Course Change Request

Date Submitted: 01/23/19 2:15 pm

Viewing: PHYS 613 : Computational Physics II

Last edit: 01/23/19 2:15 pm

Changes proposed by: prubin

Catalog Pages referencing this course

Computational Science and Informatics (CSI)
Department of Computational and Data Sciences
Department of Physics and Astronomy
Physics (PHYS)

As A Required Prerequisite:

Select modification type:
Substantial

Are you completing this form on someone else's behalf?
No

Effective Term: Fall 2019

Subject Code: PHYS - Physics **Course Number:** 613

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Computational Physics II

Banner Title: Computational Physics II

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~~

Recommended Corequisite(s):

Required Prerequisite(s) / Corequisite(s) (Updates only): **Required Prerequisite: PHYS 510**

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

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
		PHYS 303	C	UG		
And		PHYS 305	C	UG		
And		PHYS 510	B-	GR		

Registration Restrictions (Updates only):

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. 01/23/19 3:42 pm Robert Weigel (rweigel): Approved for PHYS GR Committee
2. 01/23/19 5:07 pm Paul So (paso): Approved for PHYS Chair

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: Study of diverse physical systems with emphasis on modeling and simulation. Study and development of numerical algorithms and techniques to obtain both numerical results and visualization of these results. Projects undertaken will draw from such areas as many-body orbital dynamics, molecular interactions, quantum systems, radiative transfer in high-temperature plasmas, stellar interiors, hydrodynamics, and cosmology.

Justification: The undergraduate requirements are already covered by PHYS 510 and, in any case are not appropriately numbered for most graduate students.

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: 12594