Course Change Request

Date Submitted: 12/05/18 10:37 am

Viewing: CSI 780 : Principles of Modeling and

Simulation in Science

Last edit: 12/05/18 10:37 am

Changes proposed by: blaisten

Catalog Pages referencing this course <u>Computational Science and Informatics (CSI)</u> <u>Department of Computational and Data Sciences</u>

Select modification type:

Substantial

Are you completing this form on someone else's behalf?

No

Effective Term:	Fall 2019						
Subject Code:	CSI - Computational Science & Informatics	Course Number: 780					
Bundled Courses:							
Is this course replacing another course? No							
Equivalent Courses:							
Catalog Title:	Principles of Modeling and Simulation in Science						
Banner Title:	Principles Modeling/Simulation						
Will section titles vary by semester?	No						
Credits:							

In Workflow

1. CDS Chair

- 2. SC Curriculum Committee
- 3. SC Associate Dean
- 4. Assoc Provost-Graduate
- 5. Registrar-Courses
- 6. Banner

Approval Path

 12/05/18 12:49 pm Jason Kinser (jkinser): Approved for CDS Chair

	3	
Schedule Type:	Lecture	
Hours of Lecture or Se week:	eminar per	3
Repeatable:	May only be taken *GRADUATE ONL	n once for credit (NR) Y*
Default Grade Mode:	Graduate Regular	
Recommended Prerequisite(s): Competency in progr	ramming at CSI 501	L level and college physics, or permission of instructor.
Recommended Corequisite(s):		
Poquirod		

Required Prerequisite(s) / Corequisite(s) (Updates only):

Registrar's Office Use Only - Required Prerequisite(s)/Corequisite(s):

And/Or	(Course/Test Code	Min Grade/Score	Academic Level)	Concurrency?	

Registration Restrictions (Updates only):

Registrar's Office Use Only - Registration Restrictions:

Field(s) of Study:

Class(es):

Level(s):

Include

Enrollment limited to students with a level of Non-Degree (SCRRLVL_ONLY_ND) Limited to graduate level students only. (SCRRLVL_ONLY_GR)

Degree(s):

Exclude

Non-Degree Undergraduate Degree students may not enroll. (SCRRDEG_NO_NDU)

School(s):

Catalog

Description:

Applies numerical methods to study of variety of physical systems, with emphasis on modeling and simulation. Develops numerical algorithms and simulation codes to gain understanding of mechanisms, processes in physical systems. Includes several projects drawn from such areas as atomic and molecular interactions, molecular dynamics, lattice dynamics, quantum systems, chaos, percolation, random walks, aggregation mechanisms of soft solids, nanomaterials, and nonlinear dynamics.

Justification:

The inclusion of "college physics" in the prerequisites is misleading, graduate students understanding that they need a BS in physics to take this course.

Does this course cover material which No crosses into another department?

Learning Outcomes:

Attach Syllabus

Additional Attachments

Specialized Course Categories:

Additional Comments:

Reviewer Comments