

# Program Change Request

Date Submitted: 02/23/24 3:58 pm

Viewing: **SC-CERG-CMB : Cell and Molecular Biology Graduate Certificate**

Last approved: 09/09/22 1:27 pm

Last edit: 03/01/24 10:39 am

Changes proposed by: jbazaz

## Catalog Pages Using this Program

[Cell and Molecular Biology Graduate Certificate](#)

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

No

**Effective Catalog:** 2024-2025

**Program Level:** Graduate

**Program Type:** Certificate

**Degree Type:** Graduate Certificate

### Title:

Cell and Molecular Biology Graduate Certificate

**Banner Title:** Cell and Molecular Biology

**Registrar/OAPI Use Only – SCHEV Status** Approved

**Registrar's Office Use Only – Program Start Term** Fall 2022

**Registrar/OAPI Use Only – SCHEV Letter** [Cell and Molecular Biology Graduate Certificate Approval.pdf](#)

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

## In Workflow

1. SSB CC
2. SSB Program Chair
3. SC Curriculum Committee
4. SC Assistant Dean
5. Assoc Provost-Graduate
6. Registrar-Programs

## Approval Path

1. 03/01/24 10:42 am  
Ramin Hakami (rhakami):  
Approved for SSB CC
2. 03/22/24 11:40 am  
Iosif Vaisman (ivaism):  
Approved for SSB Program Chair

## History

1. Jun 30, 2022 by Jennifer Bazaz Gettys (jbazaz)
2. Sep 9, 2022 by Jennifer Bazaz Gettys (jbazaz)

**Concentration(s):**

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

**College/School:** College of Science

**Department /  
Academic Unit:** School of Systems Biology

**Jointly Owned  
Program?** No

**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

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

**Registrar's Office Use Only - Program Code:**

SC-CERG-CMB

**Registrar/IRR Use  
Only – Program CIP  
Code** 26.0406 - Cell/Cellular and Molecular Biology.

**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.](#)

**~~To apply for this program, please complete the George Mason University Admissions Application.~~** **Eligibility**

Applicants must possess an earned baccalaureate degree from an institution in a biological field, a chemical field, a closely related field of higher education accredited by a Mason-recognized U.S. study, or be enrolled in the Enlisted to Medical Degree Preparatory Program (EDMP2): institutional accrediting agency or international equivalent in a biological field, a chemical field, a closely related field of study, or be enrolled in the Enlisted to Medical Degree Preparatory Program (EDMP2). Additionally, applicants should hold an undergraduate GPA of 3.00.

## Application Requirements

To apply ~~be considered~~ for this certificate, prospective students should ~~admission, applicants must~~ submit the George Mason University Admissions Application and its required supplemental documentation, ~~Application, all undergraduate transcript(s)~~, three letters of recommendation, and a statement of interest.

The GRE is not required for admission into this certificate.

Program-Specific  
Policies:

## Policies

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

Students may not enroll initially in any College of Science master's or doctoral program and later transfer into this certificate program.

## 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.

## ~~For policies governing all graduate programs, see AP.6 Graduate Policies.~~ Premium Tuition

This certificate charges students a differential tuition rate of \$100 per credit hour, which is added to the standard graduate tuition rate (regardless of in- ~~in~~ or out-of-state ~~out of state~~ status).

Degree Requirements:

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

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

## Core Courses

<u>BIOL 566</u> Cancer Genomics	3
<u>BIOL 682</u> Advanced Eukaryotic Cell Biology	3
<u>BIOL 691</u> Current Topics in Biology (when the topic is "Creativity and Innovation" )	3
Total Credits	9

## Restricted Electives

Select at least 6 credits from the following courses. All restricted electives must be approved by an advisor.

BIOL 506 Selected Topics in Microbiology (when the topic is "Medical Microbiology")

BIOL 516 Mammalian Neurobiology

- [BIOL 553](#) Advanced Topics in Immunology  
[BIOL 562](#) Personalized Medicine  
[BIOL 568](#) Advanced Topics in Molecular Genetics  
[BIOL 572](#) Human Genetics  
[BIOL 583](#) General Biochemistry  
[BIOL 666](#) Human Genetics Concepts for Health Care  
[BIOL 667](#) Signal Transduction in Cancer  
[BINF 630](#) Bioinformatics Methods  
[BINF 633](#) Molecular Biotechnology

Total Credits

6

**Retroactive  
Requirements  
Updates:**

**Plan of Study:**

**Program Outcomes**

## Additional Program Information

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*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

**Are you working with a vendor / other collaborators to offer your program?**  
No

**Related  
Departments**

**Could this program prepare students for any type of professional licensure, in  
Virginia or elsewhere?**  
No

**Are you adding or removing a licensure component?**  
No

## Additional SCHEV & SACSCOC Information

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**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

**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

**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

**Will any additional faculty be required?**

No

**Will any additional financial resources be needed?**

No

**Additional library/learning resources needed?**

No

## OAPI Use Only – Determination of SACSCOC Impact

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**Comments or Notes**

No new content. Not a sub change.

**Green Leaf Program Designation**

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Is this a Green Leaf program? No

Does this program cover material which crosses into another department?

No

**Additional Attachments**

[Human Biology\\_CERG 020422.pdf](#)  
[GMU Grad cert Cell Molecular Biology was humanbiology.052722Final.pdf](#)

**Reviewer Comments**

**Additional Comments**

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

%wi\_required.eshtml%

Key: 970