

Course Change Request

Date Submitted: 10/03/20 11:14 pm

Viewing: **PHYS 613 : Computational Physics II**

Last approved: 03/28/19 4:30 am

Last edit: 10/19/20 8:58 am

Changes proposed by: prubin

**Catalog Pages
referencing this
course**

[Computational Science and Informatics \(CSI\)](#)

[Department of Computational and Data Sciences](#)

Select modification type:

Substantial

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

No

Effective Term: Spring 2021

Subject Code:

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 11:45 am
Paul So (paso):
Approved for PHYS Chair

History

1. Mar 28, 2019 by Philip Rubin (prubin)

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 510

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 510 | B- | GR | | |

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 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:

We are changing prerequisite from required to recommended. Some students are adequately prepared for this course without having had PHYS 510, although 510 remains a recommended course.

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 8:58 am): Updated justification per Philip Rubin's email

Key: 12594