

Program Change Request

Date Submitted: 02/23/24 3:56 pm

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

Last approved: 03/31/23 2:08 pm

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

Changes proposed by: jbazaz

Catalog Pages
Using this Program
[Biology, MS](#)

No Longer
Anticipated closure
date (i.e., calendar
Rationale for

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:
Biology, MS

- Approval Criteria
1. What was the process used within your academic
 2. Who was involved in approving the badge?
 3. What evidence was used to identify need/demand
 4. Have you ensured there are no other existing badge?
 5. Is this badge co-sponsored with another organization, association, or unit? (If you would like an
- Earning Criteria
- Course:

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 10:42 am
Ramin Hakami (rhakami):
Approved for SSB CC
2. 03/22/24 11:43 am
Iosif 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)

Badge:**Participant:****Document:****Portfolio:****Presentation:****Assessment:****Credential:****Education****Other:****Project:****Professional****Schedule/Registration:****Volunteer:****Skills Tag****Skills Tag****Badge Attributes***Please select one from each category:***Achievement Type:****Mastery Level:****Time Commitment:****Cost:****Industry Standards:****Recommendations:****Issuance information and Pricing***Pricing: See <https://cpe.gmu.edu/digitalbadgespricing/> for more information***Estimated Number of Badges Expected to be Issued:****Notes:**

- All badge requests will be routed to CPE for review and approval. Please allow 7
- A Mason Digital Credentials Advisory Group may be developed to review badge

Banner Title: Biology, MS**Is this a retitling of an existing program?****Existing Program****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**

6. Oct 30, 2020 by Tory Sarro (vsarro)
7. Jan 29, 2021 by Jennifer Bazaz Gettys (jbazaz)
8. Feb 23, 2021 by jriemen
9. Mar 7, 2021 by jriemen
10. Feb 8, 2022 by Jennifer Bazaz Gettys (jbazaz)
11. May 2, 2022 by Jennifer Bazaz Gettys (jbazaz)
12. Sep 28, 2022 by Jennifer Bazaz Gettys (jbazaz)
13. Mar 31, 2023 by Jennifer Bazaz Gettys (jbazaz)

Concentration(s):

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

INTO Major(s):

**Registrar/IRR Use
Only –
Concentration CIP
Code**

College/School: College of Science

**Department /
Academic Unit:** School of Systems Biology

**Jointly Owned
Program?** No

Participating

Participating

Justification

What: Referring applicants to central admissions language and removing extraneous wording.

Why: To make the program more adaptable to changes in university policies.

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 [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

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.

~~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.

~~plus. Admission is contingent on acceptance by a faculty research advisor.~~

Admission is contingent upon acceptance by a faculty research advisor.

~~The GRE is not required for admission into this program.~~ Evolutionary Biology (EB) Concentration

Applicants

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 Applicants

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

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.

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 [School of Systems Biology](#).

Students must complete all core courses and choose one concentration option:

Core Courses

| | |
|--------------------------------|---|
| Cell and Molecular Requirement | 3 |
|--------------------------------|---|

| | |
|-----------------------------|----------------------------------|
| BIOL 682 | Advanced Eukaryotic Cell Biology |
| or BIOS 744 | Molecular Genetics |

| | |
|----------------------------------|---|
| Professional Methods Requirement | 4 |
|----------------------------------|---|

| | |
|--------------------------|---|
| BIOL 690 | Introduction to Graduate Studies in Biology |
|--------------------------|---|

Choose one from the following:

| | |
|-----------------------------|--|
| BIOL 689 | Interdisciplinary Tools in the Biosciences |
| BIOL 691 | Current Topics in Biology 1 |
| or BIOS 702 | Research Methods |
| NEUR 702 | Research Methods |

| | |
|---------------------|---|
| Seminar Requirement | 3 |
|---------------------|---|

Select a total of 3 credits from the following courses:

| | |
|--------------------------|---|
| BINF 704 | Colloquium in Bioinformatics |
| BIOL 692 | Seminar in Biology (may be repeated) 2 |
| BIOL 695 | Seminar in Molecular, Microbial, and Cellular Biology (may be repeated) 3 |
| BIOS 704 | Topics in Biosciences |

| | |
|---------------------------------------|---|
| Systems Biology/Evolution Requirement | 3 |
|---------------------------------------|---|

| | |
|-----------------------------|----------------------------------|
| BIOL 691 | Current Topics in Biology 4 |
| or BIOL 502 | Adaptation in Biosystems |
| or BMED 604 | Fundamentals of Human Physiology |

| | |
|----------------------|-----|
| Research Requirement | 2-6 |
|----------------------|-----|

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

Research Project: The MS project is most appropriate for students who have scheduling commitments, such as a full-time 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

[BIOL 798](#) Master's Research Project (2-3 credits)

[BIOL 799](#) Thesis (3-5 credits)

Total Credits

15-

19

1

When the topic is "Research Methods," or "Creativity and Innovation," or "Principles of Biomedical Literature Review".

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

12

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

[BIOL 508](#) Selected Topics in Animal Biology 1

[BIOL 553](#) Advanced Topics in Immunology

[BIOL 566](#) Cancer Genomics

[BIOL 568](#) Advanced Topics in Molecular Genetics 2

[BIOL 575](#) Selected Topics in Genetics

[BIOL 579](#) Molecular Evolution and Conservation Genetics

[BIOL 583](#) General Biochemistry

[BIOL 585](#) Eukaryotic Cell Biology Laboratory

[BIOL 667](#) Signal Transduction in Cancer

[BIOL 693](#) Directed Studies in Biology 3

or [BINF 795](#) Bioinformatics Internship

[BIOL 793](#) Research in Biology

[BIOS 740](#) Laboratory Methods in Functional Genomics and Biotechnology

[BIOS 741](#) Genomics

[BIOS 742](#) Biotechnology

[BIOS 743](#) Genomics, Proteomics, and Bioinformatics

[BIOS 744](#) Molecular Genetics

[BIOS 767](#)

Molecular Evolution

[BMED 604](#)

Fundamentals of Human Physiology 4

Total Credits:

30

1

Suggested section topics: "Research and Development in a Biotechnology Company," "Biology of Obesity and Weight Loss," "Human Anatomy," or "Medical Biochemistry". Other relevant topics may only be applied toward the degree with advisor approval.

2

When 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

3-6

Select 3-6 credits from the following:

[BIOL 574](#)

Population Genetics

[BIOL 579](#)

Molecular Evolution and Conservation Genetics

or [BIOS 767](#)

Molecular Evolution

[BIOL 648](#)

Population Ecology

[BIOL 691](#)

Current Topics in Biology

Organismal Biology

3-6

Select 3-6 credits from the following:

[BIOL 501](#)

Microbial Diversity: An Organismal Approach

[BIOL 507](#)

Selected Topics in Ecology

[BIOL 508](#)

Selected Topics in Animal Biology

[BIOL 518](#)

Conservation Biology

[BIOL 528](#)

Planetary Health

[BIOL 532](#)

Animal Behavior

[BIOL 533](#)

Selected Topics in Plant Biology

[BIOL 537](#)

Ornithology

[BIOL 538](#)

Mammalogy

[BIOL 539](#)

Herpetology

[BIOL 543](#)

Tropical Ecosystems

[BIOL 559](#)

Fungi and Ecosystems

[BIOL 566](#)

Cancer Genomics

[BIOL 581](#)

Estuarine and Coastal Ecology

[BIOL 582](#)

Estuarine and Coastal Ecology Laboratory

[BIOL 643](#)

Microbial Ecology

[EVPP 536](#)

The Diversity of Fishes

Molecular Techniques

3-4

Select 3-4 credits from the following:

| | |
|-----------------------------|------------------------------------|
| BIOL 693 | Directed Studies in Biology 1 |
| or BINF 795 | Bioinformatics Internship |
| BINF 630 | Bioinformatics Methods |
| BIOS 716 | Methods in Evolutionary Biology |
| EVPP 515 | Molecular Environmental Biology I |
| EVPP 615 | Molecular Environmental Biology II |

Electives

2-6

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

| | |
|-----------------------------|-------------------------------|
| BIOL 693 | Directed Studies in Biology 1 |
| or BINF 795 | Bioinformatics Internship |
| BIOS 741 | Genomics |

Any additional course listed in the Core Courses section

Total Credits:

30

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 Infectious Diseases

12

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

| | |
|--------------------------|-------------------------------|
| BINF 739 | Topics in Bioinformatics 1 |
| BIOL 553 | Advanced Topics in Immunology |
| BIOL 563 | Virology |
| BIOL 685 | Emerging Infectious Diseases |
| BIOL 693 | Directed Studies in Biology 2 |
| BIOL 669 | Pathogenic Microbiology |
| BIOL 715 | Microbial Physiology |

Electives

0-3

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

| | |
|--------------------------|--------------------------------------|
| BIOL 508 | Selected Topics in Animal Biology 3 |
| BIOL 560 | Infectious Diseases of Wildlife |
| BIOL 564 | Techniques in Virology |
| BIOL 583 | General Biochemistry |
| BIOL 718 | Techniques in Microbial Pathogenesis |
| BIOS 742 | Biotechnology |

Any additional course listed in the Core Courses section

Total Credits:

30

1

When the topic is "Computational Analysis: Viral Genomes".

2

- No more than 3 credits of directed study 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 "Water and Disease".

Concentration in Molecular Biology (MOB)

Molecular Biology

12

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 |
| <u>BIOL 568</u> | 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 |
| or <u>BINF 630</u> | Bioinformatics Methods |
| <u>BIOL 583</u> | General Biochemistry |
| <u>BIOL 585</u> | 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 |
| <u>BIOS 701</u> | Systems Biology |
| <u>BIOS 716</u> | Methods in Evolutionary Biology |
| <u>BIOS 742</u> | Biotechnology |
| or <u>BINF 633</u> | Molecular Biotechnology |
| <u>BINF 739</u> | Topics in Bioinformatics |
| <u>NEUR 651</u> | Molecular Neuropharmacology |

Electives

0-3

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

| | |
|------------------------------------|----------------------------------|
| <u>BINF 641</u> | Biomolecular Modeling |
| <u>BIOL 693</u> | Directed Studies in Biology 2 |
| or <u>BINF 795</u> | Bioinformatics Internship |
| <u>BIOS 741</u> | Genomics |
| <u>NEUR 592</u> | 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:

30

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

3

Select 3 credits from the following:

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

Neurobiology

9

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

| | |
|------------------------------------|--|
| <u>BIOL 508</u> | Selected Topics in Animal Biology 2 |
| <u>BIOL 568</u> | Advanced Topics in Molecular Genetics 3 |
| <u>BIOL 693</u> | Directed Studies in Biology 4 |
| 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> | Bioscience, Neurotechnology Society |
| <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

0-

3

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

| | |
|---------------------------------|-----------------------------|
| <u>BIOL 583</u> | General Biochemistry |
| <u>BIOL 691</u> | Current Topics in Biology 5 |

or [BIOS 743](#) Genomics, Proteomics, and Bioinformatics

[BIOL 693](#) Directed Studies in Biology 4

or [BINF 795](#) 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:

30

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".

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

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

Concentration in Nutrition Genetics and Nutraceuticals (NGN)

Nutrition

6

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

[BIOL 508](#) Selected Topics in Animal Biology 1

[NUTR 522](#) Nutrition Across the Lifespan

[NUTR 553](#) Nutrients

[NUTR 651](#) Nutrition Assessment

[NUTR 670](#) Nutrition Research Methods

Human Diseases

6

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

[BIOL 508](#) Selected Topics in Animal Biology (when the topic is "Medical Biochemistry")

[BIOL 566](#) Cancer Genomics

or [BIOL 667](#) Signal Transduction in Cancer

[BIOL 586](#) Medical Biochemistry

[BIOL 666](#) Human Genetics Concepts for Health Care

[BIOS 743](#) Genomics, Proteomics, and Bioinformatics

[NUTR 662](#) Medical Nutrition Therapy I

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 [BINF 795](#) Bioinformatics Internship

[CHEM 564](#) General Biochemistry II

Any additional course listed in the Core Courses section

Total Credits

30

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

12

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

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

Electives

0-3

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:

30

1

For students concurrently enrolled in the [Advanced Biomedical Sciences Graduate Certificate](#), contact your advisor for details regarding:

- BMED course credit that may be counted towards this concentration
- Meeting the requirements for graduate certificates and for master's degrees

2

When 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 [Advanced Biomedical Sciences Graduate Certificate](#).

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
primary delivery**

Both Face-to-Face and Distance

format for the program?

Does 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 |
|-------------------------|
| Health & Human Services |

Could this program prepare students for any type of professional licensure, in Virginia or elsewhere?

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

Which existing approved program(s)?

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

What is the new method of delivery?

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

Description of institutional impact:

Will any additional faculty be required?

No

Description of institutional impact:

Will any additional financial resources be needed?

No

Description of institutional impact:

Additional library/learning resources needed?

No

Description of institutional impact:**OAPI Use Only – Determination of SACSCOC Impact**

Comments or Notes**Green Leaf Program Designation**

Is this a Green Leaf program? No**Green Leaf Designation**

Sustainability-focused academic programs require at least one green leaf course. Either that course is itself sustainability-focused or else the program requires a set of sustainability-related courses with aggregated sustainability-focused content.

Relationship to Existing Courses**Relationship to Existing Programs****List sustainability-focused 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 option or elective *

List sustainability-related courses currently required in the degree**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.eshtml%

**Attached
Document**

Key: 418