## Bachelor of Science in Applied Mathematics (Numerical Methods Option)

### A Suggested Sequence of Required Courses (2011-2012 Catalog)

#### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Chapel (CHA 1088)</td>
<td>0 Chapel (CHA 1088)</td>
</tr>
<tr>
<td>3 ENG 1302 or FAS 1302</td>
<td>3 REL 1310</td>
</tr>
<tr>
<td>4 Lab Science (see below)</td>
<td>4 Lab Science (see below)</td>
</tr>
<tr>
<td>3-4 Foreign Lang. 1401/1412 (see below/reverse)</td>
<td>3-4 Foreign Lang. 1402/2310 (see below/reverse)</td>
</tr>
<tr>
<td>3 MTH 1321 (if eligible)</td>
<td>3 MTH 1322</td>
</tr>
<tr>
<td><strong>Total: 13-14</strong></td>
<td><strong>Total: 13-14</strong></td>
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</tbody>
</table>

#### Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>3 ENG 2301 or ENG 2304/2306/GTX</td>
<td>3 ENG 2301 or ENG 2304/2306/GTX</td>
</tr>
<tr>
<td>3 REL 1350</td>
<td>3 Foreign Language 2320 (see below/reverse)</td>
</tr>
<tr>
<td>3 Foreign Language 2310 (see below/reverse)</td>
<td>4 CSI 1440</td>
</tr>
<tr>
<td>4 CSI 1430</td>
<td>3 MTH 2311</td>
</tr>
<tr>
<td>3 MTH 2321</td>
<td>3 MTH Advanced Elective (3325 recommended)</td>
</tr>
<tr>
<td><strong>Total: 16</strong></td>
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</tbody>
</table>

#### Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>3 ENG 3300 (see below)</td>
<td>3 History/Social Science (see reverse)</td>
</tr>
<tr>
<td>3 History/Social Science (see reverse)</td>
<td>1 Human Performance</td>
</tr>
<tr>
<td>3 PSC 2302</td>
<td>3 Advanced Elective*</td>
</tr>
<tr>
<td>1 Human Performance</td>
<td>3 Elective*</td>
</tr>
<tr>
<td>3 MTH 3312</td>
<td>3 MTH 4322 or 4328</td>
</tr>
<tr>
<td>3 MTH 3324</td>
<td>3 MTH 3323</td>
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<tr>
<td><strong>Total: 16</strong></td>
<td><strong>Total: 16</strong></td>
</tr>
</tbody>
</table>

#### Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 STA 3381</td>
<td>3 MTH 4328 or 4322</td>
</tr>
<tr>
<td>3 MTH Advanced Elective (4000-level)</td>
<td>3 MTH Advanced Elective (3000-4000-level)</td>
</tr>
<tr>
<td>1 Human Performance</td>
<td>1 Human Performance</td>
</tr>
<tr>
<td>3 Advanced Elective*</td>
<td>3 Advanced Elective*</td>
</tr>
<tr>
<td>3 Elective*</td>
<td>3 Elective*</td>
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<tr>
<td>3 Elective*</td>
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<tr>
<td><strong>Total: 16</strong></td>
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</tr>
</tbody>
</table>

All students must graduate with a minimum of 124 hours, 36 of which must be at the 3000/4000 level.

### Notes about major requirements:

- Foreign language must be fulfilled with a modern language - see reverse, Option A only. German, French, or Russian are recommended for those who plan to attend graduate school because many graduate schools require proficiency in one of these languages.
- Lab science (8 hours): One course and lab from: BIO 1305-1105, BIO 1306-1106, CHE 1301-1101, CHE 1302-1102, GEO 1406. One course and lab from: GEO 1401, GEO 1402, GEO 1403, GEO 1405, GEO 1408, NSC 1306-1106, PHY 1420, PHY 1430.
- English requirement: It is recommended that science majors take ENG 3300 their junior year rather than ENG 1304. Students may also take FAS 1118, 1128, and 1138 instead of ENG 1304.
- A grade of "C" or better must be earned in all 39 hours of math.
- Check your degree audit often through Bearweb to ensure that you are making timely progress toward your degree.
- For more information, see the undergraduate catalog.

*Because of the number of electives, there is enough room for a minor with this major.

Please see reverse side for important information on general requirements.
Notes about General Requirements:
• Course selection is subject to availability within each semester.
• Please keep in mind that this is only a suggested sequence. Actual sequence will vary according to possible second major, minor, other program of study (including pre-health), and individual circumstances (ex., transfer credit, dual credit, and credit by exam).
• In order to complete your degree, you must fulfill all requirements in your major and general requirements for the Bachelor of Science.
• To complete a double major, you may not count any courses toward both majors.
• For more specific information on general requirements, see your undergraduate catalog.
• Check your degree audit often through Bearweb to ensure that you are making timely progress toward your degree.

History/Social Science (choose 2 courses from the following areas - 6 hours):
- Anthropology, Economics, History, Honors, Philosophy, Political Science, Psychology, Sociology, GEOG 1300, FAS 1303, 1304 or 1305, or 3 courses from FAS 1115, 1125, 1135.
- Check your major to determine if special courses are needed.

Foreign Language:
- Option A: One modern language through 2320 level:
  Arabic, Chinese, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, and Swahili
- Option B: One classical language through 2320 level or two classical through 1302 level:
  Latin, Greek, Hebrew (If available, Akkadian, Aramaic, Syriac, and/or Ugaritic may be used)
  *Chemistry majors must take a modern foreign language; German or Russian are strongly recommended.

Math & Science: You must complete a minimum of 34 hours of math and science courses. See the undergraduate catalog for a more detailed explanation.

Fine Arts: None required for this degree.