This program map is intended ONLY as a guide for students to plan their course of study. It does NOT replace any information in the Undergraduate Catalog, which is the official guide for completing degree requirements.
## Year 1

### Term 1

- **A1:** ENGL 1101  
  English Composition I  
  Credit Hours: 3

- **A2:** MATH 1113  
  Precalculus  
  Credit Hours: 4

- **XIDS 2002**  
  First-Year Seminar Course  
  Credit Hours: 2

- **B2:** XIDS 2001  
  The Physical Universe  
  Credit Hours: 1

- **D1:** CHEM 1211/1211L  
  Principles of Chemistry I  
  Credit Hours: 4

**Milestones:**
- Complete ENGL 1101 C or better
- Complete MATH 1113

### Term 2

- **A1:** ENGL 1102  
  English Composition II  
  Credit Hours: 3

- **D1:** CHEM 1212/1212L  
  Principles of Chemistry II  
  Credit Hours: 4

- **D2:** MATH 1634  
  Calculus I  
  Credit Hours: 4

- **B, C, or E**  
  Institutional Option, Humanities/Fine Arts, or Social Science  
  Credit Hours: 3

**Milestones:**
- Complete ENGL 1102 C or better
- Complete Calculus I

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**14 Fall Credit Hours + 14 Spring Credit Hours = 28 Credit Hours**

## Year 2

### Term 1

- **F:** PHYS 2211/2211L  
  Principles of Physics I  
  Credit Hours: 4

- **F:** MATH 2644  
  Calculus II  
  Credit Hours: 4

- **B, C, or E**  
  Institutional Option, Humanities/Fine Arts, or Social Science  
  Credit Hours: 3

- **B, C, or E**  
  Institutional Option, Humanities/Fine Arts, or Social Science  
  Credit Hours: 3

### Term 2

- **F:** PHYS 2212/2212L  
  Principles of Physics II  
  Credit Hours: 4

- **F:** MATH 2654  
  Calculus III  
  Credit Hours: 4

- **MATH 3303**  
  Ordinary Differential Equations  
  Credit Hours: 3

- **B, C, or E**  
  Institutional Option, Humanities/Fine Arts, or Social Science  
  Credit Hours: 3

**Milestones:**
- Complete Introductory Physics Sequence
- Complete Math up to Calculus III

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**14 Fall Credit Hours + 14 Spring Credit Hours = 28 Credit Hours**
### YEAR 3

#### TERM 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 3503: Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 3113: Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 4513 OR 4523: Math. Physics or Computational Physics</td>
<td>3</td>
</tr>
<tr>
<td><strong>B, C, OR E</strong> Institution Option, Humanities/Fine Arts, or Social Science</td>
<td>3</td>
</tr>
<tr>
<td>MATH OR FL ELECTIVE</td>
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#### TERM 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 3213: Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 3313: Electricity and Magnetism</td>
<td>3</td>
</tr>
<tr>
<td><strong>B, C, OR E</strong> Institution Option, Humanities/Fine Arts, or Social Science</td>
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</tr>
<tr>
<td>PHYS ELECTIVE</td>
<td>3</td>
</tr>
<tr>
<td>MATH OR FL ELECTIVE</td>
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</tbody>
</table>

**15 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS = 30 CREDIT HOURS**

### YEAR 4

#### TERM 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PHYS 4513 OR 4523: Math. Physics or Computational Physics</td>
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</tr>
<tr>
<td>PHYS 3511: Experimental Physics I</td>
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</tr>
<tr>
<td><strong>B, C, OR E</strong> Institution Option, Humanities/Fine Arts, or Social Science</td>
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</tr>
<tr>
<td>ELECTIVE</td>
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</tr>
<tr>
<td>PHYS ELECTIVE</td>
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</tr>
<tr>
<td>PHYS ELECTIVE</td>
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</tr>
</tbody>
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#### TERM 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 3521: Experimental Physics II</td>
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</tr>
<tr>
<td>PHYS 4984: Physics Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ELECTIVE: 10 hours of Electives</td>
<td>10</td>
</tr>
<tr>
<td>PHYS ELECTIVE</td>
<td>3</td>
</tr>
<tr>
<td>PHYS ELECTIVE</td>
<td>3</td>
</tr>
</tbody>
</table>

**16 FALL CREDIT HOURS + 18 SPRING CREDIT HOURS = 34 CREDIT HOURS**

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**Key**
- **Color**: Core Area and Credit Hours
- **Color**: Elective Courses
- **Color**: Physics Elective Course
- **Color**: Math or Foreign Language Elective Course
Core Curriculum

A1 Communication Skills
A2 Quantitative Skills
B1 Written and Oral Communications
B2 Other Institutional Options
C1 Fine Arts
C2 Humanities
D1 Natural Science
D2 Mathematics, Science, and Quantitative Technology
E1 World History
E2 American/Georgia History
E3 American/Georgia Government
E4 Social Science
F Major Courses
**READY**

**FIRST YEAR**
- Enroll in XIDS 2001: Physical Universe and Core courses.
- Complete math courses through Calculus I.
- Take Principles of Physics I (or ASTR 2313) in your second semester.
- Attend physics workshops.
- Meet with your Physics mentor.

**SET**

**MIDDLE YEARS**
- Become a Student Assistant for a physics labs, workshops or the Observatory.
- Become a Physics Ambassador.
- Enroll in XIDS 2001: Physical Universe and Core courses.
- Complete math courses through Calculus I.
- Take Principles of Physics I (or ASTR 2313) in your second semester.
- Attend physics workshops.
- Meet with your Physics mentor.

**GO**

**LAST YEAR**
- Complete Principles of Physics.
- Take Modern, Mathematical, Mechanics, E&M and Thermal.
- Establish your pathway/concentration.
- Take core and electives to balance upper-level coursework.
- Finish your degree requirements.
- Complete your research/internships.
- Present at a conference.
- Write a scientific paper.
- Finish strong.