UNDERGRADUATE COUNCIL
Request for Change(s)

Originating unit requesting change: Physics & Astronomy

Type of Change requested:

- Course number(s)
- Course title
- Course description
- Course prerequisite(s)
- Program title
- Drop course(s)
- Program description
- Drop program(s)
- Program requirements

Semester and year change(s) take effect: Fall 2010

Appropriate computer abbreviation if course title is more than 30 spaces:

BS Astronomy & Physics

Briefly summarize the change requested:
BS with a Major in Astronomy and Physics
This change is needed to replace PHYS 30111: Experimental Astronomy with PHYS 30123: Observational Astronomy. Additional changes include adding PHYS 30491 due to a previous oversight, adding PHYS class selections due to recently approved course offerings (e.g., PHYS 30843, 50813), and removal of recomandation for MATH 50633

Catalog copy

The BS with a major in astronomy and physics requires 36 semester hours of physics and astronomy, including PHYS 10154, 10164 (or 20474, 20484), 30493, 20073, 20083, 30113, 30111 and 50743, also 12 hours selected from PHYS 30013, 30553, 30603, 30703, 30803, 40113, 40653, 40663, 50703, 50713, 50723, 50733, and either PHYS 40103 or 40003. It is recommended that students planning to attend graduate school take PHYS 30553, 30603, 40113 and 40653. Sixteen hours of mathematics are required, including MATH 10524, 20524, 30224 and 30524. It is recommended that students planning to attend graduate school take MATH 50623 and 50633. Also required are COSC 10503 (or an approved substitute); and either 1) CHEM 10113, 10125 (10123/10122 or 10123/20123 or 10114 and 10124), or 2) CHEM 10113, GEOL 10113 and 30213. Study of a modern language is recommended.

A total of 132 hours is required for a BS with a proposed change(s). (Include exact catalog copy as desired. Underline changes)

The BS with a major in astronomy and physics requires 38 semester hours of physics and astronomy, including PHYS 10154, 10164 (or 20474, 20484), 30493, 20073, 20083, 30113, 30112 and 50743, also 12 hours selected from PHYS 30013, 30491, 30553, 30603, 30703, 30843, 40113, 40653, 40663, 50703, 50713, 50723, 50733, 50813 and either PHYS 40103 or 40003. It is recommended that students planning to attend graduate school take PHYS 30553, 30603, 40113 and 40653. Sixteen hours of mathematics are required, including MATH 10524, 20524, 30224 and 30524. It is recommended that students planning to attend graduate school take MATH 50623. Also required are COSC 10503 (or an approved substitute); and either 1) CHEM 10113, 10125 (10123/10122 or 10123/20123 or 10114 and 10124), or 2) CHEM 10113, GEOL 10113 and 30213. Study of a modern language is recommended.
A total of 132 hours is required for a BS with a major in astronomy and physics.

Request for Changes

1. What is the justification for the change(s) requested?
The course change (PHYS 30111 to PHYS 30123) is needed to teach new topics (modern instrumentation and analysis techniques developed in the last 10 years) which are needed for modern observational astrophysics to prepare students for graduate school. PHYS 30491 being added due to a previous oversight, adding PHYS class selections due to recently approved course offerings (e.g., PHYS 30843, 50813), and removal of recomandation for MATH 50633 as the course no longer exists (was changed to 60633, graduate students only)

2. If applicable, explain how the change(s) will affect the current program outcomes and assessment mechanisms.

3. Faculty Resources: How will the unit provide faculty support for this change and any other impact this change may have on other current departmental listings.

4. Educational Resources: Will this change require additional resources not currently
available (e.g. space, equipment, library, other)?
If yes, list additional resources needed.

YES
NO

5. If this change affects other units of the University, include a statement signed by the chairperson(s) of the affected unit(s).

6. If cross-listed, provide evidence of approval by all curriculum committees appropriate to both the originating and cross-listed units.

Approval signature of chairperson of originating unit

Revised 09/04