Course Change Request

Date Submitted: 12/19/18 1:37 pm

Viewing: PHYS 332 : Solar Cells

Last approved: 08/25/17 4:18 am

Last edit: 01/20/19 1:52 pm

Changes proposed by: gcraft

Catalog Pages referencing this course

Department of Physics and Astronomy
Physics (PHYS)

Select modification type:

~~Specialized Course Designation~~
Substantial

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

No

Effective Term: Spring 2019

Subject Code: PHYS - Physics

Course Number: 332

Bundled Courses:

Is this course replacing another course? **No**

Equivalent Courses:

Catalog Title: Solar Cells

Banner Title: Solar Cells

Will section titles vary by semester? No

Credits: 3

Schedule Type: Lecture

Hours of Lecture or Seminar per week: 3

Repeatable: May ~~only~~ be **only** taken once for **credit, limited to 3 attempts (N3)** ~~credit (NR)~~ ~~*GRADUATE ONLY*~~

Max Allowable Credits: **9**

Default Grade Mode: Undergraduate Regular

Recommended Prerequisite(s):

Recommended Corequisite(s):

Required Prerequisite(s) / Corequisite(s) (Updates only): **Required prerequisites: PHYS 260 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 262	C	UG		
And		PHYS 263	C	UG	)	
Or	(	PHYS 245	C	UG		
And		PHYS 246	C	UG	)	

In Workflow

1. **PHYS UG Committee**
2. **SC Academic Affairs**
3. Registrar-Courses
4. Banner

Approval Path

1. 02/01/19 5:24 pm Philip Rubin (prubin): Approved for PHYS UG Committee

History

1. Aug 25, 2017 by Priyanka Champaneri (pchampan)

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: Covers the physics of solar cells, basics of semiconductors, pn junctions, basic structure of solar cells, the latest advances in solar cell materials, and concepts for improving the efficiency of solar cells. Solar cell design based on silicon, copper indium gallium selenide, gallium arsenide, organic solar cells, dye-sensitized solar cells, quantum dots, and nanowires will also be reviewed.

Justification: PHYS 262 and PHYS 263 are no longer part of the physics major. The requisites that include them should be replaced with PHYS 260 and PHYS 261.

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

Learning Outcomes:

Attach Syllabus

Additional Attachments

Specialized Course Categories: Mason Impact

Application for Mason Impact

Select the requested Research/Scholarship designation:

Scholarly Inquiry (RI)

Scholarly Inquiry (RI)

Select any additional SaS learning outcomes which the course meets:

Appropriately analyze scholarly evidence
Choose an appropriate research method for scholarly inquiry
Distinguish between personal beliefs and evidence
Explain how knowledge is situated and shared in relevant scholarly contexts
Explain how scholarly inquiry has value to society
Gather and evaluate evidence appropriate to the inquiry
Take responsibility for creating and executing an original scholarly or creative project

Attach Curriculum Map The designation for the course was previously approved.pdf

Additional Comments: ~~administrative changes made for CIM launch~~

Reviewer Comments

Key: 12529