

GRADUATE COUNCIL: PROPOSAL FOR CHANGE IN EXISTING COURSE/PROGRAM

Originating Unit Department of Physics & Astronomy

Type of action: change in course change in program

Type of change requested:

- | | |
|---|---|
| <input type="checkbox"/> Number | <input type="checkbox"/> Course Title |
| <input checked="" type="checkbox"/> Description | <input checked="" type="checkbox"/> Prerequisite(s) Program |
| <input type="checkbox"/> Drop Course | <input type="checkbox"/> Requirements |
| <input type="checkbox"/> Drop Program* | <input type="checkbox"/> Other, please specify |

**A SACSCOC Drop Program Justification form will need to be completed*

Semester and year course/program will take effect: Fall 2024

Course instructional methodology:

course component types: [ugradcouncil.tcu.edu/forms/Course Component Types.pdf](http://ugradcouncil.tcu.edu/forms/Course%20Component%20Types.pdf)

Current name: PHYS 50743 - Stellar Astrophysics (3)

Proposed name:

Appropriate computer abbreviation (30 spaces or less):

PHYS 50743 - Stellar Astrophysics (3)

Programs Only

Current program code:

(ex:EDCE-PHD)

Proposed code (list 2) _____ or _____

Current CIP code:

Does the change require a new or change in CIP code: Yes No

If yes, what is the proposed new CIP code:

*for reference please visit: nces.ed.gov/ipeds/cipcode/resources.aspx?y=56

Is the program already considered TCU STEM: Yes No

Does the change include a request to be a TCU STEM program: Yes No

Description of change (omit if dropping a course or program):

We request corrections to the catalog descriptions of the course because the Department performed a detailed overhaul of the undergraduate PHYS courses.

Present Catalog Copy

Prerequisite: Permission of department chair. Spectra and spectral line formation, stellar atmospheres and interiors, star formation and evolution.

Proposed Catalog Copy:

Prerequisites: PHYS 30313, PHYS 30493 and MATH 30524 all with a C- or better, or graduate standing and PHYS 60323, or permission of instructor. This course explores how stars emit light and how astronomers interpret observations of them, including the processes that affect the spectral energy distribution of the light as it travels from the cores of stars, through the atmosphere of stars, and through the intervening medium. This course includes topics on radiative transfer, stellar interiors, stellar atmospheres, and stellar evolution.

Supporting evidence or justification:

The Department performed a detailed overhaul of the undergraduate PHYS courses.

Explain how the change(s) will affect the current outcomes and assessment mechanisms?

The changes will not require additional faculty support and any other impact on other current departmental listings and assessment mechanisms.

Additional resources required

Faculty:

Space:

Equipment:

Library:

Financial Aid:

Other:

Change in teaching load:

Does this change affect any other units of the University? Yes No

If yes, submit supporting statement signed by chair of affected unit.

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

Chair of Originating Unit:

Name:

Unit:

Signature:

Hana Obendorf