## GENERAL EDUCATION REQUIREMENTS (39 hours)

**English Composition (6 hours)**
- ENGL 1113  English Composition I
- ENGL 1213  English Composition II+

**U.S. History/U.S. Government (6 hours)**
- HIST 1483  U.S. History to 1877 or
- HIST 1493  U.S. History Since 1877
- POLS 1113  American Federal Government

**Sciences (9 hours)**
- Students must earn a "C" or better in these courses to be eligible for graduation.
  - *CHEM 1135  General College Chemistry I+
  - See Engineering Science Electives on next page.

**Humanities (6 hours)**—See courses listed in the RSC Academic Catalog.

**Mathematics (9 hours)**
- Students must earn a "C" or better in these courses to be eligible for graduation.
  - *MATH 2113  Calculus & Analytic Geometry I+
  - MATH 2123  Calculus & Analytic Geometry II+
  - MATH 2143  Calculus & Analytic Geometry III+

**Liberal Arts (3 hours)**—See courses listed in the RSC Academic Catalog.

## PROGRAM REQUIREMENTS (8 hours)

**Students must earn a "C" or better in these courses to be eligible for graduation.**
- MATH 2153  Calculus & Analytic Geometry IV+
- PHYS 2401  General Physics Laboratory I+
- PHYS 2434  Physics I for Engineering Science Majors+

## OPTION REQUIREMENTS (12 hours)

**Students must earn a "C" or better in these courses to be eligible for graduation.**
- See Engineering Electives on next page.

## SUPPORT & RELATED ELECTIVES (3 hours)

**Students must earn a "C" or better in these courses to be eligible for graduation.**
- See Support & Related Electives on next page.

*Check course description for prerequisites that must be met.
*Students may meet prerequisite requirements for CHEM 1135 and MATH 2113 through high school coursework, entrance exams, or placement exams, or by completing the prerequisite courses.
**Engineering Associate in Science Degree**
**General Option (62 Credit Hours Minimum)**

### Engineering Science Electives
- CHEM 1145  General College Chemistry II+
- GEOG 1114  Physical Geography+
- PHYS 2444  Physics II for Engineering Science Majors+
- Any course with BIOL, GEOL, ENSC, or METR prefix

### Engineering Electives
- ENGR 1213  Introduction to Engineering Practices+
- ENGR 2013  Engineering Graphics & Design+
- ENGR 2103  Statics+**
- ENGR 2113  Dynamics+
- ENGR 2123  Statics & Dynamics+**
- ENGR 2133  Strength of Materials+
- ENGR 2203  Digital Signals & Filtering+
- ENGR 2213  Electrical Science+
- ENGR 2233  Fluid Mechanics+
- ENGR 2303  Materials, Design, & Manufacturing Processes+
- ENGR 2313  Engineering Thermodynamics+

**ENGR 2103 and ENGR 2123 cannot be counted concurrently toward graduation requirements.**

### Support & Related Electives
- MATH 2173  Introduction to Ordinary Differential Equations+
- MATH 2853  Introduction to Statistics For Science & Engineering+
- Any CIT or computer-related course with approval of the Engineering & Science Division Dean

### Suggested Order of Enrollment
Students must enroll in a combination of General Education and Program Requirements to complete the degree. Consult with the Engineering & Science Division advisor each semester to verify that selected courses will fulfill degree requirements. Check the course catalog and/or class schedule for course offering specifics. The “+” symbol represents a prerequisite for the course. Any course offering is subject to change without notice.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CHEM 1135 General College Chemistry I+</td>
<td>ENGR 1213 English Composition II+</td>
</tr>
<tr>
<td>ENGL 1113 English Composition I</td>
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