

Program Change Request

Date Submitted: 11/15/22 3:15 pm

Viewing: **RNRG : Renewable Energy**

Interdisciplinary Minor

Last approved: 01/29/21 3:38 pm

Last edit: 11/16/22 3:22 pm

Changes proposed by: prubin

Catalog Pages

Using this Program

[Renewable Energy Interdisciplinary Minor](#)

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

Yes

Requestor:

In Workflow

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

Approval Path

1. 11/22/22 9:53 pm
Philip Rubin
(prubin): Approved for PHYS UG Committee
2. 11/23/22 12:34 pm
Paul So (paso): Approved for PHYS Chair

History

1. Nov 14, 2017 by
clmig-jwehrheim
2. Feb 22, 2018 by
rzachari
3. Feb 3, 2019 by
Philip Rubin
(prubin)
4. Mar 16, 2020 by
Tory Sarro (vsarro)
5. Jan 29, 2021 by
Philip Rubin
(prubin)

Name	Extension	Email
Philip Rubin	3815	prubin@gmu.edu

Effective Catalog: 2023-2024

Program Level: Undergraduate

Program Type: Minor

Title: Renewable Energy Interdisciplinary Minor

Banner Title: Renewable Energy Interdiscipl

**Registrar's Office
Use Only –
Program Start Term**

**Registrar/OAPI Use
Only – SACSCOC
Status**

College/School: College of Science

**Department /
Academic Unit:** Physics & Astronomy

**Jointly Owned
Program?** No

Justification

What: Replacing PHYS courses with mirrored RENE courses. In addition, COMM 204 has replaced COMM 330 as an elective, as directed by the Communication Department, which deactivated COMM330 and replaced it with COMM 204.

Why: Students with an interest in renewable energy have been scared away from the minor by the PHYS designation in the core courses. The new RENE subject code gives a better description of the courses than the PHYS subject code, and should be more inviting for students.

Catalog Published Information

**Total Credits
Required:** Total credits: 15-17

Registrar's Office Use Only - Program Code:
RNRG

**Registrar/IRR Use
Only – Program CIP
Code**

**Admission
Requirements:**

**Program-Specific
Policies:**

Policies

Eight credits of coursework must be unique to the minor and students must complete all coursework with a minimum GPA of 2.00. For policies governing all minors, see [AP.5.3.4 Minors](#).

Degree Requirements:

Students should refer to the [Admissions & Policies](#) tab for specific policies related to this program.

Core Courses

Complete the following core courses:

PHYS 131	Introduction to Renewable Energy	3
PHYS 411	Renewable Energy Internship	3
RENE 131	Introduction to Renewable Energy	3
RENE 411	Renewable Energy Internship	3
Total Credits		6

Minor Options

Choose three courses, including: 9 -
11

One (1) course (3 credits) from Category A

One (1) course (3-4 credits) from Category B

One (1) course (3-4 credits) from Category C or one (1) 300-400 level course (3-4 credits) from Category A or Category B

Category A: Economics and Policy

ECON 100	Economics for the Citizen (Mason Core)
or ECON 103	Contemporary Microeconomic Principles (Mason Core)
or ECON 104	Contemporary Macroeconomic Principles (Mason Core)
or ECON 105	Environmental Economics for the Citizen (Mason Core)
ECON 309	Economic Problems and Public Policies
ECON 335	Environmental Economics
ECON 435	Economics of Energy
EVPP 338	Economics of Environmental Policy
EVPP/GOVT 361	Introduction to Environmental Policy
EVPP 432	Energy Policy
GGS 303	Geography of Resource Conservation (Mason Core)
GGS 307	Geographic Approaches for Sustainable Development

GOVT 304 American State and Local Government

GOVT 364 Public Policy Making

Category B: Science and Technology

CEIE 100 Environmental Engineering around the World (Mason Core)

CHEM 101 Introduction to Modern Chemistry (Mason Core)

or CHEM 102 Chemistry for Changing Times (Mason Core)

or CHEM 103 Chemical Science in a Modern Society (Mason Core)

or CHEM 104 Chemistry for Changing Times (Mason Core)

or CHEM 155 Introduction to Environmental Chemistry I (Mason Core)

or CHEM 211 General Chemistry I (Mason Core)

or CHEM 271 General Chemistry for Engineers Lecture (Mason Core)

CHEM 156 Introduction to Environmental Chemistry II (Mason Core)

or CHEM 212 General Chemistry II (Mason Core)

CHEM 331 Physical Chemistry I

CHEM 332 Physical Chemistry II

CLIM 101 Global Warming: Weather, Climate, and Society (Mason Core)

or CLIM 102 Introduction to Global Climate Change Science (Mason Core)

GGS 102 Physical Geography (Mason Core)

GGS 121 Dynamic Atmosphere and Hydrosphere (Mason Core)

GGS 122 Dynamic Geosphere and Ecosphere

GEOL 321 Geology of Energy Resources

PHYS 331 Physics of Renewable Energy

PHYS 332 Solar Cells

PHYS 385 Materials Science with Applications to Renewable Energy

STAT 250 Introductory Statistics I (Mason Core)

or STAT 344 Probability and Statistics for Engineers and Scientists I

or STAT 346 Probability for Engineers

Category C: Business and Communication

ACCT 203 Survey of Accounting

or ACCT 204 Honors Survey of Accounting

BULE 303 Legal Environment of Business

BUS 200 Global Environment of Business (Mason Core)

BUS 210 Business Analytics I (Mason Core)

BUS 310 Business Analytics II

COMM 204 Introduction to Public Relations

COMM 303 Writing across the Media

~~COMM 330 Principles of Public Relations~~

EVPP 322 Business and Sustainability

EVPP 401 Integrated Environmental Assessment

EVPP 472 Tools and Techniques for International Development

GOVT 358 Nonprofit Financial Planning

MBUS 300

Accounting in a Global Economy

MBUS 306

Managing Projects and Operations

MGMT 303

Principles of Management

Total Credits

9-11

**Retroactive
Requirements**

Updates:

Program Outcomes

OAPI Use Only – Determination of SACSCOC Impact

Comments or Notes

Green Leaf Program Designation

Is this a Green Leaf program? No

Does this program cover material which crosses into another department?

No

Additional Attachments

Reviewer Comments

Additional Comments

Is this course required of all students in this degree program?

%wi_required.eshtml%