Program Change Request

Date Submitted: 03/04/22 12:25 pm

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

Last approved: 02/23/21 4:33 pm

Last edit: 03/04/22 12:36 pm

Changes proposed by: jbazaz

Catalog Pages Using this Program

Bioinformatics and Computational Biology, MS

In Workflow

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

History

1. Nov 16, 2017 by clmig-jwehrheim
2. Feb 23, 2021 by Johanna Riemen (jriemen)

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

Yes

Requestor:

Name	Extension	Email
Diane St. Germain	4263	dstgerma

Effective Catalog: 2022-2023

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

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: Removing the requirement for two official transcripts. Reducing the letters of recommendation to two. Removing the GRE requirement. Adding IELTS option.

Why: These changes will allow us to ease the path into the program while still receiving enough information to make an informed admission decision.

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. 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, 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, prospective students should complete a George Mason University Admissions Application, supply **a copy** ~~two copies~~ of official transcripts from each college and graduate institution attended, **a** ~~a~~ current résumé, and an expanded goals statement. Applicants should also include **two** ~~three~~ letters of **recommendation.** ~~recommendation and official scores obtained on the GRE general exam. The GRE requirement will be waived if the student holds a master's degree from an institution of higher education accredited by a Mason-recognizedU.S.institutional accrediting agency or internationalequivalent.~~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.

Degree Requirements:

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

Bioinformatics Core Courses

BINF 630	Bioinformatics Methods	3
BINF 631	Molecular Cell Biology for Bioinformatics	3
BINF 634	Bioinformatics Programming	3
BINF 701	Systems Biology	3
Total Credits		12

Advanced Bioinformatics

Advanced bioinformatics courses numbered BINF 730 and above	3
Total Credits	3

Bioinformatics Seminar

BINF 704	Colloquium in Bioinformatics	1
Total Credits		1

Research Project or Thesis and Electives

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

Research Project

BINF 798	Research Project	3
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

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

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

Green Leaf Program Designation

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.eschtml%

Key: 416