# **Program Change Request**

Date Submitted: 05/03/22 12:33 pm

# Viewing: SC-MS-BIOL : Biology, MS

### Last approved: 05/02/22 2:35 pm

### Last edit: 05/04/22 1:54 pm

Changes proposed by: jbazaz

**Catalog Pages Using this Program**  Biology, MS

No Longer **Anticipated closure** 

Dationals for

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

Yes

**Requestor:** 

### In Workflow

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

### **Approval Path**

1. 07/13/22 12:44 am losif Vaisman (ivaisman): Approved for SSB **Program Chair** 

### History

- 1. Nov 16, 2017 by clmig-jwehrheim
- 2. Mar 15, 2018 by rzachari
- 3. Sep 30, 2019 by Jennifer Bazaz Gettys (jbazaz)
- 4. Feb 5, 2020 by Jennifer Bazaz Gettys (jbazaz)
- 5. Aug 4, 2020 by Jennifer Bazaz Gettys (jbazaz)
- 6. Oct 30, 2020 by Tory Sarro (vsarro)
- 7. Jan 29, 2021 by Jennifer Bazaz Gettys (jbazaz)
- 8. Feb 23, 2021 by iriemen

- 9. Mar 7, 2021 by jriemen
- 10. Feb 8, 2022 by Jennifer Bazaz Gettys (jbazaz)
- 11. May 2, 2022 by Jennifer Bazaz Gettys (jbazaz)

INdi	ne	Extension	Email
Ancha Baranova		571-334-1145	abaranov@gmu.edu
Effective Catalog:	2022-2023		
Program Level:	Graduate		
Program Type:	Master's		
Degree Type:	Master of Scie	ence	
Title: Biology, MS			
1 What was the pro 2 What outdonce w 2 Have you ensured			
Has the instructor	d the propos		
f Does this hadge no 5. Is this badge co-s			
a. What is the organ	ization. program	n. or depa	
Earning Critoria			
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Daumanti			
Dortfolio			
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Education			
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<b>Badge Attributes</b>			
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Achievement Type			
Mastary Laval			
Time Commitment			
o .			
Cost:			
Cost: Industry Standards: Recommendations:			

Estimated Number of Radges Expected to be Issued:

All hades assured will be assisted to CDF for assistant and ensured. Discover,

• A Mason Digital Credentials Advisory Group may be developed to review bac

### Banner Title: Biology, MS

Is this a retitling of an existing program? Existing Program

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

Registrar's Office Use Only – Program Start Term

Registrar/OAPI Use Only – SCHEV Letter

Registrar/OAPI Use Only – SACSCOC Status

#### **Concentration(s):**

	Associated Concentrations	Registrar's Office Use Only: Concentration Code
1	Evolutionary Biology	EB
2	Microbiology and Infectious Disease	MID
3	Molecular Biology	МОВ
4	Neuroscience	NEUR
5	Nutrition Genetics and Nutraceuticals	NGN
6	Translational and Clinical Research	TCR

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Registrar/IRR Use Only – Concentration CIP Code	
College/School:	College of Science
Department / Academic Unit:	School of Systems Biology
Jointly Owned Program?	No

8/15/22, 12:46 PM	SC-MS-BIOL: Biology, MS
Participating	
Participating	
Justification	What: Adding additional course options for the Microbiology core, seminar, and evolution requirements. Why: To ease student advising and degree audits, these courses are often written-in.

### **Catalog Published Information**

Total Credits Total credits: 30 Required:

**Registrar's Office Use Only - Program Code:** 

SC-MS-BIOL

Registrar/IRR Use Only – Program CIP Code

Admission Requirements:

# Admissions

University-wide admissions policies can be found in the <u>Graduate Admissions Policies</u> section of this catalog. To apply for this program, please complete the <u>George Mason University Admissions Application</u>.

While each applicant's qualifications are reviewed as a whole, the following are required: Applicants to the program must have a bachelor's degree in biology or other relevant fields from an institution of higher education accredited by a Mason-recognized U.S. institutional accrediting agency or international equivalent. Additionally, all MS concentrations require a GPA of 3.00 in biology coursework or in the last 60 credits of undergraduate study.

Prospective students should supply a copy of official transcripts from each college and 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.

Previous research experience or relevant employment is a plus. Admission is contingent on acceptance by a faculty research advisor.

The GRE is not required for admission into this program.

# **Evolutionary Biology (EB) Concentration**

Students who choose the Evolutionary Biology concentration must also submit a personal statement/statement of interest consistent with at least one faculty member's research program.

# Microbiology and Infectious Disease (MID) Concentration

Students who choose the Microbiology and Infectious Disease concentration must have a lecture and lab course in microbiology and a lecture course in biochemistry.

Program-Specific Policies:

# Policies

For policies governing all graduate programs, see AP.6 Graduate Policies.

#### **Degree Requirements:**

Students should refer to the <u>Admissions & Policies</u> tab for specific policies related to this program. Candidates for the Biology, MS must complete the Core Courses and may choose one concentration or the MS without concentration requirements, detailed below, for a total of 30 credits (minimum).

## **Program of Study**

The faculty advisor and the student work together to develop a program of study that best fits the student's background and interests. The student must submit a program of study to the program director for approval within the first 12 credits of coursework. By the end of the second semester of coursework, students will form a graduate committee made up of three faculty members. At least two committee members must be full-time faculty in the <u>School of Systems Biology</u>. Students must complete all core courses and choose one concentration option:

### **Core Courses**

Cell and Molecular	Requirement	3
<u>BIOL 682</u>	Advanced Eukaryotic Cell Biology	
or <u>BIOS 744</u>	Molecular Genetics	
Professional Metho	ds Requirement	4
<u>BIOL 690</u>	Introduction to Graduate Studies in Biology	
Choose one from th	ne following:	
<u>BIOL 689</u>	Interdisciplinary Tools in the Biosciences	
<u>BIOL 691</u>	Current Topics in Biology 1	
or <u>BIOS 702</u>	Research Methods	
<u>NEUR 702</u>	Research Methods	
Seminar Requireme	nt	3
Select a total of 3 c	redits from the following courses:	
<b>BINF 704</b>	Colloquium in Bioinformatics	
<u>BIOL 692</u>	Seminar in Biology (may be repeated) 2	
<u>BIOL 695</u>	Seminar in Molecular, Microbial, and Cellular Biology (may be repeated) 3	
<b>BIOS 704</b>	Topics in Biosciences	
Systems Biology/Ev	olution Requirement	3
BIOL 502	Adaptation in Biosystems	
<b>BIOL 691</b>	Current Topics in Biology 4	
or <u>BIOL 502</u>	Adaptation in Biosystems	
or <u>BMED 604</u>	Fundamentals of Human Physiology	
Research Requirem	ent	2-6

Students have the option to complete a 2-3 credit research project (<u>BIOL 798</u> Master's Research Project) or a 3-5 credit master's thesis (<u>BIOL 799</u> Thesis). In accordance with AP.6 Graduate Policies, the same quality of work is expected of students regardless of which option they choose.

#### SC-MS-BIOL: Biology, MS

Research Project: The MS project is most appropriate for students who have scheduling commitments, such as a fulltime job, that may preclude performing a complete series of laboratory experiments. Students pursuing the project option must successfully complete written and oral comprehensive exams. Additionally, students should present their research orally or as a poster to a community outside of the classroom, at Mason conferences or at external conferences.

Thesis: In general, the MS thesis is most appropriate for students planning or considering a research career. Students pursuing the thesis option must write a formal thesis that meets the requirements of the school and must defend their thesis and present their results in a public seminar.

Select a Research Project or a Master's Thesis

Master's Research Project (2-3 credits) **BIOL 798** Thesis (3-5 credits)

**BIOL 799** 

**Total Credits** 

1 When the topic is "Research Methods," or "Creativity and Innovation".

2 May be taken up to two times in this program under different topics.

3 May be taken up to six times in this program under different topics.

### 4 BIOL 691 Current Topics in Biology is permissible when the topic is "Fun Concepts of Evolution".

5 Available only to students in the Advanced Biomedical Sciences Graduate Certificate.

## **MS without Concentration**

**General Coursework** 

In consultation with an advisor, select at least 12 credits of graduate coursework from BIOL, BIOS, BMED, or NEURprefixed courses. Suggestions include:

<u>BIOL 508</u>	Selected Topics in Animal Biology 1
<u>BIOL 553</u>	Advanced Topics in Immunology
<u>BIOL 566</u>	Cancer Genomics
<u>BIOL 568</u>	Advanced Topics in Molecular Genetics 2
<u>BIOL 575</u>	Selected Topics in Genetics
<u>BIOL 579</u>	Molecular Evolution and Conservation Genetics
<u>BIOL 583</u>	General Biochemistry
<u>BIOL 585</u>	Eukaryotic Cell Biology Laboratory
<u>BIOL 667</u>	Signal Transduction in Cancer
<u>BIOL 693</u>	Directed Studies in Biology 3
or <u>BINF 795</u>	Bioinformatics Internship
BIOL 793	Research in Biology
<u>BIOS 740</u>	Laboratory Methods in Functional Genomics and Biotechnology
<u>BIOS 741</u>	Genomics
BIOS 742	Biotechnology
BIOS 743	Genomics, Proteomics, and Bioinformatics
BIOS 744	Molecular Genetics
BIOS 767	Molecular Evolution
<u>BMED 604</u>	Fundamentals of Human Physiology 4
otal Credits:	

Total Credits:

1 Suggested section topics: "Research and Development in a Biotechnology Company," "Biology of Obesity and Weight

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Loss," "Human Anatomy," or "Medical Biochemistry". Other relevant topics may only be applied toward the degree with advisor approval.

2When the topic is "Epigenetics".

- 3 No more than 3 credits of directed study or internship can be applied.
  - Topics should be relevant and approved by the program director.

4 Course is only available for students also enrolled in the Advanced Biomedical Sciences Graduate Certificate.

# **Concentration in Evolutionary Biology (EB)**

Populations and Species

Select 3-6 credits from the following:

	-
<u>BIOL 574</u>	Population Genetics
<u>BIOL 579</u>	Molecular Evolution and Conservation Genetics
or <u>BIOS 767</u>	Molecular Evolution
<u>BIOL 648</u>	Population Ecology
<u>BIOL 691</u>	Current Topics in Biology

Organismal Biology

Select 3-6 credits from the following:

	-
<u>BIOL 501</u>	Microbial Diversity: An Organismal Approach
<u>BIOL 507</u>	Selected Topics in Ecology
<u>BIOL 508</u>	Selected Topics in Animal Biology
<u>BIOL 518</u>	Conservation Biology
<u>BIOL 528</u>	Planetary Health
<u>BIOL 532</u>	Animal Behavior
<u>BIOL 533</u>	Selected Topics in Plant Biology
<u>BIOL 537</u>	Ornithology
<u>BIOL 538</u>	Mammalogy
<u>BIOL 539</u>	Herpetology
<u>BIOL 543</u>	Tropical Ecosystems
<u>BIOL 559</u>	Fungi and Ecosystems
<u>BIOL 566</u>	Cancer Genomics
<u>BIOL 581</u>	Estuarine and Coastal Ecology
<u>BIOL 582</u>	Estuarine and Coastal Ecology Laboratory
<u>BIOL 643</u>	Microbial Ecology
<u>EVPP 536</u>	The Diversity of Fishes

Molecular Techniques

Select 3-4 credits from the following:

<u>BIOL 693</u>	Directed Studies in Biology 1
or <u>BINF 795</u>	Bioinformatics Internship
<u>BINF 630</u>	<b>Bioinformatics Methods</b>
<u>BIOS 716</u>	Methods in Evolutionary Biology
EVPP 515	Molecular Environmental Biology
EVPP 615	Molecular Environmental Biology

Electives

If needed in order to reach a total of 30 credits, select from the following courses: 2

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2-6

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<u>BIOL 693</u>	Directed Studies in Biology 1
or <u>BINF 795</u>	Bioinformatics Internship
<u>BIOS 741</u>	Genomics

Any additional course listed in the Core Courses section

Total Credits:

- 1 No more than 3 credits of directed study or internship can be applied to this concentration.
  - Topics should be relevant to the concentration and should be approved by the program director.

2 Other relevant graduate-level coursework may be selected in consultation with the advisor.

# **Concentration in Microbiology and Infectious Disease (MID)**

Microbiology and Inf	ectious Diseases	12
In consultation with a	an advisor, select 12 credits from the following:	
<u>BINF 739</u>	Topics in Bioinformatics 1	
<u>BIOL 553</u>	Advanced Topics in Immunology	
<u>BIOL 563</u>	Virology	
<u>BIOL 685</u>	Emerging Infectious Diseases	
<u>BIOL 693</u>	Directed Studies in Biology 2	
<u>BIOL 669</u>	Pathogenic Microbiology	
<u>BIOL 715</u>	Microbial Physiology	
Electives		0-3
If needed to reach a	total of 30 credits, select from the following courses:	
<u>BIOL 508</u>	Selected Topics in Animal Biology 3	
<u>BIOL 560</u>	Infectious Diseases of Wildlife	
<u>BIOL 564</u>	Techniques in Virology	
<u>BIOL 583</u>	General Biochemistry	
<u>BIOL 718</u>	Techniques in Microbial Pathogenesis	
BIOS 742	Biotechnology	
Any additional co	urse listed in the Core Courses section	
Total Credits:		30
1 When the topic is "	Computational Analysis: Viral Genomes".	
2 • No more than 3	3 credits of directed study can be applied to this concentration.	
<ul> <li>Topics should b</li> </ul>	e relevant to the concentration and should be approved by the program director.	
3 When the topic is "	Water and Disease".	
Concentrati	on in Molecular Biology (MOB)	

### Molecular Biology

In consultation with an advisor, select 12 credits from the following:

<u>BIOL 508</u>	Selected Topics in Animal Biology 1
or <u>BIOL 583</u>	General Biochemistry
BIOL 568	Advanced Topics in Molecular Genetics
<u>BIOL 579</u>	Molecular Evolution and Conservation Genetics
or <u>BIOS 767</u>	Molecular Evolution
<u>BIOL 580</u>	Computer Applications for the Life Sciences

https://workingcatalog.gmu.edu/courseleaf/approve/?role=SC Curriculum Committee

12

	or <u>BINF 630</u>	Bioinformatics Methods
	BIOL 583	General Biochemistry
	BIOL 585	Eukaryotic Cell Biology Laboratory
	<u>BIOL 678</u>	Cell-Based Assays
	<u>BIOL 693</u>	Directed Studies in Biology 2
	or <u>BINF 795</u>	Bioinformatics Internship
	BIOS 701	Systems Biology
	BIOS 716	Methods in Evolutionary Biology
	BIOS 742	Biotechnology
	or <u>BINF 633</u>	Molecular Biotechnology
	<u>BINF 739</u>	Topics in Bioinformatics
	<u>NEUR 651</u>	Molecular Neuropharmacology
L	actives	

### Electives

If needed to reach a total of 30 credits, select from the following courses:

<u>BINF 641</u>	Biomolecular Modeling
BIOL 693	Directed Studies in Biology 2
or <u>BINF 795</u>	Bioinformatics Internship
<u>BIOS 741</u>	Genomics
NEUR 592	Special Topics in Neuroscience 3
or <u>NEUR 689</u>	Topics in Neuroscience
<u>CHEM 564</u>	General Biochemistry II
<u>CHEM 660</u>	Protein Biochemistry

Any additional course listed in the Core Courses section

Total Credits:

1 When the topic is "Research and Development in a Biotechnology Company," or "Medical Biochemistry".

- 2 No more than 3 credits of directed study or internship can be applied to this concentration.
  - Topics should be relevant to the concentration and should be approved by the program director.

3 When the topic is "Glutamatergic Systems" or "Epigenetics".

## **Concentration in Neuroscience (NEUR)**

Statistics

Select 3 credits from the following:

- BINF 530 Introduction to Bioinformatics Methods
- BINF 630 Bioinformatics Methods
- BINF 702 Biological Data Analysis
- BIOL 691 Current Topics in Biology 1
- STAT 535 Analysis of Experimental Data
- STAT 544 Applied Probability
- STAT 554 Applied Statistics I

### Neurobiology

In consultation with an advisor, select 9 credits from the following, at least 6 of which must be in NEUR-prefixed courses:

- BIOL 508 Selected Topics in Animal Biology 2
- BIOL 568 Advanced Topics in Molecular Genetics 3
- BIOL 693 Directed Studies in Biology 4

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or <u>BINF 795</u>	Bioinformatics Internship
<u>NEUR 592</u>	Special Topics in Neuroscience
<u>NEUR 601</u>	Developmental Neuroscience
<u>NEUR 602</u>	Cellular Neuroscience
<u>NEUR 603</u>	Mammalian Neuroanatomy
<u>NEUR 612</u>	Neuroethics
<u>NEUR 621</u>	Synaptic Plasticity
<u>NEUR 634</u>	Neural Modeling
<u>NEUR 651</u>	Molecular Neuropharmacology
<u>NEUR 689</u>	Topics in Neuroscience (any topic is allowed; may be repeated)
<u>NEUR 701</u>	Neuroscience Laboratory
<u>NEUR 709</u>	Neuroscience Seminars
<u>NEUR 710</u>	Special Topics in Neuroscience
<u>NEUR 734</u>	Computational Neurobiology
<u>NEUR 741</u>	Introduction to Neuroimaging

### Electives

If needed to reach a total of 30 credits, select from the following:

General Biochemistry
Current Topics in Biology 5
Genomics, Proteomics, and Bioinformatics
Directed Studies in Biology 4
Bioinformatics Internship

Any additional NEUR-prefixed course at the 500-700 levels

Other relevant graduate-level coursework may be selected in consultation with the advisor

### Total Credits:

1 When the topic is "MATLAB for Brain, Biological, and Cognitive Scientists".

2 When the topic is "Biology of Obesity and Weight Loss".

3 When the topic is "Epigenetics".

• No more than 3 credits of directed study or internship can be applied to this concentration.

• Topics should be relevant to the concentration and should be approved by the program director.

5 When the topic is "Genomics, Proteomics, and Bioinformatics".

## **Concentration in Nutrition Genetics and Nutraceuticals (NGN)**

Nutrition

In consultation with an advisor, choose 6 credits from the following:

BIOL 508	Selected Topics in Animal Biology 1
<u>NUTR 522</u>	Nutrition Across the Lifespan
<u>NUTR 642</u>	Macronutrients
<u>NUTR 670</u>	Nutrition Research Methods
Human Diseases	

In consultation with an advisor, choose 6 credits from the following:

<u>BIOL 566</u>	Cancer Genomics
<u>BIOL 666</u>	Human Genetics Concepts for Health Care
BIOS 743	Genomics, Proteomics, and Bioinformatics

https://workingcatalog.gmu.edu/courseleaf/approve/?role=SC Curriculum Committee

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#### Electives

If needed to reach a total of 30 credits, select from the following courses:

BIOL 508	Selected Topics in Animal Biology 2
BIOL 562	Personalized Medicine
BIOL 568	Advanced Topics in Molecular Genetics
BIOL 583	General Biochemistry
BIOL 693	Directed Studies in Biology 3
or <u>BINF 795</u>	Bioinformatics Internship
<u>CHEM 564</u>	General Biochemistry II

Any additional course listed in the Core Courses section

### **Total Credits**

1 When the topic is "Biology of Obesity and Weight Loss," or "Medical Biochemistry".

2 When the topic is "Research and Development in Biotechnology Companies".

- 3 No more than 3 credits of directed study or internship can be applied to this concentration.
  - Topics should be relevant to the concentration and should be approved by the program director.

# **Concentration in Translational and Clinical Research (TCR)**

Translational and Clinical Research 1
In consultation with an advisor, select 12 credits from the following:

<u>BIOL 508</u>	Selected Topics in Animal Biology 2
<u>BIOL 562</u>	Personalized Medicine
<u>BIOL 566</u>	Cancer Genomics
<u>BIOL 666</u>	Human Genetics Concepts for Health Care
<u>BIOL 667</u>	Signal Transduction in Cancer
<u>BIOL 691</u>	Current Topics in Biology 3
or <u>BIOS 743</u>	Genomics, Proteomics, and Bioinformatics
<u>BIOL 693</u>	Directed Studies in Biology 4
or <u>BINF 795</u>	Bioinformatics Internship
<u>BMED 603</u>	Cell Biology and Microscopic Anatomy 5
<u>BMED 604</u>	Fundamentals of Human Physiology 5
<u>BMED 605</u>	Introduction to Human Anatomy 5

#### Electives

If needed to reach a total of 30 credits, select from the following courses:

- BIOL 508 Selected Topics in Animal Biology 6
- BIOL 568 Advanced Topics in Molecular Genetics
- BIOL 693 Directed Studies in Biology 4
- or BINF 795 Bioinformatics Internship
- BIOS 741 Genomics

Any additional course listed in the Core Courses section

Other relevant graduate-level coursework may be selected in consultation with the advisor

Total Credits:

1 For students concurrently enrolled in the <u>Advanced Biomedical Sciences Graduate Certificate</u>, contact your advisor for details regarding:

• BMED course credit that may be counted towards this concentration

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#### SC-MS-BIOL: Biology, MS

- Meeting the requirements for graduate certificates and for master's degrees
- 2When the topic is "Research and Development in a Biotechnology Company," "Biology of Obesity and Weight Loss," or "Medical Biochemistry".

3 When the topic is "Genomics/Proteomics/Bioinformatics".

- 4 No more than 3 credits of directed study or internship can be applied to this concentration.
  - Topics should be relevant to the concentration and should be approved by the program director.

5 Course is only available for students enrolled in the <u>Advanced Biomedical Sciences Graduate Certificate</u>. 6 When the topic is "Research and Development in a Biotechnology Company".

Retroactive Requirements Updates:

#### **Plan of Study:**

Honors Information:

Accelerated Description/Dual Degree Description:

INTO-Mason Requirements: College Requirements & Policies:

Department / Academic Unit Requirements & Policies:

#### **Program Outcomes**

### **Additional Program Information**

This information is required by the Office of Accreditation and Program Integrity.

Courses offered via distance (if applicable):

Indicate whether students are able

What is the<br/>primary delivery<br/>format for the<br/>program?Both Face-to-Face and DistanceDoes any portion of this program occur off-campus?

	No	
Off-campus details:		
Are you working with	a vendor / other collaborators to offer your program?	
	No	
Please explain:		
Related Departments	Department	
Departmento	Health & Human Services	
Could this program provide the second	epare students for any type of professional licensure, in	
	No	
Please explain:		
Are you adding or removing a licensure component?		
	No	
Please explain:		

### Additional SCHEV & SACSCOC Information

Is the content of the new program closely related to that of an existing approved program at the same instructional level (i.e., baccalaureate, master's, doctoral)?

Which existing approved program(s)?

Is this new program considered to be "advancing the degree level of a currently approved program" (i.e. existing content is at lower degree level, new content is at the higher degree level)?

Which existing approved program(s)?

Is this new program considered to be "lowering the degree level of a currently approved program" (i.e. existing content is at higher degree level, new content is at the lower degree level)?

Which existing approved program(s)?

Is this a re-opening of a program that was closed to admission within the last five years?

**Date of Program Closure** 

What are the methods of delivery for the program?

Does this program include a course/credit-based competency-based education delivery option?

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

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Which existing approved program(s)?	
	course content. ("New course content" is defined by SACSCOC as content that roved degree/certificate program at the same instructional level. Do not ndergraduate programs.)
Does this change include the addition of a c	distance education or face-to-face method of delivery for this program?
No	
What is the new method of delivery?	
Does this change include the addition of a o No	course/credit-based competency-based education delivery option?
Will any additional equipment/facilities be	needed?
No	
Description of institutional impact:	
Will any additional faculty be required?	
No	
Description of institutional impact:	
Will any additional financial resources be n	eeded?
No	
Description of institutional impact:	
Additional library/learning resources neede	ed?
No	
Description of institutional impact:	
OAPI Use Only – Determination of	SACSCOC Impact

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SC-MS-BIOL: Biology, MS

**Comments or Notes** 

8/15/22, 12:46 PM

# Green Leaf Program Designation

Is this a Green Leaf No program?

**Green Leaf** Decignation

Relationship to Existing Courses Relationship to Existing Programs List sustainabilityfocused courses currently required in the degree

Sustainability-related academic programs either require at least one sustainability-related course or else offer any green leaf course as an ontion or elective \*

List sustainabilityrelated courses currently required in the degree

Document

Does this program cover material which crosses into another department?	
	No
Impacted Departments Additional Attachments	
SCHEV Proposal	
Executive Summary	
Reviewer Comments	
Additional Comments	
Is this course required of all students in this degree program?	
	%wi_required.eschtml%
Attached	%attach_document.eschtml%

Key: 418