### Major Courses
9 Courses; Minimum 30 credits required; 22 credits must be from SU

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY53-154</td>
<td>Fundamentals of Physics I</td>
<td></td>
<td></td>
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<tr>
<td>PHY53-164</td>
<td>Fundamentals of Physics II</td>
<td></td>
<td></td>
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<tr>
<td>PHY53-214</td>
<td>Modern Physics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY53-324</td>
<td>Electromagnetism I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY53-334</td>
<td>Classical Mechanics I</td>
<td></td>
<td></td>
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<tr>
<td>PHY53-672</td>
<td>Capstone Course</td>
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</tr>
</tbody>
</table>

Select one from the following:

- PHY53-424 Quantum Physics
- CHE51-724 Physical Chemistry

Select two courses from the following:

- PHY53-404 Electronics
- PHY53-413 Classical Mechanics II
- PHY53-433 Electromagnetism II
- PHY53-434 Statics
- PHY53-443 Thermodynamics
- PHY53-454 Math Methods in Physical Science

### University Electives and/or Minors (Optional)

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY53-424</td>
<td>Quantum Physics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE51-724</td>
<td>Physical Chemistry</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Required Supporting Courses:

- MAT52-154 Calculus I
- MAT52-254 Calculus II
- MAT52-354 Calculus III
- MAT52-754 Differential Equations I

### GENERAL EDUCATION REQUIREMENTS

At least 30 total credits required, minimum 3 credits required per course

#### General Education Part I

- **First Year/Adv. Entry Seminar:**
  - UST05-014 or UST05-214

- **Foreign Language (3 sem.)**

- **Social Justice Course (may double count with any requirement):**

- **2 different FRAs:**

#### Exploration & Breadth - GE Part II

- **Six total courses**
  - PHY major and elective courses cannot be used to satisfy E&B requirements.
  - Additionally, any CHE course used to fulfill a major requirement cannot be used to satisfy E&B requirements.

- **Select one course from each of the following four areas:**
  - **Humanities:**
    - MAT52-154 Calculus I
    - MAT52-254 Calculus II
    - MAT52-354 Calculus III
    - MAT52-754 Differential Equations I
  - **Natural Sciences:**
    - SC 0
  - **Social Sciences:**
    - MAT52-154 Calculus I
    - MAT52-254 Calculus II
    - MAT52-354 Calculus III
    - MAT52-754 Differential Equations I
  - **Fine Arts:**

- **Select two additional courses from the four areas listed above.**
  - Courses must be from different areas and from different subjects from above courses.

#### Total Earned Credits: 0
#### Total Southwestern Credits: 0
#### Total Major Credits: 0
#### Total Gen Ed Credits: 0

A "C" average on all work attempted is required for graduation. No grade below "C-" may be counted toward the major or minor. At least 127 credits are required to earn a degree at Southwestern; of these, 64 credits must be completed in residence, including the last 32 credits. No more than 56 credit hours may be counted in one subject area. A major requires at least 30 credits, more than 50% upper-level, and a minor (optional) requires at least 18 credits (at least 12 upper-level). 60% of the major credits and 12 minor credits must be completed in residence at SU. With the exception of FRAs and the FY/AES seminar, all gen.ed. requirements require a minimum of 3 credits, including Fine Arts Performance. For a complete list of graduation requirements, see catalog.

### Graduation Requirements:

- Minimum of 127 credits:
- Cumulative GPA > 2.0
- GPA > 2.0 for Major, Minor and/or Areas of Concentration
- Less than C- grade in major/minor/core?
- At least 64 credits completed at Southwestern*
- No more than 56 credits of any 5 digit prefix**
- Major credits completed (min 30 required)
- 60% of Major courses completed at Southwestern (22cr)
- 50% of Major courses are upper level (18cr)

### Notes:

- *Sufficient advanced mathematics for a mathematics minor is highly recommended
- **Public Speaking, College Writing and Creative Writing courses may not count in Exploration & Breadth
Minor (optional):
Minimum 18 credits
Minimum 12 upper level credits
Minimum of 12 credits taken at Southwestern
Minimum 2.0 minor courses CGPA

Other:
Degree Audit Completed (Due one year before grad date)
Grad Application Submitted (Due start of final semester)