Program Change Request

Date Submitted: 04/20/18 4:40 pm

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

Last approved: 11/16/17 5:21 pm

Last edit: 04/20/18 4:40 pm

Changes proposed by: jbazaz

Catalog Pages Using this Program: Bioinformatics Management, MS

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

Yes

Requestor:

Name	Extension	Email
Diane St. Germain	4263	dstgerma@gmu.edu

Effective Catalog: 2019-2020

Program Level: Graduate

Program Type: Master's

Degree Type: Master of Science

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:

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: **Three (3) courses to be added to the Bioinformatics Core course selection list; one (1) course removed from the Bioinformatics Core course list since it is no longer offered; three (3) courses removed from the Management Core courses list since two are no longer offered and one is restricted to School of Business MBA cohorts; more Management Core courses added to allow a greater choice in the Management list.**

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:

In Workflow

1. **SSB Program Chair**
2. **SC Curriculum Committee**
3. SC Associate Dean
4. BU Impacted Unit Approver
5. SC CAT Editor
6. Assoc Provost-Graduate
7. Registrar-Programs

Approval Path

1. 04/23/18 7:50 pm Iosif Vaisman (ivaisman): Approved for SSB Program Chair

History

1. Nov 16, 2017 by clmig-jwehrheim

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 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, prospective students should submit the George Mason University Admissions Application, supply two copies of official transcripts from each college and graduate institution attended, a current résumé, and an expanded goals statement. Applicants should also include three letters of 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 a U.S. institution. TOEFL or IELTS scores are required of all international applicants.

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

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

Course List

Code	Title	Credits
~~BINF 630~~	~~Bioinformatics Methods~~	~~3~~
~~BINF 631~~	~~Molecular Cell Biology for Bioinformatics~~	~~3~~
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 636~~	~~Microarray Methodology and Analysis~~	
BINF 702	**Biological Data Analysis**	
BINF 650	Introduction to Bioinformatics Database Design	
Total Credits		15

Management Core Courses

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

Course List

Code	Title	Credits
~~MBA 638~~	~~Operations Management~~	~~3~~
GBUS 540	**Analysis of Financial Decisions**	**3**
MBA 712	Project Management	3
~~TECM 615~~	~~Decision Making Using Accounting and Financial Data~~	~~3~~
~~TECM 640~~	~~Management of Consulting and Technical Professionals~~	~~3~~
Select 6 additional credits from the following:		**6**
GBUS 550	**Strategic Thinking**	
MBA 725	**Leadership**	
or GBUS 551	**Leadership**	
TECM 611	**Leadership and Change Management**	
TECM 614	**Financial and Cost Accounting**	
TECM 620	**Economics of Technology Management**	
TECM 635	**Decision Models for Technology Management**	
TECM 641	**Negotiation and Conflict Management**	
TECM 643	**Managerial Finance**	

Code	Title	Credits
Total Credits		12

Capstone Research Project

Focusing on bioinformatics management issues and techniques.

Course List

Code	Title	Credits
BINF 798	Research Project	3
Total Credits		3

Plan of Study:

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? 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

Are you changing the total number of credits required for this program?

Are you changing the delivery format in any way (e.g adding an online option)?

Are you adding/removing a licensure option which was approved by SCHEV?

Will any portion of this program be offered at an off-campus location?

Are you adding significant new content areas to the program?

Will this program change affect any specialized accreditation?

Green Leaf Program Designation

Is this a Green Leaf program? No

Does this program cover material which crosses into another department?

Yes ~~No~~

Impacted Departments

Department
School of Business

Additional Attachments	MS BNFM.pdf
SCHEV Proposal	
Executive Summary	
Reviewer Comments	
Additional Comments	

Key: 417