Course Change Request

Date Submitted: 05/10/19 2:13 pm

Viewing: CDS 130 : Computing for Scientists

Last approved: 10/31/18 5:20 am

Last edit: 05/10/19 2:13 pm

Changes proposed by: jbazaz

Catalog Pages referencing this course

Bioinformatics (BINF)
Biology (BIOL)
Civil and Infrastructure Engineering (CEIE)
Computational and Data Sciences (CDS)
Department of Biology

Select modification type:

~~Simple~~
Substantial

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

Yes

Requestor:

Name	Extension	Email
Jason Kinser	3785	jkinser@gmu.edu

Effective Term: Fall 2019

Subject Code: CDS - Computational and Data Sciences **Course Number:** 130

Bundled Courses:

Is this course replacing another course? **No**

Equivalent Courses:

Catalog Title: Computing for Scientists

Banner Title: Computing for Scientists

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): Passing score on the math placement test for MATH ~~110 or MATH~~ 113.

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. 05/10/19 2:21 pm Jason Kinser (jkinser): Approved for CDS Chair

History

1. Aug 29, 2017 by pchampan
2. Oct 31, 2018 by Pheng Xiong (pxiong)

Recommended Corequisite(s):

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):

Degree(s):

School(s):

Catalog Description: Covers use of computers to solve practical scientific problems. Topics include creating effective scientific presentations, analysis of experimental data, online literature, data/information ethics, scientific modeling, and communication/collaboration tools. Designed to equip students with the knowledge and confidence they need to use future hardware and software systems both as students and throughout their scientific careers.

Justification: Removing the recommended prerequisite of a passing score on the placement test for MATH 110 because that course does not require the math placement test.

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

Learning Outcomes:

Attach Syllabus

Additional Attachments

Specialized Course Categories: Mason Core

Select the Mason Core Requirement the course is proposing to fulfill:

Foundation Courses: Information Technology w/Ethics

Exploration Courses:

Integration Courses:

Information Technology and Computing

Course must meet the following learning outcomes:

1. Students will be able to use technology to locate, access, evaluate, and use information, and appropriately cite resources from digital/electronic media.

2. Students will understand the core IT concepts in a range of current and emerging technologies and learn to apply appropriate technologies to a range of tasks.
3. Students will understand many of the key ethical, legal and social issues related to information technology and how to interpret and comply with ethical principles, laws, regulations, and institutional policies.
4. Students will demonstrate the ability to communicate, create, and collaborate effectively using state-of-the-art information technologies in multiple modalities.

Additional Comments:

Reviewer Comments

Key: 1907