

Program Change Request

Date Submitted: 07/08/22 3:34 pm

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

Last approved: 06/30/22 12:15 pm

Last edit: 07/15/22 3:47 pm

Changes proposed by: jbazaz

In Workflow

1. **SSB Program Chair**
2. **SC Curriculum Committee**
3. SC Associate Dean
4. Assoc Provost-Graduate
5. Registrar-Programs

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

No

Effective Catalog: 2022-2023

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

Concentration(s):

Registrar/IRR Use Only – Concentration CIP Code

College/School: College of Science

Approval Path

1. 07/13/22 12:44 am
Iosif Vaisman (ivaisman):
Approved for SSB Program Chair

History

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

Department / Academic Unit: School of Systems Biology

Jointly Owned Program? No

Justification

This certificate was approved in February 2022 with the title "Human Biology". However, SCHEV's subsequent review brought about a title change to "Cell and Molecular Biology".

SCHEV's review also brought about a change in the curriculum, whereby:

- In the core, a range of course options were removed and a set core was established.
- Some of the courses in the restricted electives list were added (BIOL 516, 562, 572, 666, 667) and some were removed (i.e. BIOL 508, 566, 575, 669, 682, 685, 691, 693, 695, BIOS 701, 741).

Also adding: "Students should refer to the Admissions & Policies tab for specific policies related to this program." Will add the hyperlink once its published.

Catalog Published Information

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.

To apply for this program, please complete the [George Mason University Admissions Application](#).

Applicants must possess an earned baccalaureate degree 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.

To be considered for admission, applicants must submit the [George Mason University Admissions Application](#), all undergraduate transcript(s), three letters of recommendation, and a statement of interest.

Program-Specific Policies:

Policies

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

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 or 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 specific policies related to this program.

Core Courses

BIOL 566	Cancer Genomics	3
BIOL 682	Advanced Eukaryotic Cell Biology	3
BIOL 691	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. 6

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

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

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

Comments or Notes

No new content. Not a sub change.

Green Leaf Program Designation

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