

Undergraduate Major Map

Catalog Year: 2023
College / School: Arts, Sciences & Education
Major: Physics - BA
Track / Concentration: Physics Education Major
Career Path: Two Year Transfer

Fall Term 2023				
<p>Students in the major must pass all four parts (English Language Skills, Essay, Reading Comprehension, & Mathematics) of the FTCE General Knowledge Test prior to admission into the degree program. If student has not passed exam prior to admission to FIU, then student will be required to take and pass all portions of the General Knowledge test prior to the end of this term. All students must pass the GK Exam by the time they reach 72 credit hours in their program of study. Please see Secondary Education Advisors - 305-348-2978. Students should begin preparations for the Professional Education exam, which must be passed prior to completion of 90 credits.</p>				<p>Term GPA: 2.5 Term Hours: 14 Cum GPA: 2.5</p>
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Physics Education Concentration - Physics Upper Division	PHY 3106	Modern Physics	3	
Thermodynamics	PHY 3513	Thermodynamics	3	
Physics Upper Level	PHY 3802L	Intermed Phys Lab	3	
Physics Education Concentration - Physics Education	SMT 3100	Know and Learn Math and Sci	3	Field hours. Fingerprint clearance required.
Additional Lower Division Cour	SMT 2044	STEP 1&2 Lesson Math and Sci	2	1&2 Combined: Inquiry Based Approaches and Lesson Design for Teaching Mathematics and Science. Fingerprint clearance required

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<p>Spring Term 2024 SCE 4194 and TSL 4324 may be used to satisfy the Global Learning requirement. See endnotes.</p> <p>Students are required to take and pass the Professional Education exam prior to 90 credits.</p> <p>Students should begin preparations to take the Subject Area exam by the end of next semester.</p>				<p>Term GPA: 2 Term Hours: 16 Cum GPA: 2.5</p>
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Physics Education Concentration - Physics Upper Division	PHY 3107	Adv Modern Physics	3	
Physics Education Concentration - Physics Education	SMT 4301	Class Interact Math and Sci	3	
Physics Education Concentration - Physics Education	SCE 4194	Pers in Sci and Math Ed	3	Field hours. Fingerprint clearance required.
Physics Education Concentration - Physics Education	RED 4325	Subj Area Reading	3	
Physics Upper Level Approved Electives			4	

<p>Summer Term 2024 Apply for Student Teaching through Office of Clinical Experiences by June 1st.</p> <p>Complete any pending FTCE exams this term: 1. FTCE Professional Educator Exam 2. FTCE Subject Area Exam</p> <p>Use this Semester to catch up on coursework if necessary.</p>				<p>Term GPA: 2 Term Hours: 7 Cum GPA: 2.5</p>
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Physics Education Concentration - Physics Education	TSL 4324	ESOL Content Areas	3	Field hours. Fingerprint clearance required. Program admission required
General Electives			4	

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Fall Term 2024 Apply for Spring Graduation. Minimum cumulative FIU GPA of a 2.5 and successful completion of all coursework and FTCE exams required PRIOR to placement in Student Teaching.					Term GPA: 2 Term Hours: 17 Cum GPA: 2.5
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Physics Education Concentration - Physics Upper Division	PHY 4221	Intro Classical Mechanics	4		
Physics Upper Level Approved Electives			4		
Physics Education Concentration - Physics Education	SMT 4664	Prob Based Instr Math-Sci	3		
Physics Education Concentration - Physics Upper Division	PHY 4821L	Adv Phys Lab	3		
Physics Education Concentration - Physics Education	PHY 3018	Physics Research Methods	3		

Spring Term 2025 Student teaching is a full-time teaching experience and requires commitment during school hours along with preparation and grading time.					Term GPA: 2 Term Hours: 6 Cum GPA: 2.5
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Physics Education Concentration - Physics Education	SCE 4944	Student Teaching	6		

General Requirements

Prerequisites for admission to the major:

BSC1010/BSC1010L ----- BSCX010/X010L or BSCX010C or BSCX040/X040L or PCBX011C

BSC 1011, BSC 1011L ----- BSCX011/X011L or BSCX011C or BSCX041/X041L

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

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PHY2048/2048L ----- PHYX048/X048L or PHYX048C

PHY2049/2049L ----- PHYX049/X049L or PHYX049C

Entering students must pass FTCE General Knowledge exam prior to being admitted.

Critical Indicator is the minimum grade indicated in specific courses to demonstrate proficiency and progress in 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>

Grades: Students must earn a grade of "C" or higher in all courses required for the major.

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

College specific requirements

Admission Requirement:

1. GPA 2.5 minimum
2. Pass all four sections of the General Knowledge Test (Reading Comprehension, English Language Skills, Mathematics and Essay).

Graduation Requirement:

1. Have an overall GPA of 2.5 or higher
2. Successfully demonstrate all the Florida Educator Accomplish Practices at the pre-professional level. This is done throughout your coursework in the College of Education.
3. Pass the FTCE General Knowledge, Professional Educator and Subject Area exams prior to graduation. Note: At FIU, the Professional Educator and Subject Area exams must be passed prior to Student Teaching.

Testing Requirement:

1. General Knowledge Exam - English Language
2. General Knowledge Exam - Reading

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3. General Knowledge Exam - Essay
4. General Knowledge Exam - Math
5. Professional Education Exam (required for graduation)
6. Subject Area Exam in Physics Education (required for graduation)