



Course Approval Form

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

Action Requested:

Create new course Inactivate existing course

Modify existing course (check all that apply)

Title Credits Repeat Status Grade Type

Prereq/coreq Schedule Type Restrictions

Other: _____

Course Level:

Undergraduate

Graduate

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: Fixed to Variable

Repeat Status: Not Repeatable (NR) Repeatable within degree (RD) Repeatable within term (RT) Maximum credits allowed:

Grade Mode: Regular (A, B, C, etc.) Satisfactory/No Credit Special (A, B C, etc. +IP)

Schedule Type: Lecture (LEC) Lab (LAB) Recitation (RCT) Internship (INT)

Independent Study (IND) Seminar (SEM) Studio (STU)

Prerequisite(s): Corequisite(s):

Instructional Mode: 100% face-to-face Hybrid: ≤ 50% electronically delivered 100% electronically delivered

Restrictions Enforced by System: Major, College, Degree, Program, etc. (include code)

Equivalencies: (check only as applicable)

YES, course is 100% equivalent to: _____

YES, course is being renumbered to/will replace the following: _____

Catalog Copy for NEW Courses Only (Consult University Catalog for models)

Description (No more than 60 words, use verb phrases and present tense)	Notes (List additional information for the course)

Indicate number of contact hours: Hours of Lecture or Seminar per week: Hours of Lab or Studio:

When Offered: (check all that apply) Fall Summer Spring

Approval Signatures

Department Approval: _____ Date: 10/14/2015 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

For Graduate Courses Only

Graduate Council Member: _____ Provost Office: _____ Graduate Council 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: Principles of Modeling and Simulation in Science

Date of Departmental Approval: 9/4/2015

FOR MODIFIED COURSES

- Summary of the Modification:
Modification of the title and prerequisites
 - Text before Modification :
Title: Computational Physics and Applications
Prerequisites: PHYS 502; FORTRAN, C, or C++ programming; or permission of instructor
Equivalence; course is equivalent to PHYS 613 Computational Physics II
 - Text after Modification (title, repeat status, catalog description, etc.):
Title : Principles of Modeling and Simulation in Science
Prerequisites: Competency in programming at CSI 501 level or permission of instructor
Equivalence: The course is no longer equivalent to other courses
 - Reason for the Modification:
Currently, CSI 780 title reflects poorly the purpose of the course and the prerequisites do not need material relevant to PHYS 502 Introduction to Quantum Mechanics and Atomic Physics. Instead, students need competency in programming at the level of CSI 501, which is a programming course offered regularly in support of modeling and simulation.
The equivalence with PHYS 613 is a legacy never corrected. Currently title, catalog description and prerequisites are all different. Equivalence is therefore misleading for the students.
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