## Course Approval Form

### Action Requested:
- [ ] Create new course
- [ ] Modify existing course
- [x] Inactivate existing course
- [ ] Title
- [x] Prereq/coreq
- [ ] Other:

### Course Level:
- [x] Undergraduate
- [ ] Graduate

### College/School:
- College of Science

### Department:
- CDS

### Subject Code:
- CDS

### Number:
- 461

### Title:
- Current N-body Simulation Methods
- Banner: Mol Dyn & Monte Carlo Simulations
- New: Molecular Dynamics and Monte Carlo Simulations

### Credits:
- (check one) 
- Fixed
- Variable

### Repeat Status:
- (check one)
- Not Repeatable (NR)
- Repeatable within degree (RD)
- Repeatable within term (RT)

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

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

### Prerequisite(s):
- Competency in programming at CDS 251 level, college physics, and MATH 214 or MATH 216, or permission of instructor

### Corequisite(s):

### Effective Term:
- [x] Fall
- [ ] Spring
- [ ] Summer
- Year: 2015

### Fulfills Mason Core Req?
- (undergrad only)
- Currently fulfills requirement
- Submission in progress

### 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)

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

### Approval Signatures

**10/14/2015**

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.

### For Graduate Courses Only

For Registrar Office’s Use Only: Banner ___________________________ Catalog ___________________________ revised 6/22/15
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: N-Body Simulation Methods
  Prerequisites: MATH 203, MATH 213, CS 211

- Text after Modification (title, repeat status, catalog description, etc.):
  Title: Molecular Dynamics and Monte Carlo Simulations
  Prerequisites: Competency in programming at CDS 251 level, college physics, MATH 241 or 216, or permission of instructor

- Reason for the Modification:
  Currently, CDS 461 title reflects poorly the purpose of the course and the prerequisites do not need material relevant to the listed MATH and CS courses. Instead, students need competency in programming at the level of CDS 251, which is a programming course offered regularly in support of modeling and simulation.