



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; hours

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

Subject Code: PHYS **Number:** 416 **Effective Term:** ☒ Fall ☐ Spring ☐ Summer
(Do not list multiple codes or numbers. Each course proposal must have a separate form.) Year 2017

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

Credits: (check one) ☒ Fixed ☒ Variable 1 to
☐ Lec + Lab/Rct ☒ 0 or **Repeat Status:** (check one) ☒ Not Repeatable (NR)
☐ Repeatable within degree (RD) ☒ Repeatable within term (RT) ☒ Max credits allowed: (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)
☐ Independent Study (IND) ☐ Seminar (SEM) ☐ Studio (STU)
LEC can include LAB or RCT if linked sections will be offered

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

A grade of C or better in all other Physics Core Courses (physics majors) or all other Required Physics Courses (astronomy majors)

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

Physics and Astronomy majors only

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) Emphasizing the breadth of physical understanding needed to approach physics problems, the course reviews undergraduate physics through assigned, GRE test-like, problems.	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 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 416 Special Topics in Undergraduate Physics

Date of Departmental Approval:

FOR MODIFIED COURSES (required if modifying a course)

- Summary of the Modification: Clarify the requisites for the course and refine the course title and catalog description; limit enrollment to physics and astronomy majors; increase lecture hours from 2 to 3 per week.
- Text before Modification (title, repeat status, catalog description, etc.):

PHYS 416 - Special Topics in Modern Physics

Credits: 1

Not Repeatable for Credit

Offered by Physics and Astronomy

Topics of current interest in modern physics with emphasis on the breadth of physical understanding needed to approach many of today's problems. The course will also review all of undergraduate physics through assigned problems from the GRE test.

Prerequisite(s): 21 credits of physics courses.

Schedule Type: LEC

Hours of Lecture or Seminar per week: 2

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

PHYS 416 - Special Topics in **Undergraduate** Physics

Credits: 1

Not Repeatable for Credit

Offered by Physics and Astronomy

Emphasizing the breadth of physical understanding needed to approach physics problems, the course reviews undergraduate physics through assigned, GRE test-like, problems.

Notes: For **physics and astronomy** majors.

Prerequisite(s): **A grade of C or better in all other Physics Core Courses (physics majors) or all other Required Physics Courses (astronomy majors)**

Schedule Type: LEC

Hours of Lecture or Seminar per week: **3**

- Reason for the Modification: The course has been given a new strategic position in—and is now required by—both the physics and astronomy majors. The modifications hone the focus of the course to this purpose.