FLORIDA ATLANTIC	NEW/CHANGE PROGRAM REQUEST Undergraduate Programs Department Physics College Charles E. Schmidt College of Science		UUPC Approval 3/25/24 UFS Approval Banner Catalog
UNIVERSITY			
Program Name Astronomy M	inor	✓ New Program* Change Program*	Effective Date (TERM & YEAR) Fall 2024
Please explain	the requested change(s) and offe	r rationale below or on a	n attachment.
major and provischool. In addition to economic and Philistory,	n a masters or doctorate in astronomy des students the background needed is on, students in other majors, such as filosophy may also want to have a mind ourses listed below, this program will replay in fulfillment of prerequisites for the required to earn at least 12 credits (9 of a required courses listed below. At least requirements are: oduction to Astronomy (3 cr) the following list: chriques in Observational Astronomy (3 cr) are and the Galaxy (3 cr) laxies and Cosmology (3 cr)	accompanied by a catalog entry secompanied entry s	Communications, Marketing, heir career potential. 1105 or MAC 2311) and (PHY
Faculty Contac	s and changes to existing programs must be t/Email/Phone serajedini@fau.edu / 352-281-4286	Consult and list departme change(s) and attach doc	CHIES CHALLINAY DE ATTECTEU D' CTE
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Approved by	X	S	3/11/24
Department Cha	Ky L	. /	3/13/24
, a	College Curriculum Chair		3/13/24
UUPC Chair Undergraduate Studies Dean Dan Mesroff Undergraduate Studies Dean			3/25/24
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UFS President			
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Email this form and attachments to mienning@fau.edu seven business days before the UUPC meeting.

Minor in Astronomy

The Physics Department would like to propose a new Minor in Astronomy. This program consists of:

- 7-8 credits of prerequisites: (MAC 1105 or MAC 2311) and (PHY 2053 or PHY 2048),
- 2 required courses (AST 2002 and AST 3019) for a total of 3 lower-division and 3 upper-division credits, and
- 2 additional courses (6 upper-division credits) from a list of options.

In total, this is a 12 credit program with 9 of these credits at the upper-division.

Background for Proposal

In recent years, the Physics Department has gained a number of faculty with expertise in Astronomy. We would like to leverage these faculty to offer a new program that enhances the educational experience for Physics majors and enhances visibility of our program in other departments around the university.

Comparison to Other Programs

This program was developed with comparison to comparable programs at other Florida SUS schools. Here are 4 other comparable programs for comparison.

- The Astronomy Minor at the University of Florida is a 15 credit program. The difference in credit is associated with them having a two-course sequence (AST 3018 and AST 3019) that we have combined into a single course (AST 3019).
- The Minor in Astrophysics at Florida State University is a 13 credit program. However, only 3 of these credits is in addition to the General Physics sequence (PHY 2048+L and PHY 2049+L).
- The Astronomy Minor at the University of Central Florida is a 10 credit program. 4 of these credits are from General Physics (PHY 2048+L).
- The Astronomy Minor at the University of South Florida is a 12 credit program. 6 of these credits are lower-division and 6 are upper-division.

PHYSICS

ASTRONOMY MINOR

(Minimum of 12 credits required)

The primary intent of this minor is to prepare undergraduate B.S. Physics majors at FAU to attend graduate school intending to earn a master's or doctorate in Astronomy and Astrophysics. The minor builds on the existing Physics major and provides students the background needed in astronomy and astrophysics to succeed in graduate school. In addition, students in other majors, such as Engineering, Journalism and Communications, Marketing, History, and Philosophy may also want to have a minor in Astronomy to enhance their career potential.

In addition to courses listed below, this program will require a "C" or better in (MAC 1105 or MAC 2311) and (PHY 2053 or PHY 2048) in fulfillment of prerequisites for the upper-division coursework.

Students are required to earn at least 12 credits (9 of which must be upper division) with a grade of C or better from among the required courses listed below. At least 9 of these credits must be completed at Florida Atlantic University.

Required Course List		
Introduction to Astronomy	AST 2002	3
Astronomy and Astrophysics	AST 3019	3
Choose at least 2 courses from the following list		
Techniques of Observational Astronomy	AST 3722	3
Solar System Astronomy	AST 3110	3
Stars and the Galaxy	AST 4300	3
Galaxies and Cosmology	AST 4402	3
Total		12

Overall, this degree program requires 10-11 lower-division credits and 9 upper-division credits, including prerequisites.