FAU	NEW/CHANGE PROGR	AM REQUEST	UGPC Approval			
	Graduate Programs		UFS Approval			
FLORIDA			Banner			
ATLANTIC	Department Physics		Catalog			
UNIVERSITY	College Science					
Program Name New		New Program*	Effective Date			
M.S. with Major in Physics			(TERM & YEAR)			
		Change Program*	Summer 2023			
Please explain	the requested change(s) and offer ra	ationale below or on an	attachment.			
The Department courses, and mu	of Physics wishes to update its Ph.D. prust be updated accordingly. The attached	ogram. The M.S. program proposal makes the follow	uses many of the same ving changes:			
* Eliminate the requirement of a recent GRE subject area score.						
* Update the req	uired TOEFL exam scores for internation	nal students to include all th	nree tests currently offered.			
* Introduce Com importance of si	putational Physics (PHZ 5156, 3 credits) mulation and data analysis methods in th	as a required course to re	flect the increasing			
* Reduce the required credits of Master's Thesis (PHY 6971) from 9 to 6 to keep the program at 30 credits.						
	and changes to existing programs must be according to the control of the control					
Faculty Contact/Email/Phone Chris Beetle <cbeetle@fau.edu> 7-4612</cbeetle@fau.edu>		Consult and list departments that may be affected by the change(s) and attach documentation none				
Approved by			Date			
Department Chair : 314 / :		3/1/2023				
College Curriculum Chair Louis Merlin			03/14/2023			
College Dean Milagola Cardoi			03/14/2023			
UGPC Chair Minaela Cardel (Mar 29, 2023 17:02 EDT)			Mar 29, 2023			
Graduate College Dean William David Kalies			Mar 29, 2023			
Graduate College	Mar 29, 2023					
UFS President .						
Provost						

Email this form and attachments to $\underline{\text{UGPC@fau.edu}}\ 10$ days before the UGPC meeting.

Physics

Master of Science (M.S.)

The Department of Physics offers the Master of Science (M.S.) degree with major in Physics. The degree should be particularly attractive to those intending to seek jobs in industry or in teaching at the secondary or community college levels. The coursework and research experience provided by the M.S. program will also be of value to students whose eventual goal is a Ph.D., although those students are strongly encouraged to enroll directly into the Ph.D. program if possible. The M.S. in Physics normally requires four semesters beyond the B.S. in Physics, or equivalent. The Department also offers a <u>Professional Science Master (P.S.M.) with Major in Medical Physics</u>, an interdisciplinary program, which is described in its own sub-section.

Admission Requirements

In addition to meeting all of the University and College admission requirements for graduate study, applicants for the M.S. in Physics must meet all of the following the departmental requirements:

- 1. Hold aA B.S. degree, or equivalent, in Physics or a closely related field;
- 2. A recent (within the past five years) score in the GRE Physics Test (although scores will affect admissions decisions, the department sets no minimum required score for admission);
- 3.2. Earn aA cumulative GPA of 3.0 average or higher, or equivalent, for in the last 60 credits of undergraduate work;
- 4.3. Approval from Be approved by the Department of Physics; and
- 5.4. For any student from a non-English-speaking country, a Pass a recent TOEFL exam with a minimum score of 550(PBT), 213(CBT), or 79(IBT) (CBT-213) on the TOEFL exam. This requirement is waived for students from countries whose official languages include English.

Degree Requirements

This M.S. degree has two variants, one requiring a thesis, and the other requiring a passing grade in a Comprehensive Exam administered by the department. Both require 30 credits.

M.S. Graduate Core Courses - 15 12 credits required					
Mechanics	PHY 6247	3			
Electromagnetism	PHY 6346	3			
Statistical Mechanics	PHY 6536	3			
Quantum Mechanics 1	PHY 6645	3			
Mathematical Physics Course - 3 credits required					
Mathematical Physics_1	PHZ 5115	3 or			
Mathematical Physics 2	PHZ 5116	3			
Computational Physics Course - 3 credits required					
Computational Physics	<u>PHZ 5156</u>	<u>3</u>			
Elective Courses, Thesis Variant - <u>45-12</u> credits required					
Master's Thesis	PHY 6971	<u>96</u>			
Approved Electives*, **	6				
Elective Courses, Non-Thesis Variant - <u>15-12</u> credits required					

Approved Electives*, **	15 12	
Non-Thesis M.S. candidates must pass a written or oral Comprehensive Exam administered by the department		
Total	30	

^{*} All electives must be approved the department's graduate advisor.
** Only 3 credits of Graduate Research (PHY 6918) may be counted toward this degree.