



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 Prereq/coreq Grade Mode
 Credits Schedule Type Restrictions Other: Hours reallocated Add note

College/School: Department:
Submitted by: Ext: Email:

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

Title: Current Banner (30 characters max w/ spaces) New

Fulfills Mason Core Req?

 (undergrad only)

Currently fulfills requirement
 Submission in progress

Credits: (check one) Fixed Variable Lec + Lab/Rct
 to 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):

Corequisite(s):

Restrictions Enforced by System:

 Major, College, Degree, Program, etc. Include Code(s).

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) Advanced experiments in modern physics: electronics, optics, condensed matter, and nuclear physics. Techniques for recording, graphically and statistically analyzing, and reporting data. Typical experiments include the Frank-Hertz experiment, Hall Effect, electron spin resonance, nuclear magnetic resonance and optical pumping.	Notes (List additional information for the course) Satisfies capstone requirement for physics B.S. This course meets the writing-intensive requirement.
Indicate number of contact hours: Hours of Lecture or Seminar per week: <input type="text" value="2"/> Hours of Lab or Studio: <input type="text" value="5"/>	
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 _____

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 407 - Senior Laboratory in Modern Physics

Date of Departmental Approval:

FOR MODIFIED COURSES (required if modifying a course)

- Summary of the Modification: Change requisites, credits, hours; add note
- Text before Modification (title, repeat status, catalog description, etc.):

PHYS 407 - Senior Laboratory in Modern Physics

Credits: 3

Not Repeatable for Credit

Offered by Physics and Astronomy Advanced experiments in modern physics: electronics, optics, condensed matter, and nuclear physics. Techniques for recording, graphically and statistically analyzing, and reporting data. Typical experiments include the Frank-Hertz experiment, Hall Effect, electron spin resonance, nuclear magnetic resonance and optical pumping.

Fulfills writing intensive requirement in the major.

Prerequisite(s): C or higher in PHYS 263, 305, 308.

Prerequisite(s) enforced by registration system.

Corequisite(s): PHYS 402.

Notes: This course meets the writing-intensive requirement.

Schedule Type: LAB

Hours of Lecture or Seminar per week: 3

Hours of Lab or Studio per week: 9

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

PHYS 407 - Senior Laboratory in Modern Physics

Credits: 4

Not Repeatable for Credit

Offered by Physics and Astronomy Advanced experiments in modern physics: electronics, optics, condensed matter, and nuclear physics. Techniques for recording, graphically and statistically analyzing, and reporting data. Typical experiments include the Franck-Hertz experiment, Hall Effect, electron spin resonance, nuclear magnetic resonance and optical pumping.

Satisfies capstone requirement for the major. Franck

Fulfills writing intensive requirement in the major.

Prerequisite(s): PHYS 402.

Prerequisite(s) enforced by registration system.

Corequisite(s): ~~PHYS 402.~~

Notes: This course satisfies the capstone requirement. This course meets the writing-intensive requirement.

Schedule Type: LAB

Hours of Lecture or Seminar per week: 2

Hours of Lab or Studio per week: 5

- Reason for the Modification: Material requires an existing foundation of basic quantum mechanics to understand and interpret experiments; course meets for 7 hours/week, and ASTR 402, the other capstone course, earns 4 credits; Physics BS replacing Synthesis requirement with capstone.