

Course Change Request

Date Submitted: 10/23/22 9:44 am

Viewing: **PHYS 325 : Intermediate Computer**

Methods in ~~of Experimental~~ Physics

Last approved: 05/15/20 4:42 am

Last edit: 11/14/22 9:13 am

Changes proposed by: prubin

Catalog Pages
referencing this
course

[Department of Physics and Astronomy](#)

[Physics \(PHYS\)](#)

Select modification type:

Substantial

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

No

In Workflow

1. **PHYS UG Committee**
2. **PHYS Chair**
3. **SC Curriculum Committee**
4. SC Associate Dean
5. Assoc Provost- Undergraduate
6. Registrar-Courses
7. Banner

Approval Path

1. 11/12/22 1:05 pm
Philip Rubin
(prubin): Approved for PHYS UG Committee
2. 11/12/22 1:46 pm
Paul So (paso): Approved for PHYS Chair

History

1. Mar 6, 2019 by Philip Rubin (prubin)
2. May 15, 2020 by Tory Sarro (vsarro)

Effective Term: Spring 2023**Subject Code:** PHYS - Physics**Course Number:** 325**Bundled Courses:****Is this course replacing another course?** No**Equivalent Courses:****Catalog Title:** Intermediate **Computer** Methods **in** ~~of Experimental~~ Physics**Banner Title:** Interm Methods Exp Phys**Will section titles vary by semester?** No**Credits:** 3**Schedule Type:** Laboratory**Hours of Lab or Studio per week:** 3**Repeatable:** May be only taken once for credit, limited to 3 attempts (N3) **Max Allowable Credits:** 9**Default Grade Mode:** Undergraduate Regular**Recommended Prerequisite(s):****Recommended Corequisite(s):****Required Prerequisite(s) / Corequisite(s) (Updates only):**

Prerequisites: PHYS 251 and PHYS 261.

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

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
	(	PHYS 251	C	UG		
Or		PHYS 251	XS	UG)	
And	(	PHYS 261	C	UG		
Or		PHYS 261	XS	UG)	

**Registration
Restrictions
(Updates only):**

Registrar's Office Use Only - Registration Restrictions:

Field(s) of Study:

Class(es):

Level(s):

Degree(s):

School(s):

Catalog

Description:

Computer-based modeling ~~Experiments in mechanics, electromagnetism, and optics with emphasis on~~ data acquisition and analysis **of experiments in mechanics, electromagnetism, and optics..** ~~using state-of-the-art tools.~~

Justification:

What: Slightly modify the course name from Intermediate Methods of Experimental Physics to Intermediate Computer Methods in Physics and catalog description.

Why: The intention is to clarify the content of this course and its association with our Computation Physics concentration and, in particular with the 200-level course, PHYS 251. Before the introduction of PHYS 311 and PHYS 312 into our curriculum, this was the only 300-level course addressing physics experimental techniques. PHYS 311 and 312 now cover important techniques in experimental design and data acquisition, so this course can now focus more on computing problems associating with understanding the experiments and the data collected.

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

Learning Outcomes:

Attach Syllabus

[phys325syllabus.pdf](#)

[PHYS 325 Syllabus edit.pdf](#)

**Additional
Attachments**

**Specialized Course
Categories:**

**Additional
Comments:**

**Reviewer
Comments**

Key: 16175