

# Course Change Request

Date Submitted: 11/06/17 1:05 pm

Viewing: **PHYS 331 : Fundamentals of Renewable Energy**

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

Last edit: 11/06/17 1:09 pm

Changes proposed by: prubin

## Catalog Pages referencing this course

[Department of Physics and Astronomy](#)  
[Physics \(PHYS\)](#)

## Select modification type:

~~Specialized Course Designation~~  
**Substantial**

## In Workflow

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

## Approval Path

1. 02/08/18 6:21 pm  
Philip Rubin  
(prubin): Approved for PHYS UG Committee
2. 02/08/18 6:31 pm  
Paul So (paso): Approved for PHYS Chair

## History

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

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

Yes ~~No~~**Requestor:**

Name	Extension	Email
Harold Geller	31276	hgeller@gmu.edu

**Effective Term:** Spring 2018**Subject Code:** PHYS - Physics**Course Number:**

331

**Bundled Courses:****Equivalent Courses:****Catalog Title:** Fundamentals of Renewable Energy**Banner Title:** Fundamentals Renewable Energy**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)**Default Grade  
Mode:** Undergraduate Regular**Recommended  
Prerequisite(s):****Recommended  
Corequisite(s):****Required  
Prerequisite(s) /  
Corequisite(s)  
(Updates only):**

PHYS 260

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

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
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		PHYS 262	C	UG		
Or		PHYS 266	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:

Introduces the physical principles for a range of renewable energies, including solar, wind, hydropower and geothermal. Demonstrates how the application of methods and principles of physics allow us to understand the basic operation, advantages, limitations and relative merits of various renewable energy sources.

Designed for students majoring in the sciences or engineering but useful for students interested in science policy, business, global change and sustainable development.

### Justification:

**PHYS 262 is no longer a required course for physics majors, and the material of PHYS 262 is not considered necessary to manage the material of PHYS 331.**

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

### Learning Outcomes:

**Attach Syllabus  
(PDFs only)**

**Additional  
Attachments (PDFs  
only)**

**Specialized Course  
Categories:**  
Green Leaf

## Green Leaf Course Designation

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**The proposed course is requesting (choose one):**

Sustainability-related designation

**Below, include a brief statement regarding how this course meets either the “sustainability focused” or “sustainably related” criteria.**

**Sustainability-related courses help build knowledge about a component of sustainability or introduce students to sustainability concepts during part of the course. They may complement sustainability-focused courses by providing students with in-depth knowledge of a particular aspect or dimension of sustainability (such as the natural environment) or by providing a focus area (such as renewable energy) for a student’s sustainability studies, or they may broaden students’ understanding of sustainability from within different disciplines.**

previously approved

**Attach Syllabus (PDFs only)**

**Additional Comments:**

~~administrative changes made for CIM launch~~

**Reviewer Comments**

Key: 12528