

Course Change Request

Date Submitted: 03/10/23 4:03 pm

Viewing: **CDS 411 : Modeling and Simulation II**

Last approved: 12/21/18 4:28 am

Last edit: 03/13/23 5:00 pm

Changes proposed by: blaisten

Catalog Pages
referencing this
course

[Computational and Data Sciences \(CDS\)](#)

[Department of Computational and Data Sciences](#)

Select modification type:

Simple

Substantial

In Workflow

1. CDS Chair
2. SC Curriculum Committee
3. SC Associate Dean
4. Assoc Provost- Undergraduate
5. Registrar-Courses
6. Banner

Approval Path

1. 03/10/23 3:59 pm
Jason Kinser
(jkinser): Rollback to Initiator
2. 03/13/23 5:01 pm
Jason Kinser
(jkinser): Approved for CDS Chair

History

1. Dec 21, 2018 by
Gregory Craft
(gcraft)

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

Yes ~~No~~

Requestor:

Name	Extension	Email
Jason Kinser	33785	jkinser@gmu.edu

Effective Term: Summer 2022
Subject Code: CDS - Computational and Data Sciences **Course Number:** 411
Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Modeling and Simulation II

Banner Title: Modeling and Simulation II

Will section titles vary by semester? No

Credits: 3

Schedule Type: Lecture

Hours of Lecture or Seminar per week: 3

Repeatable: May be only taken once for credit, limited to 3 attempts (N3) **Max Allowable Credits:** 9

Default Grade Mode: Undergraduate Regular

Recommended Prerequisite(s):

MATH **203**, ~~446~~, PHYS 262 or PHYS ~~245- 245, and a 200-~~ or higher-level **programming computational methods** course, or permission of instructor.

Recommended Corequisite(s):

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

CDS 230

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):****Degree(s):****School(s):****Catalog****Description:**

Covers the application of modeling and simulation methods to various scientific applications, including fluid dynamics, solid mechanics, materials science, molecular mechanics, and astrophysics. Provides an introduction to modeling and simulation software, as well as high-performance computing.

Justification:

What: change of existing suggested prerequisites

Why: students registering in the course do not have the math and programming expected skills

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

Learning Outcomes:**Attach Syllabus****Additional Attachments****Specialized Course Categories:****Additional Comments:****Reviewer Comments**

Jason Kinser (jkinser) (03/10/23 3:59 pm): Rollback: Include CDS 230 as require prereq