULTURE :**  
- Architecture, Classical Civilization, Art, Music, *Philosophy, Theatre and Dance

**Math–**  
- M408C  
- M408D  
- M408K  
- M408L  
- M408M  
* An upper-division course in **Math** chosen from:  
- M340L  
- M341

**Physics –**  
- PHY317K (or 301, or 303K)  
- PHY117M(or 101L, or 103M)  
- PHY117N(or 116L, or 103N)

**Computation -** 12 hrs. of coursework in the Elements of Computing, consisting of:  
- CS 303E  
- CS 313E  
- Remaining six hours chosen from:  
- CS 323E  
- CS 324E  
- CS 326E  
- CS 327E  
- CS 329E

**Chemistry:**  
- General  
- CH301 or CH 301H  
- CH302 or CH 302H  
- CH204 or CH 317

- Organic  
- CH318M(310M)  
- CH118K  
- CH318N(310N)  
- CH118L(210C)

- Biochem  
- CH339K  
- CH339L  
- CH369L  
- CH370

- Physical  
- CH353M  
- CH153K

- Analytical  
- CH455

- Computation  
- CH368**

* 3 additional hours of upper-division **CHEMISTRY LABORATORY** coursework chosen from the list below.

**Chemistry 341** Special Topics in Laboratory Chemistry  
**Chemistry 369K** Techniques of Research (count one time only)  
**Chemistry 431** Inorganic Chemistry  
**Chemistry 376K** Advanced Analytical Chemistry  
**Chemistry 369T** Biotechnology Laboratory  
**Chemistry 371K** Science Outreach in Elem Schools (count one time only)  

3 hrs:  

**CH 431 is usually offered in the fall semester only.**  
**CH 368 (Computational Chemistry) & CH 376K are usually offered in the spring semester only**

*A minimum grade of 'C' is required for each Chemistry course.*

**Biological Sciences -** 18 hours, including:  
- BIO 311C  
- BIO 311D  
- BIO 325  

9 additional hours of upper division Biology courses  
- (Physiology)  
- (Physiology)  

*Chosen from approved list of courses (see back of this page), including at least one physiology course*
### APPROVED CLASSES FOR UPPER DIVISION BIOLOGICAL SCIENCES REQUIREMENT BEYOND GENETICS (BIO 325)

#### Physiology:
- Biology 328: Introductory Plant Physiology
- Biology 339: Metab & Biochem of Microorganisms
- Biology 345: Cell Physiology
- Biology 361T: Comparative Animal Physiology
- Biology 365T (or) Biology 371M: Neuronal Basis of Brain and Behavior
- Biology 365S: Vertebrate Physiology II

#### Other:
- Biology 320: Cell Biology
- Biology 326R: General Micro: Cell Structure/Genetics
- Biology 126L: General Microbiology Lab
- Biology 330: Animal Virology
- Biology 331L: Laboratory Studies in Molecular Biology
- Biology 344: Molecular Biology
- Biology 347: Biology/Genetics of Immune Disorders
- Biology 349: Developmental Biology
- Biology 360K: Immunology

#### Sample 4 Year Degree Plan

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<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>RHE 306</td>
<td>CH 302 or CH 302H</td>
<td>(M 408M)</td>
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<td>CH 301 or CH 301H</td>
<td>CH 204 or 317</td>
<td>Foreign Lang (3-5 HRS)</td>
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<tr>
<td>M 408C or M 408K</td>
<td>M 408D or M 408L</td>
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<td>CS 303E</td>
<td>CS 313E</td>
<td>BIO 311C</td>
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<tr>
<td>CH 318M &amp; 118K (or 310M)</td>
<td>CH 318N &amp; 118L (or 310N &amp; 210C)</td>
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<td>BIO 311D</td>
<td>M 340L</td>
<td>GOV 312L</td>
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<td>CH 339L</td>
<td>HIS 315K ³</td>
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<td>CH 353M</td>
<td>CH 153K</td>
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<td>CH 370-W</td>
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<td>CH 368 (Computational Chemistry)</td>
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*This requirement can be satisfied with any HIS course that fulfills the legislative requirement. ² Three additional hours of upper division chemistry laboratory coursework chosen from Ch 341, 431, 376K, 369K, 369T, or 371K.

Please consult with your advisor re: number of elective hours needed.

CNS 9/2008