Course Change Request

Date Submitted: 02/23/22 4:58 pm

Viewing: ASTR 765 : High-Energy and Accretion Astrophysics

Last edit: 03/08/22 11:16 am

Changes proposed by: ebarreto

Catalog Pages referencing this course

Astronomy (ASTR)

Department of Physics and Astronomy

In Workflow

1. **PHYS GR Committee**
2. **PHYS Chair**
3. **SC Curriculum Committee**
4. SC Associate Dean
5. Assoc Provost-Graduate
6. Registrar-Courses
7. Banner

Approval Path

1. 02/24/22 4:33 pm Ernest Barreto (ebarreto): Approved for PHYS GR Committee
2. 03/07/22 3:57 pm Paul So (paso): Approved for PHYS Chair

Select modification type:

Substantial

Are you completing this form on someone else's behalf?

No

Effective Term: Fall 2022

Subject Code: ASTR - Astronomy **Course Number:** 765

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title:

High-Energy and Accretion Astrophysics

Banner Title: Hi Enrgy/Accrtn Astrphys

Will section titles vary by semester? No

Credits: 3

Schedule Type: Lecture

Hours of Lecture or Seminar per week: 3

Repeatable: May only be taken once for credit (NR)
GRADUATE ONLY

Default Grade Mode: Graduate Regular

Recommended Prerequisite(s):
PHYS 502 and 513, ~~and ASTR 530,~~ or permission of instructor.

Recommended Corequisite(s):

Required Prerequisite(s) / Corequisite(s) (Updates only):

Registrar's Office Use Only - Required Prerequisite(s)/Corequisite(s):

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?

Registration Restrictions (Updates only):

Registrar's Office Use Only - Registration Restrictions:

Field(s) of Study:

Class(es):

Level(s):

Include

Enrollment limited to students with a level of Non-Degree (SCRRLVL_ONLY_ND)

Limited to graduate level students only. (SCRRLVL_ONLY_GR)

Degree(s):

Exclude

Non-Degree Undergraduate Degree students may not enroll. (SCRRDEG_NO_NDU)

School(s):

Catalog Description:

Overview of the field of atomic and nuclear physics, including nuclear reactions of use to high-energy astrophysics. Discusses radiation processes in cosmic plasmas emphasizing quantum mechanical calculations; stellar evolution and nucleosynthesis; computational models of stellar evolution; binary stars and accretion disks; numerical models of the structure of accretion disks; compact stars, white dwarfs, neutron stars, and black holes; acceleration processes and cosmic rays; interstellar medium and propagation of cosmic rays; high-energy processes in the center of galaxies; and ground- and space-based techniques and observations.

Justification:

What: Removing ASTR 530 as a prerequisite.

Why: We wish to remove the recommended prerequisite because the course no longer exists.

Does this course cover material which crosses into another department? No

Learning Outcomes:

Attach Syllabus

Additional Attachments

Specialized Course Categories:

Additional Comments:

Reviewer Comments

Key: 935