Undergraduate Major Map

Catalog Year: 2015
College / School: Arts and Sciences
Major: Physics - BS
Track / Concentration: Two Year Transfer

Fall Term 2015
May use two General Electives to satisfy the Elective Outside the Major requirement (if needed)

<table>
<thead>
<tr>
<th>Course Group</th>
<th>Course Required</th>
<th>Course Description</th>
<th>Credit Hours</th>
<th>Critical Indicator</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanics</td>
<td>PHY 4221</td>
<td>Intern Class Mech I</td>
<td>4</td>
<td>C</td>
<td>Changed from 3 hrs to 4 hrs</td>
</tr>
<tr>
<td>Modern Physics</td>
<td>PHY 3106</td>
<td>Modern Physics I</td>
<td>3</td>
<td>B</td>
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<tr>
<td>Thermodynamics</td>
<td>PHY 3513</td>
<td>Thermodynamics</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
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</tr>
<tr>
<td>Approved Physics</td>
<td>PHY 3802L</td>
<td>Intermed Phys Lab</td>
<td>3</td>
<td></td>
<td>Intermediate Physics Lab</td>
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</table>

Spring Term 2016
May use 3000-4000 Elective to satisfy the Elective Outside the Major requirement (if needed)
May use one 3000-4000 Level Elective to satisfy the Global Learning requirement. See endnotes

<table>
<thead>
<tr>
<th>Course Group</th>
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<th>Credit Hours</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Numerical Methods</td>
<td>PHZ 3113</td>
<td>Meth Theoric Physics</td>
<td>3</td>
<td>C</td>
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</tr>
<tr>
<td>3000-4000 Level</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>3000-4000 Level</td>
<td></td>
<td>3</td>
<td></td>
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<tr>
<td>General Electives</td>
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</tr>
<tr>
<td>Approved Physics</td>
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<tr>
<td>Electives</td>
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</tbody>
</table>

Summer Term 2016
Use this Semester to catch up on coursework if necessary.
# Undergraduate Major Map

## Fall Term 2016

Apply for Spring Graduation
May use one 3000-4000 Level Elective to satisfy the Global Learning requirement. See endnotes

<table>
<thead>
<tr>
<th>Course Group</th>
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<th>Critical Indicator</th>
<th>Course Notes</th>
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</thead>
<tbody>
<tr>
<td>Electromagnetism</td>
<td>PHY 4323</td>
<td>Interm Electromag I</td>
<td>3</td>
<td>C</td>
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<tr>
<td>Senior Physics Lab</td>
<td>PHY 4821L</td>
<td>Senior Phys Lab</td>
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<td>Quantum Mechanics</td>
<td>PHY 4604</td>
<td>Quantum Mechanics I</td>
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<tr>
<td>Approved Physics Electives</td>
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<tr>
<td>General Electives</td>
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</tbody>
</table>

**Term Hours:** 15

## Spring Term 2017

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</tr>
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<tbody>
<tr>
<td>Quantum Mechanics</td>
<td>PHY 4605</td>
<td>Quantum Mech II</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electromagnetism</td>
<td>PHY 4324</td>
<td>Interm Electromag II</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Approved Physics Electives</td>
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<tr>
<td>3000-4000 Level Electives</td>
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<td>General Electives</td>
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</tbody>
</table>

**Term Hours:** 15

## Summer Term 2017

Use this Semester to catch up on coursework if necessary.

### General Requirements

Prerequisites for admission to the major:
CHM1045/CHM1045L ------ CHMX045C or CHMX040 & CHMX041 or CHMX045/X045L
CHM1046/CHM1046L ------ CHMX046C or CHMX046/046L
MAC2311 ------ MACX311 or MACX281
MAC2312 ------ MACX312 or MACX282
MAC2313 ------ MACX313 or MACX283
MAP2302 and PHY1033
PHY2048/2048L ------ PHYX048/X048L or PHYX048C
PHY2049/2049L ------ PHYX049/X049L or PHYX049C

*Critical Indicator is the minimum grade indicated in specific courses to demonstrate proficiency and progress in
Undergraduate Major Map

major. Earning less than the minimum grade is a trigger for a conversation with advisor.*

GENERAL UNIVERSITY REQUIREMENTS

Transfer students are assumed to have completed an Associates of Arts Degree from a Florida Public Institution or satisfied completed 60 credits and the University Core Curriculum Requirements.

In addition, the following courses are required of incoming transfer students:

Global Learning Requirement for Transfers: Transfers entering FIU Fall 2011 or later are required to take two Global Learning Courses.
Those who meet the University Core Curriculum Requirements prior to entering FIU
- Two Global Learning Discipline Specific Courses (One of the two may be a Global Learning Foundation Course chosen in consultation with your advisor)

Those who do not meet the University Core Curriculum Requirements prior to entering FIU
- One Global Learning Foundation Course (from the University Core Curriculum)
- One Global Learning Discipline-Specific Course

Transfer courses may not be used to meet the FIU Global Learning Requirement. For a list of Global Learning courses: http://goglobal.fiu.edu

College of Arts and Sciences: Selected Requirements

Foreign Language Requirement: Students must demonstrate competency in a foreign language or in American Sign Language at the level of the second semester of a college language sequence. You may be able to satisfy this requirement with AP, CLEP Exam, or other credit. Contact your advisor.

Grades: Students must earn a grade of "C" or higher in all courses required for the major. A grade of "C-" or lower is not acceptable in any required course.

This document only lists SELECTED requirements. See your Panther Degree Audit for a full list of CAS and major requirements at http://my.fiu.edu

College of Arts and Sciences: BS in Physics specific requirements

1. Numerical Methods- 3 units
2. Modern physics- 8 units
3. Thermodynamics- 3 units
4. Mechanics- 6 units
5. Electromagnetism- 6 units
6. Quantum Mechanics- 6 units
7. Senior Physics Lab- 3 units
8. Independent Study- 3 units
9. Approved Physics electives- 6 units

Changes to endnotes are below
ADD TO "Prerequisites for admission to the major:"
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MAP2302 and PHY1033

College of Arts and Sciences: BS in Physics specific requirements

1. Numerical Methods- 3 units
2. Modern physics- 6 units
3. Thermodynamics- 3 units
4. Mechanics- 4 units
5. Electromagnetism- 6 units
6. Quantum Mechanics- 6 units
7. Advanced Physics Lab- 3 units
8. Approved Physics electives- 9 units