

Course Change Request

Date Submitted: 04/18/19 10:54 am

Viewing: **PHYS 310 : Physics of Semiconductor Materials and Processing**

Last approved: 02/22/19 4:30 am

Last edit: 04/19/19 1:07 pm

Changes proposed by: prubin

Catalog Pages referencing this course: [Department of Physics and Astronomy](#)
[Physics \(PHYS\)](#)

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

Select modification type:

~~Simple~~
Substantial

Approval Path

1. 05/15/19 1:03 pm
Philip Rubin (prubin): Approved for PHYS UG Committee
2. 05/15/19 4:39 pm
Paul So (paso): Approved for PHYS Chair

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

No

Effective Term: Spring 2020

Subject Code: PHYS - Physics

Course Number: 310

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Physics of Semiconductor Materials and Processing

Banner Title: Semicond Materials/Proc

Will section titles vary by semester? No

Credits: 3

Schedule Type: Lecture

Hours of Lecture or Seminar 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):

History

1. Feb 22, 2019 by Gregory Craft (gcraft)

Required **PHYS 262 or PHYS 307**
 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 160	C	UG		
And		PHYS 260	C	UG		
And		PHYS 262	C	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: Survey of the electronic and structural properties of semiconductors and the physics of semiconductor processing. Topics to be discussed include crystal growth, crystal defects, thin films, thermal properties, lithography, and characterization.

Justification: A background in thermal physics is required, but PHYS 262 is no longer required of physics majors, whereas PHYS 307 is. The PHYS 160 and 260 requisites are to be dropped as redundant.

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

Learning Outcomes:

Attach Syllabus

Additional Attachments

Specialized Course Categories:

Additional Comments:

Reviewer Comments