Course Approval Form

For approval of new courses and deletions or modifications to an existing course.

registrar.gmu.edu/facultystaff/curriculum

Action Requested:

[ ] Create new course
[x] Modify existing course (check all that apply)
[ ] Inactivate existing course

[ ] Title	[ ] Credits	[ ] Repeat Status	[ ] Grade Type
[x] Prereq/coreq	[ ] Schedule Type	[ ] Restrictions	
[ ] Other: _____			

Course Level:

[x] Undergraduate
[ ] Graduate

College/School: COS **Department:** SPACS
Submitted by: D. Papaconstantopoulos **Ext:** 3624 **Email:** dpapacon@gmu.edu

Subject Code: CDS **Number:** 411 **Effective Term:** [x] Fall
(Do not list multiple codes or numbers. Each course proposal must have a separate form.) [ ] Spring *Year* 2012
[ ] Summer

Title: Current Modeling and Simulation II
Banner (30 characters max including spaces) _____
New _____

Credits: (check one) [x] Fixed 3 or [ ] Variable ___ to ___

Repeat Status: (check one) [x] Not Repeatable (NR)
[ ] Repeatable within degree (RD)
[ ] Repeatable within term (RT)
Maximum credits allowed: ___

Grade Mode: (check one)
[x] Regular (A, B, C, etc.)
[ ] Satisfactory/No Credit
[ ] Special (A, B C, etc. +IP)

Schedule Type: (check one)
LEC can include LAB or RCT
[x] Lecture (LEC)
[ ] Lab (LAB)
[ ] Recitation (RCT)
[ ] Internship (INT)
[ ] Independent Study (IND)
[ ] Seminar (SEM)
[ ] Studio (STU)

Prerequisite(s):
MATH 446, PHYS 262 or PHYS 245, and a 200- or higher-level computational methods course, or permission of instructor

Corequisite(s):

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

Restrictions Enforced by System: Major, College, Degree, Program, etc**.** Include Code.
_____

Are there equivalent course(s)?
[ ] Yes [x] No
If yes, please list _____

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 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

Summary and Justification for Modification in Course Prerequisites for CDS 411 Modeling and Simulation II:

We are requesting the following changes in the prerequisites of CDS 411: We remove CDS 410 as a prerequisite, and replace it with MATH 446, a 200+-level computational methods course, and a full introductory physics sequence.

Our three-year experience in teaching this course has demonstrated that the students do not need two semesters of numerical analysis (MATH 446 and CDS 410), as was originally envisioned when this course was created several years ago, but this course does require an introductory course in modeling and simulation and an understanding of classical and basic modern physics. Note that MATH 446 (which will now be an explicit prerequisite) was already an implicit prerequisite in the current catalog, since it was a prerequisite for CDS 410, which has been the prerequisite for CDS 411.