Course Change Request

Date Submitted: 09/29/23 10:40 am

Viewing: CSI 501 : Computational Science Programming ~~Introduction to Scientific Programming~~

Last approved: 05/06/21 5:00 am

Last edit: 09/29/23 10:40 am

Changes proposed by: blaisten

Catalog Pages referencing this course

Computational Science and Informatics (CSI)

Department of Computational and Data Sciences

Select modification type:

~~Simple~~

Substantial

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

Yes ~~No~~

Requestor:

Name	Extension	Email
Daniel Sponseller	35881	dsponsel@gmu.edu

Effective Term: Spring 2024

Subject Code: CSI - Computational Science & Informatics **Course Number:** 501

Bundled Courses:

In Workflow

1. **CDS Chair**
2. **SC Curriculum Committee**
3. SC Assistant Dean
4. Assoc Provost-Graduate
5. Registrar-Courses
6. Banner

Approval Path

1. 09/29/23 12:15 pm Jason Kinser (jkinser): Approved for CDS Chair

History

1. May 6, 2021 by Tory Sarro (vsarro)

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Computational Science Programming ~~Introduction to Scientific Programming~~

Banner Title: Computat. Science ~~Intro Scientific~~ Programming

Will section titles vary by semester? No

Credits: 3

Schedule Type: Lecture

Hours of Lecture or Seminar per week: 3

Repeatable: May only be taken once for credit (NR)
GRADUATE ONLY

Default Grade Mode: Graduate Regular

Recommended Prerequisite(s):
Permission of instructor.

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):

Include

Limited to students with a class of Senior Plus (SCRRCLS_ONLY_SP)

Limited to students with a class of Non Degree (SCRRCLS_ONLY_ND)

Limited to students with a class of Advanced to Candidacy. (SCRRCLS_ONLY_DC)

Limited to students with a class of Graduate. (SCRRCLS_ONLY_GR)

Limited to students with a class of Junior Plus (SCRRCLS_ONLY_JP)

Level(s):

Include

Enrollment limited to students with a level of Non-Degree (SCRRLVL_ONLY_ND)

Limited to undergraduate level students. (SCRRLVL_ONLY_UG)

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:

Introduces and reviews programming in C and FORTRAN with emphasis on the aspects used in the computational and data sciences. Conducted through a combination of both lecture and interactive computer laboratory.

Justification:

What: Course tile is changed to brake the tie with the CDS 251 existing course.

Why: CSI 501 course title was the same as CDS 251 since the two courses were consistently cross-listed over the years. Now the two courses are taught separately.

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

Learning Outcomes:

By the end of the course, each student will be able to:

• Introduce readily available tools using in scientifc programming.

• Explore algorithms and analyze their performance.

• Survey algorithms that solve basic mathematical problems.

• Introduce methods of simulation to explore scientifc problems.

Will this course be scheduled as a cross-level cross listed section? No

Attach Syllabus

CSI_501_Syllabus_fall23.pdf

Additional Attachments

Specialized Course Categories:

Additional Comments:

The modification affects the Computational Science MS, which is not listed automatically by CIM in affected programs listed above

Reviewer Comments

Key: 3266