### NRE Undergraduate Curriculum (Catalog: 2011 - 2012)

<table>
<thead>
<tr>
<th>Freshman Fall</th>
<th>Freshman Spring</th>
<th>Sophomore Fall</th>
<th>Sophomore Spring</th>
<th>Junior Fall</th>
<th>Junior Spring</th>
<th>Senior Fall</th>
<th>Senior Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1310 General Chemistry</td>
<td>MATH 1501 Calculus 1</td>
<td>PHYS 2211 Physics 1</td>
<td>MATH 1502 Calculus 2</td>
<td>PHYS 2212 Physics 2</td>
<td>MATH 2401 Calculus 3</td>
<td>MATH 2403 Thermodynamics</td>
<td>ME 3322 Fluid Mechanics</td>
</tr>
<tr>
<td>(See Note 5)</td>
<td>(Minimum Grade C)</td>
<td>(See Note 7, No W's)</td>
<td>(Minimum Grade C)</td>
<td>(Minimum Grade C)</td>
<td>(See Note 8)</td>
<td>(See Note 8)</td>
<td>(See Note 8)</td>
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<tr>
<td>3-3-4</td>
<td>4-0-4</td>
<td>3-3-4</td>
<td>4-0-4</td>
<td>3-0-3</td>
<td>3-0-3</td>
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<td>* = 16 hours</td>
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</tbody>
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**NOTES:**

1. Ethics - PHIL 3105, 3109, 3127 & 4176 are humanities (HUM). HTS 2084 & INTA 2030 are social sciences (SS).
2. Between Global Perspective and Social Science or Humanities Elective 1, one must be a social science elective and one must be a humanities elective.
3. Between Ethics and Social Science or Humanities Elective 2, one must be a social science elective and one must be a humanities elective.
4. Technical Electives are any 3000 level courses or above from the Colleges of Engineering, Science or Computing that do not duplicate any other class used for the BSNRE degree. See back for more information.
5. CHEM 1211K can substitute for CHEM 1310. CHEM 1211K & 1212K are recommended for pre-health students.
6. Students can receive credit for only ONE of ECON 2100, ECON 2105 or ECON 2106. The only exception is that students can receive 6 hours credit for both ECON 2105 and ECON 2106.
7. NRE 3112, 4206 & 4232 cannot be dropped after registration ends without documented medical reasons.
8. NRE students do not take ME 2202, so NRE 3301 or NRE 2110 will satisfy the pre-req for registration.
9. Global Perspective: This requirement is effective fall 2011 & later. See back for website with eligible classes.

**General Requirements**

A. All classes must be taken LETTER GRADE.
B. Minimum grade of D required for each class, except as noted.
C. Overall GPA must be greater than 2.00 at graduation.
D. NRE GPA (including all NRE classes) must be greater than 2.00 at graduation.

**Total Hours:**

- 126 Total Hours

[Catalog: 2011 - 2012]
Undergraduate Curriculum Sheet Explained

Understanding the Curriculum Guide

Core Classes

Humanities Electives (12 hours total)
- ENGL 1101 (3 hrs) - Must be completed before earning 45 credits.
- ENGL 1102 (3 hrs) - Must be completed before earning 45 credits.

Social Science Electives (12 hours total)
- Economics (3 hrs) - ECON 2100, 2101, 2105 or 2106
- US Perspective (3 hrs) - HIST 2111, HIST 2112, POL 1101, INTA 1200 or PUBP 3000

Technical Electives
- ME 3340 Fluid Mechanics (See Note 8) 3-0-3
- COE 2001, MATH 2403, ME 3322 *, MATH 2401, ...

Pre-requisites: These classes must be completed before this class.

*Co-requisites: These classes can be taken at the same time or before this class. You must register for the co-req first to avoid registration errors.

Technical Electives

1. Technical Electives may be selected from any course offered in the College of Engineering, Science or Computing at the 3000 level or above, excluding Psychology (PSYC) and Applied Physiology (APPH).
2. Technical electives cannot overlap any other course which you intend to use for your BSNRE.
3. Students with a 3.2 GPA or above may use graduate level NRE classes as Technical Electives.
4. Research: Students may use 4 hours maximum of 4699 or 4903 for technical elective credit. Research does not have to be NRE specific research; it can be from the colleges of engineering, science or computing.

Class Offerings

<table>
<thead>
<tr>
<th>Class</th>
<th>Frequency of Offering</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRE 2110</td>
<td>Spring</td>
</tr>
<tr>
<td>NRE 3112</td>
<td>Fall</td>
</tr>
<tr>
<td>NRE 3208</td>
<td>Spring</td>
</tr>
<tr>
<td>NRE 3301</td>
<td>Spring</td>
</tr>
<tr>
<td>NRE 3316</td>
<td>Spring</td>
</tr>
<tr>
<td>NRE 4206</td>
<td>Spring</td>
</tr>
<tr>
<td>NRE 4208</td>
<td>Fall</td>
</tr>
<tr>
<td>NRE 4214</td>
<td>Fall</td>
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<tr>
<td>NRE 4232</td>
<td>Spring</td>
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<tr>
<td>NRE 4328</td>
<td>Fall</td>
</tr>
<tr>
<td>COE 2001</td>
<td>Every Semester *</td>
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<tr>
<td>COE 3001</td>
<td>Every Semester *</td>
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<tr>
<td>ECE 3025</td>
<td>Every Semester *</td>
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<tr>
<td>ISYE/MATH 3770</td>
<td>Every Semester *</td>
</tr>
<tr>
<td>ME 3322</td>
<td>Every Semester *</td>
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<tr>
<td>ME 3340</td>
<td>Every Semester *</td>
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<tr>
<td>ME 3345</td>
<td>Every Semester *</td>
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</tbody>
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* Summer classes may be cancelled due to low enrollments.