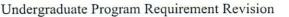
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* denotes required fields



Contact Person*: Steven Federman

Phone: 530-2652

(xxx - xxxx) Email: steven.federman@utoled

Present

Supply all information asked for in this column.(Supply core, researc intensive and transfer module info if applicable)

College*: Coll Nat Sci and Mathematics

Dept/Academic Unit*: Physics Program Code*: sm-asty-ba

*Program Name Astronomy BA

Minimum number of credit hours for completion:

List all courses which comprise the certificate or degree:

Identify term offered

(summer/fall/spring):

Astronomy Major Courses ASTR2010 - Solar System Astronomy ASTR2020 - Stars, Galaxies, and the

Universe

Proposed

Fill in appropriate blanks only where entry differs from first column.

College: --Select a College--

Dept/Academic Unit: --Select a Department--

Program Code: Program Name

Minimum number of credit hours for completion:

List all courses which comprise the certificate or degree:

Astronomy Major Courses ASTR2010 - Solar System Astronomy ASTR2020 - Stars, Galaxies, and the Universe

Identify term offered

(summer/fall/spring):

(YYYY/MM/DD)

Identify delivery method (Online/in class/off campus):

Identify delivery method (Online/in class/off campus):

Proposed Effective Term*: 201240

e.g. 201140 for 2011 Fall

Program Approval:

College Curriculum Authority or Chair:

College Dean:

Faculty Senate Academic Program

Committee:

Uhristine a. Hah Parcht 4/3/12

Date

Date Office of the Provost:

Submit Program Requirement Revision

Administrative Use Only

Effective Date:

CIP Code:

Subsidy Taxonomy:

Program Code:

Instructional Level:

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PROGRAM REQUIREMENT REVISION

Please list the proposed program structure. Attach additional pages as necessary.

College: NSM **Dept/Academic Unit:** Physics and Astronomy

Contact Person: Steven Federman Phone: x2652

Email: steven.federman@utoledo.edu

Program Name: Astronomy BA

Program Level: Undergraduate

Changes and Reason for Changes (Less than 1500 words or 5000 bytes):

The primary reason for the changes is the new credit requirements of the College of Natural Sciences and Mathematics, which raises the required major & related credits to 58 credits for a BA.

The specific changes include:

- Increasing the number of required credits from Physics and Astronomy courses from 34 to 37, to satisfy prerequisites for later courses
- Increasing the number of required credits from in related fields within NSM from 18 to 24

Program: Astronomy B.A.		
1. Astronomy Major Courses		
ASTR2010 - Solar System Astronomy	3	
ASTR2020 - Stars, Galaxies, and the Universe	3	
PHYS2130 or 2070 – Physics I or Gen. Physics I	5	
PHYS2140 or 2080/2100 - Physics II or Gen. Physics II	5	
PHYS3180 - Intermediate Lab	3	
PHYS3310 – Quantum Physics I	3	
PHYS3320 – Quantum Physics II (new)	3	
PHYS3610 or 4620 – Optics and Lasers or Lasers	3	
ASTR4810 – Astronomy I	3	
ASTR4820 – Astronomy II	3	
ASTR4880 - Astrophysical Measurements	3	
TOTAL	37	
2. Related Non-P&A Courses		
MATH 1830 or 1850 or 1920 - Calculus I	4	
MATH 1840 or 1860 or 1930 - Calculus II	4	
MATH 2850 or 2950 – Multivariable Calculus (new)	4	
Other NSM Courses in BIOL, CHEM, or ES	12 (was 10)	
TOTAL	24	

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