

Program Change Request

Date Submitted: 02/23/24 4:05 pm

Viewing: **SC-CERG-DSCI : Data Science Graduate Certificate**

Last approved: 02/23/21 4:47 pm

Last edit: 03/01/24 9:40 am

Changes proposed by: jbazaz

Catalog Pages Using this Program

[Data Science Graduate Certificate](#)

No Longer Anticipated closure date (i.e., calendar year) 2024-2025

Rationale for

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

No

Requester

Effective Catalog: 2024-2025

Program Level: Graduate

Program Type: Certificate

Degree Type: Graduate Certificate

Title: Data Science Graduate Certificate

In Workflow

- 1. CDS Chair
- 2. SC Curriculum Committee
- 3. SC Assistant Dean
- 4. Assoc Provost- Graduate
- 5. Registrar-Programs

Approval Path

- 1. 02/26/24 1:53 pm Jason Kinser (jkinser): Approved for CDS Chair

History

- 1. Oct 23, 2017 by clmig-jwehrheim
- 2. Feb 14, 2018 by rzachari
- 3. Nov 8, 2018 by rzachari
- 4. Feb 23, 2021 by jriemen

Approval Criteria

- 1. What was the process used within your academic
- 2. Who was involved in approving the badge?
- 3. What evidence was used to identify need/demand
- 4. Please attest to the following statements regarding your badge
 - a. Have you ensured there are no other existing badges
 - b. Has CPE confirmed the proposed badge does not
 - c. Has the instructor(s) for this badge experience been
 - d. Is there a contact hour minimum?
 - e. Is an assessment required?
 - f. Does this badge provide a benefit for current or
- 5. Is this badge co-sponsored with another organization, association, or unit? (If you would like an
 - a. What is the organization, program, or department

Earning Criteria

- Course:
- Badge:
- Participant:
- Payment:
- Portfolio:
- Presentation:
- Assessment:
- Credential:
- Education
- Other:
- Project:
- Professional
- Schedule/Registration:
- Volunteer:

Skills Tag

Skills Tag

Badge Attributes

Please select one from each category:

- Achievement Type:
- Mastery Level:
- Time Commitment:
- Cost:
- Industry Standards:
- Recommendations:

Issuance information and Pricing

Pricing: See <https://cpe.amu.edu/digitalbadgespricing/> for more information.

Estimated Number of Badges Expected to be Issued:

Notes:

- All badge requests will be routed to CPE for review and approval. Please allow 7 business days for processing. A draft badge template and design will be provided
- A Mason Digital Credentials Advisory Group may be developed to review badge development on an annual basis to determine which badges are underutilized and may need to be archived. Earners for any archived badges will always retain
- To view examples of all active badges at Mason, please see:

Banner Title: CERG Data Science

Is this a retitling of an existing program?

Existing Program

Registrar/OAPI Use Only – SCHEV Status Approved

Registrar’s Office Use Only – Program Start Term Spring 2019

Registrar/OAPI Use Only – SCHEV [Approve CERG Data Science 100118.pdf](#)

Letter

**Registrar/OAPI Use
Only – SACSCOC
Status**

Concentration(s):

INTO Major(s):

**Registrar/IRR Use
Only –
Concentration CIP
Code**

College/School: College of Science

**Department /
Academic Unit:** Computational & Data Sciences

**Jointly Owned
Program?** No

Participating

Participating

Justification What: Referring applicants to central admissions language and removing extraneous wording.
Why: To make the program more adaptable to changes in university policies.

Catalog Published Information

**Total Credits
Required:** Total credits: 15

Registrar's Office Use Only - Program Code:
SC-CERG-DSCI

**Registrar/IRR Use
Only – Program CIP
Code**

**Admission
Requirements:**

Admissions

University-wide admissions policies can be found in the Graduate Admissions Policies section of this catalog. International students and students having earned international degrees should also refer to Admission of International Students for additional requirements.

Eligibility **Admissions**

Applicants to ~~all graduate programs at George Mason University must meet the admission standards and application requirements for graduate study as specified in the Graduate Admission Policies section of this catalog.~~ Applicants to this certificate should have an academic background in science, engineering, mathematics, or computer science. They should

have an undergraduate degree from an institution of higher education accredited by a Mason-recognized U.S. institutional accrediting agency or international equivalent with a GPA of at least 3.00 in their last 60 credits of study. In addition, applicants should have facility in using a high-level computer programming language.

Application Requirements

To apply for this certificate, ~~apply~~, prospective students should submit complete the George Mason University Admissions Application and its required supplemental documentation. ~~Application, supply two copies of official transcripts from each college and graduate institution attended, and a current résumé.~~

The GRE is not required for admission into this certificate.

~~TOEFL scores are required for all international applicants.~~

**Program-Specific
Policies:**

Policies

For policies governing all graduate certificates, see ~~degrees, see~~ AP.6 Graduate Policies.

Transferring Previous Graduate Credit into this Certificate

Previously earned and relevant graduate credits may be eligible for transfer into this certificate; details can be found in the Credit by Exam or Transfer section of this catalog.

Degree Requirements:

This certificate may be pursued on a full-or part-time basis.

Students should refer to the Admissions & Policies tab for specific policies related to this certificate, program.

Tools Courses

<u>CSI 500</u> Computational Science Tools	3
<u>CSI 501</u> Computational Science Programming	3
<u>CDS 501</u> Scientific Information and Data Visualization	3
<u>CDS 502</u> Introduction to Scientific Data and Databases	3
Total Credits	12

Applications Courses

The applications courses provide content from a specific scientific domain and demonstrate the utilization of techniques within its context.

Select one from the following: 3

CSI 695 Scientific Databases

CSI 777 Principles of Knowledge Mining

CSS 692 Social Network Analysis

Total Credits 3

**Retroactive
Requirements
Updates:**

Plan of Study:

**Honors
Information:**

**Accelerated
Description/Dual
Degree
Description:**

**INTO-Mason
Requirements:**

**College
Requirements &
Policies:**

Department /
Academic Unit
Requirements &
Policies:

Program Outcomes

Additional Program Information

This information is required by the Office of Accreditation and Program Integrity.

Courses offered via
distance (if
applicable):

Indicate whether
students are able
to pursue on a:

Both Full and Part-time basis

What is the
primary delivery
format for the
program?

Face-to-Face Only

Does any portion of this program occur off-campus?

No

Off-campus details:

Are you working with a vendor / other collaborators to offer your program?

No

Please explain:

Related
Departments

Could this program prepare students for any type of professional licensure, in
Virginia or elsewhere?

No

Please explain:

Are you adding or removing a licensure component?

No

Please explain:

Additional SCHEV & SACSCOC Information

Is the content of the new program closely related to that of an existing approved program at the same instructional level (i.e., baccalaureate, master's, doctoral)?

Which existing approved program(s)?

Is this new program considered to be "advancing the degree level of a currently approved program" (i.e. existing content is at lower degree level, new content is at the higher degree level)?

Which existing approved program(s)?

Is this new program considered to be "lowering the degree level of a currently approved program" (i.e. existing content is at higher degree level, new content is at the lower degree level)?

Which existing approved program(s)?

Is this a re-opening of a program that was closed to admission within the last five years?

Date of Program Closure

What are the methods of delivery for the program?

Does this program include a course/credit-based competency-based education delivery option?

Is this change a simple retitling of an existing program, with no other changes, to any existing program content, curriculum requirements, etc?

No

Does this change represent a repackaging of content in an existing approved degree/certificate program at the same instructional level (i.e., baccalaureate, master's, or doctoral)?

No

Which existing approved program(s)?

Percentage of total credits containing new course content. ("New course content" is defined by SACSCOC as content that is not currently included in an existing approved degree/certificate program at the same instructional level. Do not exclude gen ed credits in calculations for undergraduate programs.)

0%-24%

Does this change include the addition of a distance education or face-to-face method of delivery for this program?

No

What is the new method of delivery?

Does this change include the addition of a course/credit-based competency-based education delivery option?

No

Will any additional equipment/facilities be needed?

No

Description of institutional impact:

Will any additional faculty be required?

No

Description of institutional impact:

Will any additional financial resources be needed?

No

Description of institutional impact:

Additional library/learning resources needed?

No

Description of institutional impact:

OAPI Use Only – Determination of SACSCOC Impact

Comments or Notes

Green Leaf Program Designation

Is this a Green Leaf program? No

Green Leaf Designation

Sustainability-focused academic programs require at least one green leaf course. Either that course is itself sustainability-focused or else the program requires a set of sustainability-related courses with aggregated substance equivalent to a sustainability focused course.

Relationship to Existing Courses

Relationship to Existing Programs

List sustainability-focused courses currently required in the degree

Sustainability-related academic programs either require at least one sustainability-related course or else offer any green leaf course as an option or elective *

List sustainability-
related courses
currently required
in the degree

Does this program cover material which crosses into another department?

No

Impacted
Departments

Additional
Attachments

SCHEV Proposal
Executive Summary

Reviewer
Comments

Additional
Comments

Is this course required of all students in this degree program?

[%wi_required.eshtml%](#)

Attached
Document

[%attach_document.eshtml%](#)

Key: 23