Course Change Request

Date Submitted: 10/03/20 11:19 pm

Viewing: PHYS 694 : Applied Mechanics of Solids

Last edit: 10/19/20 9:00 am

Changes proposed by: prubin

Catalog Pages referencing this course

Department of Physics and Astronomy

Physics (PHYS)

Select modification type:

Substantial

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. 10/04/20 11:18 am Ernest Barreto (ebarreto): Approved for PHYS GR Committee
2. 10/04/20 11:46 am Paul So (paso): Approved for PHYS Chair

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

No

Effective Term: Spring 2021

Subject Code: PHYS - Physics

Course Number: 694

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title:

Applied Mechanics of Solids

Banner Title: Applied Mechanics of Solids

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 620

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):

Include
Limited to students with a class of Senior Plus. (SCRRCLS_ONLY_SP)
Limited to students with a class of Non Degree (SCRRCLS_ONLY_ND)

Limited to students with a class of Advanced to Candidacy. (SCRRCLS_ONLY_DC)
Limited to students with a class of Graduate. (SCRRCLS_ONLY_GR)

Level(s):

Include
Enrollment limited to students with a level of Non-Degree (SCRRLVL_ONLY_ND)
Limited to undergraduate level students. (SCRRLVL_ONLY_UG)
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:

Introduction to the physical laws, mathematical formulations, and computer algorithms that are used to predict material and structural response subjected to mechanical or thermal loading. Topics covered includes mathematical description of solids, equations of motion and equilibrium, constitutive equations, principle of virtual work, and fracture mechanics. Analytical technique and numerical method are also covered.

Justification:

We are adding a new prerequisite. Taking PHYS 620 before taking this course will help the student, but doing so is not necessary.

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

Learning Outcomes:

Attach Syllabus

Additional Attachments

Specialized Course Categories:

Additional Comments:

Reviewer Comments

Gregory Craft (gcraft) (10/19/20 9:00 am): Updated Justification

Key: 12607