

# Program Change Request

Date Submitted: 03/01/24 10:20 am

Viewing: **SC-MS-BCB : Bioinformatics and Computational Biology, MS**

Last approved: 05/10/22 3:21 pm

Last edit: 03/01/24 10:20 am

Changes proposed by: jbazaz

## Catalog Pages Using this Program

[Bioinformatics and Computational Biology, MS](#)

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

No

**Effective Catalog:** 2024-2025

**Program Level:** Graduate

**Program Type:** Master's

**Degree Type:** Master of Science

### Title:

Bioinformatics and Computational Biology, MS

**Banner Title:** Bioinformatics & Compu Biol MS

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

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

**Registrar/OAPI Use  
Only – SCHEV  
Letter**

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

## History

1. Nov 16, 2017 by  
clmig-jwehrheim
2. Feb 23, 2021 by  
jriemen
3. May 10, 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.

**Total Credits  
Required:** Total credits: 31

**Registrar's Office Use Only - Program Code:**  
SC-MS-BCB

**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.](#)

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

Applicants should have a bachelor's degree in biology, computer science, or a related [field from an institution field, with a GPA of higher education accredited by a Mason-recognized U.S. at least 3.00 in their last 60 credits of study.](#) [institutional accrediting agency or international equivalent with a GPA of at least 3.00 in their last 60 credits of study.](#)

Applicants should have taken courses in biology, computer science, calculus, physical chemistry, and statistics. Students with deficiencies in one or more of these areas may be required to take additional courses from the undergraduate curriculum.

### Application Requirements

To [apply for this program](#), ~~apply~~; prospective students should [submit the complete a George Mason University Admissions Application and its required supplemental documentation](#), ~~supply~~ a [goals statement](#), ~~copy of official transcripts from each college~~ and [two letters of recommendation](#), ~~graduate institution attended, a current résumé, and an expanded goals statement.~~ Applicants should also include ~~two letters of recommendation~~. TOEFL or IELTS scores are required for all ~~international applicants~~. The GRE is not required for admission into this program.

**Program-Specific Policies:**

## Policies

For policies governing all graduate programs, see [AP.6 Graduate Policies](#).

### [Transferring Previous Graduate Credit into this Program](#)

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

**Degree Requirements:**

Students should refer to the [Admissions & Policies](#) tab for specific policies related to this program.

### Bioinformatics Core Courses

<a href="#">BINF 630</a> Bioinformatics Methods	3
<a href="#">BINF 631</a> Molecular Cell Biology for Bioinformatics	3
<a href="#">BINF 634</a> Bioinformatics Programming	3
<a href="#">BINF 701</a> Systems Biology	3
Total Credits	12

### Advanced Bioinformatics

Advanced bioinformatics courses numbered [BINF 730](#) and above

Total Credits	3
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### Bioinformatics Seminar

[BINF 704](#) Colloquium in Bioinformatics

Total Credits	1
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### Research Project or Thesis and Electives

Select either a research project or a master's thesis and electives courses.

#### Research Project

<a href="#">BINF 798</a>	Research Project	3
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Select 12 credits of elective in bioinformatics and computational biology, biology and biotechnology, or computational sciences, as approved by the advisor 12

Total Credits 15

## Thesis

[BINF 799](#) Master's Thesis 6

Select 9 credits of electives in bioinformatics and computational biology, biology and biotechnology, or computational sciences, as approved by the advisor 9

Total Credits 15

### 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):

What is the primary delivery format for the program? Both Face-to-Face and Distance

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

**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**

**SCHEV Proposal**

**Executive Summary**

**Reviewer Comments**

**Additional Comments**

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

%wi\_required.eshtml%

Key: 416