

Course Change Request

New Course Proposal

Date Submitted: 09/24/20 2:39 pm

Viewing: **PHYS 411 : Renewable Energy Internship**

Last edit: 09/24/20 2:39 pm

Changes proposed by: prubin

**Programs
referencing this
course**

[RNRG: Renewable Energy Interdisciplinary Minor](#)

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

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. 05/13/20 9:34 am
Philip Rubin
(prubin): Approved
for PHYS UG
Committee
2. 05/13/20 11:04 am
Paul So (paso):
Approved for PHYS
Chair
3. 08/25/20 10:15 am
Jennifer Bazaz
Gettys (jbazaz):
Rollback to Initiator
4. 09/24/20 2:39 pm
Philip Rubin
(prubin): Approved
for PHYS UG
Committee
5. 09/24/20 2:50 pm
Paul So (paso):
Approved for PHYS
Chair

No

Effective Term: Fall 2021**Subject Code:** PHYS - Physics**Course Number:** 411**Bundled Courses:****Is this course replacing another course?** No**Equivalent Courses:****Catalog Title:** Renewable Energy Internship**Banner Title:** Renewable Energy Internship**Will section titles vary by semester?** No**Credits:** 3**Schedule Type:** Internship**Hours of Other Contact Hours per week:** 3**Repeatable:** May only be taken once for credit, limited to 2 attempts (N2) **Max Allowable Credits:** 6**Default Grade Mode:** Undergraduate Regular**Recommended Prerequisite(s):****Recommended Corequisite(s):****Required Prerequisite(s) / Corequisite(s) (Updates only):**
PHYS 131**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		
And		PHYS 301	C	UG		
And		PHYS 303	C	UG		

And/Or	(Course/Test Code	Min Grade/Score	Academic Level)	Concurrency?
And		PHYS 305	C	UG		
And		PHYS 307	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:

On-the-job experience for Renewable Energy minors in industry, government, or non-profit organizations, including Summer programs.

Justification:

The Renewable Energy minor offers an internship for credit, but the requisites for this internship differ from those of PHYS 409, the physics internship course.

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

Learning Outcomes:

Attach Syllabus

[blank411syllabus.pdf](#)

**Additional
Attachments**

Staffing:

Camelli, Cressman, Gliozzi, Weingartner

**Relationship to
Existing Programs:**

An elective for the Renewable Energy minor

**Relationship to
Existing Courses:**

PHYS 131 is a prerequisite.

**Additional
Comments:**

**Reviewer
Comments**

Jennifer Bazaz Gettys (jbazaz) (08/25/20 10:15 am): Rollback: Rolling back for ease of revision post-COSCC.

Key: 16834

PHYS 411 – Renewable Energy Internship Syllabus

Instructor:
Office:
Phone:
E-mail:
Office Hours:

Please note:

- All e-mail communication from the instructor concerning this course will be to GMU accounts only.
- If you are a student with a disability and require academic accommodations, please see the instructor and contact the Office of Disability Resources at 703.993.2474. All academic accommodations must be arranged through that office.

Course Goals:

1. Undertake an internship related to the Renewable Energy minor
2. Demonstrate advanced writing and oral communication skills

Expectations

- Presentation to physics majors, other Renewable Energy minors, and faculty [10% of final grade]
- Written report detailing internship accomplishments [15%]
- Satisfactory evaluation from internship advisor [75%]

Grading:

A+=100-96.67	A=96.66-93.33	A-=93.32-90
B+=89.99-86.67	B=86.66-83.33	B-=83.32-80
C+=79.99-76.67	C=76.66-73.33	C-=73.32-70
	D=69.99-60	
	F<60	

Internship Placements You are encouraged to arrange an internship that interests you. Here follows a list of potential hosts and organizations that can facilitate identifying a host. You are, of course, not limited to this list.

- American Council on Renewable Energy
- American Wind Energy Association
- Environmental and Energy Study Institute
- U.S. Green Building Council
- American Council for an Energy Efficient Economy
- U.S. Energy Association
- Solar Energy Industries Association
- Energy Storage Association
- Resources for the Future
- American Solar Energy Society
- Business Council for Sustainable Energy
- Fuel Cell & Hydrogen Energy Association
- Renewable Fuels Association
- DC Sustainable Energy Utility
- DC Government Department of Energy & Environment
- Geothermal Energy Association (GEA)
- National Renewable Energy Laboratory
- MDV-SEIA (solar energy industries association for MD, DE, DC, VA)

Requirements for Commencing an Internship

1. A document defining the time interval of the internship and describing the work to be done, including presentable results that can be checked against what actually was done, signed by both student and supervisor
2. An agreement signed by the supervisor to evaluate the work upon completion of the internship
3. An agreement signed by the student to present the results of the work in both written and oral form at GMU upon completion of the internship

Honor Code Violations: Science is impossible when dishonesty, in any manifestation, exists. It's the worst possible conduct a scientist can display. Dishonesty of any sort (cheating, plagiarism, lying, stealing), will be reported to the honor council for further disciplinary action. **Don't cheat.**

The GMU Honor Code: <https://oai.gmu.edu/mason-honor-code/>