

Program Change Request

Date Submitted: 02/23/24 3:55 pm

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

Management, MS

Last approved: 05/02/22 2:33 pm

Last edit: 03/01/24 10:22 am

Changes proposed by: jbazaz

Catalog Pages Using this Program

[Bioinformatics Management, 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 Management, MS

Banner Title: Bioinformatics Management 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 10:41 am
Ramin Hakami
(rhakami):
Approved for SSB
CC
2. 03/22/24 11:44 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)

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: 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.](#)

~~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 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](#), ~~apply~~; prospective students should submit the [George Mason University Admissions Application and its required supplemental documentation](#), ~~supply official transcripts from each college and graduate institution attended~~, a ~~current résumé~~, and an ~~expanded~~ goals [statement, and two letters of recommendation](#). ~~statement.~~

~~Applicants should also include two letters of recommendation. TOEFL or IELTS scores are required of 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

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

[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 Project3

Total Credits

3

**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?

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%

Key: 417