This sample sequence is designed to help you plan your schedule. You may not end up following it exactly.

<table>
<thead>
<tr>
<th>Fall – First Year</th>
<th>Spring – First Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1101 – Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1161 – Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 1170/1170L – Engineering Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1211/1211L – Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Core Course (see check sheet)</td>
<td>3</td>
</tr>
<tr>
<td>First Year Seminar (FYS)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall – Second Year</th>
<th>Spring – Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 2001 – Statics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2083 – Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2212K – Physics II</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 2000 – Materials***</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 2010 – Computational Modeling***</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

**Pre-Requisite Graph**

**Mechanical Engineering - REPP**
# Engineering Studies Program

## Mechanical Engineering Majors, REPP, Accelerated 2 Year Program, Transfer Check Sheet

### Area A - Essential Skills

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1101 (or H) Composition I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 1102 (or H) Composition II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 1161 (or H) Calculus I</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

*(Excess 1 hour from MATH 1161 goes to Area B)*

### Area C - Humanities and Fine Arts

<table>
<thead>
<tr>
<th>Area C</th>
<th>Hrs</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Ethics and Values</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHIL 2030 Ethical &amp; Moral Philosophy</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>II. Art, Music, or Theater (Choose ONE):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTS 1100 Art Appreciation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ARTS 2720 Art History II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUSC 1100 Music Appreciation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>THEA 1100 Theater Appreciation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>THEA 1200 Intro to Theater</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 2100 (or H) Literature and Humanities</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### Area D - Science, Math and Technology

<table>
<thead>
<tr>
<th>Area D</th>
<th>Hrs</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. The following lab science sequence:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 2211K Princ. Physics I</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHYS 2212K Princ. Physics II</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>II. Mathematics:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 2072 Calculus II</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

### Area E - Social Sciences

<table>
<thead>
<tr>
<th>Area E</th>
<th>Hrs</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. American and Georgia History and Constitution (Choose ONE):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 1100 (or H) US &amp; GA Pol. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>POLS 1100 US &amp; GA Pol. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>II. World Civilization (Choose ONE):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 1111 (or H) Civilization I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 1112 (or H) Civilization II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>III. Social Sciences (Choose ONE):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 2105 Macroeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON 2106 Microeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>IV. History and Social Sciences (Choose ONE):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 1102 Intro to Anthropology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON 1101 Intro to Economics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 1111 Civilization I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 1112 Civilization II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 2111 History of Amer. to 1877</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 2112 History of Amer. Since 1865</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>POLS 1200 Eth. The. and Mor. Iss. Govt</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>POLS 2100 Intro to Political Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSYC 1101 Intro to Psychology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SOCI 1101 Introductory Sociology</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### Additional Courses Required by Major

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI/ENGR 1371 Computing for Engineers</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 2083 Calculus III</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 2160 Linear Algebra</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 3411 Differential Equations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHEM 1211/1211L Princ. of Chemistry</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

### One Lab Science from *** (see note below):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1107/1107L Principles of Biology</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHEM 1212/1212L Princ. of Chemistry</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

### Mechanical Engineering Major Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 1170/1170L Engineering Graphics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGR 2000 Materials</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGR 2001 Statics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGR 2010 Computational Modeling</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGR 2110 Creative Decisions and Design</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGR 2202 Dynamics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGR 3322 Thermodynamics</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

** If you need extra courses, consider completing the core requirements to receive an Associate of Science, Engineering track.

*** Students transferring to Georgia Southern MUST take CHEM 1212/1212L and do NOT need MATH 2160, ENGR2000 or ENGR2010; ENGR2110 may be taken but is not required.

### Other Requirement

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>*FYSx First Year Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

(*Required of all incoming Freshman Students as of Fall 2013)

### Physical Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEBC 2000 Concepts of Fitness</td>
<td>2</td>
</tr>
</tbody>
</table>

* Items in **BOLD ITALICS** are courses (other than math, science, and engineering courses) preferred by Georgia Tech.