



Course Approval Form

For instructions:

<http://registrar.gmu.edu/facultystaff/catalog-revisions/course/>

Action Requested: (definitions available at website above)

☐ Create NEW ☐ Inactivate
☒ Modify (check all that apply below)

Course Level:

☐ Undergraduate ☐ Graduate

☒ Title (must be 75% similar to original) ☐ Repeat Status
☐ Credits ☐ Schedule Type

☒ Prereq/coreq ☐ Grade Mode
☐ Restrictions ☒ Other: Catalog description

College/School: COS **Department:** Physics & Astronomy
Submitted by: Phil Rubin **Ext:** 3815 **Email:** prubin@gmu.edu

Subject Code: PHYS **Number:** 308 **Effective Term:** ☐ Fall ☒ Spring ☐ Summer
(Do not list multiple codes or numbers. Each course proposal must have a separate form.) Year 2018

Title: Current Modern Physics with Applications **Fulfills Mason Core Req?** (undergrad only)
Banner (30 characters max w/ spaces) Currently fulfills requirement
New Modern Physics Submission in progress

Credits: (check one) ☒ Fixed ☒ Variable 3 to 0
☐ Lec + Lab/Rct ☒ 0 or **Repeat Status:** (check one) ☒ Not Repeatable (NR)
☐ Repeatable within degree (RD) ☒ Max credits allowed:
☐ Repeatable within term (RT) ☒ (required for RT/RD status only)

Grade Mode: (check one) ☒ Regular (A, B, C, etc.) ☐ Satisfactory/No Credit ☐ Special (A, B C, etc. +IP)
Schedule Type: (check one) ☒ Lecture (LEC) ☐ Lab (LAB) ☐ Recitation (RCT) ☐ Internship (INT)
LEC can include LAB or RCT if linked sections will be offered ☐ Independent Study (IND) ☐ Seminar (SEM) ☐ Studio (STU)

Prerequisite(s) (NOTE: hard-coding requires separate Prereq Checking form; see above website) *

C or higher in PHYS 260

Corequisite(s):**Restrictions Enforced by System:** Major, College, Degree, Program, etc. Include Code(s).

C or higher in PHYS 260

Equivalencies (check only as applicable):

☐ YES, course is 100% equivalent to
☐ YES, course renumbered to or replaces

Catalog Copy (Consult University Catalog for models)

Description (No more than 60 words, use verb phrases and present tense) Introduces relativity, quantum mechanics, and selected topics in modern physics		Notes (List additional information for the course)	
Indicate number of contact hours:		Hours of Lecture or Seminar per week: <u>3</u>	Hours of Lab or Studio: <u></u>
When Offered: (check all that apply)		<input checked="" type="checkbox"/> Fall <input type="checkbox"/> Summer <input checked="" type="checkbox"/> Spring	

Approval Signatures

Department Approval _____ Date _____ College/School Approval _____ Date _____

If this course includes subject matter currently dealt with by any other units, the originating department must circulate this proposal for review by those units and obtain the necessary signatures prior to submission. Failure to do so will delay action on this proposal.

Unit Name	Unit Approval Name	Unit Approver's Signature	Date

Undergraduate or Graduate Council Approval

UGC or GC Council Member _____ Provost's Office _____ UGC or GC Approval Date _____

Form revised 9/2/2016

Course Proposal Submitted to the College of Science Curriculum Committee (COSCC)

The form above is processed by the Office of the University Registrar. This second page is for the COSCC's reference. Please complete the applicable portions of this page to clearly communicate what the form above is requesting.

FOR ALL COURSES (required)

Course Number and Title: PHYS 308 – Modern Physics

Date of Departmental Approval:

FOR MODIFIED COURSES (required if modifying a course)

- Summary of the Modification: Shorten course title, change requisites, update catalog description
- Text before Modification (title, repeat status, catalog description, etc.):

PHYS 308 - Modern Physics with Applications

Credits: 3

Not Repeatable for Credit

Offered by Physics and Astronomy

Study of modern physics with emphasis on applications. Topics include introductory quantum physics; modern optics; lasers; binding and energy bands in solids; electrical, thermal, and magnetic properties of solids; semiconductors; radioactivity; nuclear reactions; radiation detectors; and applications of nuclear physics to other sciences.

Prerequisite(s): C or higher in PHYS 262.

Prerequisite(s) enforced by registration system.

Corequisite(s): MATH 214

Schedule Type: LEC

Hours of Lecture or Seminar per week: 3

Hours of Lab or Studio per week: 0

- Text after Modification (title, repeat status, catalog description, etc.):

PHYS 308 - Modern Physics

Credits: 3

Not Repeatable for Credit

Offered by Physics and Astronomy

Introduces relativity, quantum mechanics, and selected topics in modern physics.

Prerequisite(s): C or higher in PHYS 260.

Prerequisite(s) enforced by registration system.

Corequisite(s): MATH 214

Schedule Type: LEC

Hours of Lecture or Seminar per week: 3

Hours of Lab or Studio per week: 0

- Reason for the Modification: Title and catalog description are no longer descriptive of the course content; revised physics BS requires modifying requisites.
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