

Course Change Request

Date Submitted: 02/28/18 2:28 pm

Viewing: **PHYS 510 : Computational Physics I**

Last edit: 02/28/18 2:28 pm

Changes proposed by: prubin

Catalog Pages referencing this course

- [Chemistry \(CHEM\)](#)
- [Department of Chemistry and Biochemistry](#)
- [Department of Physics and Astronomy](#)
- [Physics \(PHYS\)](#)
- [VS-PHD-BIOE: Bioengineering, PhD](#)

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

Select modification type:

Substantial

Approval Path

1. 01/23/19 3:43 pm
Robert Weigel (rweigel): Approved for PHYS GR Committee
2. 01/23/19 5:07 pm
Paul So (paso): Approved for PHYS Chair

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

No

Effective Term: Fall 2018

Subject Code: PHYS - Physics

Course Number: 510

Bundled Courses:

Is this course replacing another course?

Equivalent Courses: ~~PHYS 410 - Computational Physics Capstone~~

Catalog Title: Computational Physics I

Banner Title: Computational Physics I

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):

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?
		PHYS 303	C	UG		
And		PHYS 305	C	UG		

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 (SCRRVLV_ONLY_ND)
 Limited to undergraduate level students. (SCRRVLV_ONLY_UG)
 Limited to graduate level students only. (SCRRVLV_ONLY_GR)

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

School(s):

Catalog Description: Study and development leading to computer simulations of various physical systems. Requires the study and development of computational techniques and numerical algorithms to obtain both numerical results and visualization of these results. Application to individual physical processes taking place in a variety of physical systems.

Justification: PHYS 410 will become a writing-intensive and capstone course for the Physics B.S. and meet for 4 hours/week for 4 credits. It and PHYS 510 will no longer be equivalent.

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: 12571