

Program Change Request

Date Submitted: 03/07/25 1:34 pm

Viewing: **SC-MS-BNFM : Bioinformatics**

Management, MS

Last approved: 04/29/24 9:26 am

Last edit: 03/07/25 1:34 pm

Changes proposed by: jbazaz

Catalog Pages

Using this Program

[Bioinformatics Management, MS](#)

Anticipated:

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

No

Effective Catalog: 2025-2026

Program Level: Graduate

Program Type: Master's

Degree Type: Master of Science

Title:

Bioinformatics Management, MS

Banner Title: Bioinformatics Management MS

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. 03/07/25 1:43 pm
Ramin Hakami (rhakami):
Approved for SSB CC
2. 02/26/26 10:23 am
Iosif Vaisman (ivaisman):
Approved for SSB Program Chair

History

1. Nov 16, 2017 by clmig-jwehrheim
2. Jan 23, 2019 by Jennifer Bazaz Gettys (jbazaz)
3. Mar 15, 2019 by Tory Sarro (vsarro)
4. Feb 23, 2021 by jriemen
5. May 2, 2022 by Jennifer Bazaz Gettys (jbazaz)

6. Apr 29, 2024 by
Jennifer Bazaz
Gettys (jbazaz)

**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

**Is there an
embedded degree
as part of a
program?**

Justification

What: Replacing an inactivated course, HAP 713, with HI 613.

Why: To keep the curriculum updated.

**Total Credits
Required:** Total credits: 30

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

**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

Applicants should have a bachelor's degree in biology, computer science, or a related field 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. Applicants should have taken courses in molecular 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, prospective students should submit the [George Mason University Admissions Application](#) and its required supplemental documentation, a goals statement, and two letters of recommendation. 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

Foundational courses in modern biotechnology, tools and methods for bioinformatics analysis, and methods for creating customized bioinformatics tools.

BINF 530	Introduction to Bioinformatics Methods	3
or BINF 630	Bioinformatics Methods	
BINF 531	Molecular Cell Biology for Bioinformatics	3
or BINF 631	Molecular Cell Biology for Bioinformatics	
BINF 634	Bioinformatics Programming	3
BINF 730	Biological Sequence and Genome Analysis	3
Select one from the following:		3

BINF 633	Molecular Biotechnology	
BINF 650	Introduction to Bioinformatics Database Design	
BINF 702	Biological Data Analysis	
Total Credits		15

Management Core Courses

Foundational courses in management theory related directly to the management of scientific programs and personnel.

Select 12 credits from the following courses:		12
COS 500	Professional Preparation for STEM Disciplines	
COS 600	Multidisciplinary Problem Solving and Leadership	
EVPP 638	Corporate Environmental Management and Policy	
GBUS 613	Financial Reporting and Decision Making	
GBUS 623	Marketing Management	
GBUS 643	Managerial Finance	
GBUS 653	Organizational Behavior	
GCH 691	Project Management in Public Health	
HAP 713	Project Management in Health Information Technology	
HI 613	<u>Project Management in Health Information Technology</u>	
MBA 712	Project Management	
SWE 625	Software Project Management	
Total Credits		12

Capstone Research Project

Focusing on bioinformatics management issues and techniques.

BINF 798	Research Project	3
Total Credits		3

**Retroactive
Requirements
Updates:**

Plan of Study:

Honors
Information:

Accelerated
Description/Du
Degree
INTO-Mason
Requirements:

College
Requirements &
Policies:
Department /
Academic Unit
Requirements &
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

to be content -
to be content -
to be content -
to be content -

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

Have you reached out to the Libraries to determine whether there are adequate resources to support your program? If not, please email Meg Meiman, Associate University Librarian for Learning, Research, and Engagement at mmeiman2@gmu.edu.

OAPI Use Only – Determination of SACSCOC Impact

Comments or Notes

Green Leaf Program Designation

Is this a Green Leaf program? No

5/1/2025 10:00 AM
List sustainability
List sustainability

Does this program cover material which crosses into another department?

Yes

Impacted
Departments

Department
School of Business
Health Administration & Policy
Computer Science

Additional
Attachments

SCHEV Proposal

Executive Summary

Reviewer
Comments

Additional
Comments

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

%wi_required.eshtml%