### Liberal Studies Requirements (45-46 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 102</td>
<td>Critical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 104 or ENGL 220</td>
<td>Critical Reading or Intro to Literary and Cultural Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMM 200</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

### The Arts (3 credits)

Goal

3 credits

### Global Community (9 credits)

- Goal – Non-US
- Goal – Non-US
- Goal – US

3 credits

### Human Institutions/Interpersonal Relationships (3 credits)

Goal

3 credits

### Science, Technology & Math (9-10 credits)

**Recommended**

- CHEM 111 General Chemistry I
- MATH 225 Calculus I

1-2 credits

### Challenges of the Modern Age (3 credits)

Goal

Course is Waived

3 credits

### Other Basic Requirements

- Check with your advisor or your current degree audit report to see if you have been exempted from this course. The credit earned in this course will not be counted toward the 120 credit hour minimum required to earn a degree.
- ACSD 110 Beginning Algebra

3 credits

### Math Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 140**</td>
<td>Engineering Graphics I</td>
</tr>
<tr>
<td>PHYS 141**</td>
<td>Engineering Graphics II</td>
</tr>
<tr>
<td>PHYS 211**</td>
<td>General Physics I / Lab</td>
</tr>
<tr>
<td>PHYS 212**</td>
<td>General Physics II / Lab</td>
</tr>
<tr>
<td>PHYS 213**</td>
<td>General Physics III / Lab</td>
</tr>
<tr>
<td>PHYS 314*</td>
<td>Engineering Mechanics I: Statics</td>
</tr>
<tr>
<td>PHYS 331* or MATH 314*</td>
<td>Mathematical Methods of Physics</td>
</tr>
</tbody>
</table>

### Physics and Related Electives (9 credits)

**Elective courses need to be selected based upon area of Engineering chosen. Please contact your advisor for specific courses.**

- PHYS 315* | Engineering Mechanics II: Dynamics |
- PHYS 371* | Physical Optics |
- PHYS 375* | Thermodynamics |
- PHYS 381* | Advanced Physics Lab |
- PHYS 382* | Optics Laboratory |
- PHYS 385* | Computational Physics |
- PHYS 410* | Electricity and Magnetism |
- PHYS 480* | Quantum |
- CHEM 201* | Organic Chemistry I |
- CHEM 202* | Organic Chemistry II |
- CHEM 211* | Organic Chemistry I Lab |
- CHEM 212* | Organic Chemistry II Lab |
- CHEM 301* | Physical Chemistry I |
- EGE 101* | Physical Geology |
- EGE 202* | Earth History |
- EGE 111* | Physical Geology Lab |
- EGE 212* | Earth History Lab |
- EGE 201* | Earth Materials and Processes / Lab |
- EGE 327* | Structural Geology Lab |
- EGE 380* | Introduction to Hydrology / Lab |
- CPSC 236* | Select Computer Language |
- CPSC 246* | Advanced Programming Principles |
- CPSC 370* | Computer Organization and Architecture |
- MATH 315* | Numerical Mathematics |
- STAT 352* | Mathematical Statistics |

### Pre Engineering Related Courses (29 credits)

- CHEM 107* | General Chemistry I |
- CHEM 108* | General Chemistry II |
- CHEM 111* | General Chemistry I Lab |
- CHEM 112* | General Chemistry II Lab |
- CPSC 140* | Intro to Programming |
- MATH 225* | Calculus I |
- MATH 230* | Calculus II |
- MATH 231* | Calculus III |
- MATH 240* | Linear Algebra and Differential Equations |
- MATH 301* | Differential Equations |

### Natural Science and Math College-Wide Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 107</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I Lab</td>
</tr>
<tr>
<td>MATH 125 or MATH 225</td>
<td>Pre Calculus</td>
</tr>
<tr>
<td>PHYS 201 or PHYS 211</td>
<td>Elementary Physics I / Lab or General Physics I / Lab</td>
</tr>
</tbody>
</table>

### Major Course Requirements

- **Required Course Requirements**
  - Complete Goal requirements as indicated below (36-37 credits)
  - **Basic Requirements (9 credits)**
  - **The Arts (3 credits)**
  - **Global Community (9 credits)**
  - **Human Institutions/Interpersonal Relationships (3 credits)**
  - **Science, Technology & Math (9-10 credits)**
  - **Challenges of the Modern Age (3 credits)**
- **Enrichment Course Requirements**
  - Choose one course from three of the following Enrichment areas.
  - **Global Community or Human Institutions/Interpersonal Relationships**
  - **Global Community or Human Institutions/Interpersonal Relationships**
  - **Science, Technology & Math**
  - **Science, Technology & Math**
  - **MATH 230**
- **Other Basic Requirements**
  - Check with your advisor or your current degree audit report to see if you have been exempted from this course. The credit earned in this course will not be counted toward the 120 credit hour minimum required to earn a degree.
- **ACSD 110 Beginning Algebra**

### Computer Competency

- Students must demonstrate computer competency by:
  - Passed Exam
  - Passed Computer Competency Exam at SRU Orientation
  - OR
  - CPSC _____
  - Complete one of the following courses: CPSC 100, 110, 130, or PE 202 at SRU or another post-secondary institution

### IMPORTANT CURRICULUM GUIDE NOTES

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may not be already earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisors to ensure accurate progress towards degree completion. The information on this guide is current as of the date below. Students are responsible for curriculum requirements at the time of enrollment at the University.

*Course may have a prerequisite. See Undergraduate Online Catalog.

◊ Course can be counted as a liberal Studies Requirement, but earns credit only once toward your 120-credits total.

*Course counts for 50% of Major requirements and Major GPA

### GPA Requirement

- 2.00 or higher Major GPA
- 2.00 or higher Overall GPA