

# Program Change Request

Date Submitted: 12/02/22 10:41 am

Viewing: **SC-BS-FRSC : Forensic Science, BS**

Last approved: 05/25/22 10:48 am

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Changes proposed by: jbazaz

**Catalog Pages  
Using this Program**  
[Forensic Science, BS](#)

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

Yes

**Requestor:**

## In Workflow

1. **FRSC Chair**
2. **SC Curriculum Committee**
3. SC Associate Dean
4. Assoc Provost- Undergraduate
5. Registrar-Programs

## Approval Path

1. 12/06/22 5:26 pm  
Kimberly Rule  
(kcarisi): Approved  
for FRSC Chair

## History

1. Nov 1, 2017 by  
clmig-jwehrheim
2. Dec 7, 2018 by  
Jennifer Bazaz  
Gettys (jbazaz)
3. Dec 5, 2019 by  
Jennifer Bazaz  
Gettys (jbazaz)
4. Mar 26, 2020 by  
Tory Sarro (vsarro)
5. Jan 29, 2021 by  
Jennifer Bazaz  
Gettys (jbazaz)
6. Apr 13, 2021 by  
Tory Sarro (vsarro)
7. Apr 13, 2021 by  
Tory Sarro (vsarro)
8. Apr 13, 2021 by  
Tory Sarro (vsarro)

9. May 12, 2022 by  
Tory Sarro (vsarro)  
10. May 25, 2022 by  
Tory Sarro (vsarro)

Name	Extension	Email
Kimberly Rule	5338	kcarisi@gmu.edu

**Effective Catalog:** 2023-2024

**Program Level:** Undergraduate

**Program Type:** Bachelor's

**Degree Type:** Bachelor of Science

**Title:** Forensic Science, BS

**Banner Title:** Forensic Science, BS

**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):**

	Associated Concentrations	Registrar's Office Use Only: Concentration Code
1	Forensic Biology	FRBL
2	Forensic Chemistry	FRCH

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

**College/School:** College of Science

**Department / Academic Unit:** Forensic Science Program

**Jointly Owned Program?** No

**Justification**

What: Decoupling the lecture/lab sections for the supporting science course elective options.

Why: We didn't intend for students to have to take lectures and labs, they don't have to take the lab to fulfill the requirement.

**Total Credits Required:** Total credits: minimum 120

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

SC-BS-FRSC

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

**Admission Requirements:**

## Admissions

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University-wide admissions policies can be found in the [Undergraduate Admissions Policies](#) section of this catalog. To apply for this program, please complete the [George Mason University Admissions Application](#).

**Program-Specific Policies:**

## Policies

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Students must fulfill all [Requirements for Bachelor's Degrees](#), including the [Mason Core](#). [FRSC 302](#) Forensic Trace Analysis **and** [FRSC 304](#) Forensic Chemistry will satisfy the writing intensive requirement. For policies governing all undergraduate programs, see [AP.5 Undergraduate Policies](#).

**Degree Requirements:**

Students should refer to the [Admissions & Policies](#) tab for specific policies related to this program. Students majoring in forensic science must complete the core courses and choose one concentration. Students cannot declare the concentration upon admission; it can be declared once the student has earned a minimum of 60 credits. All major coursework must be completed with a minimum GPA of 2.30. No more than three courses with a grade of 'D' (1.00) may be applied to the major. Students are advised to be aware of any prerequisites that may be required for each course in the curriculum. Students are only permitted three attempts for all major courses; following a third unsuccessful attempt the student will no longer be able to pursue the major.

## Forensic Science Core Courses

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Students in each concentration should complete the following courses:

Forensic Science Courses

<a href="#">FRSC 200</a>	Survey of Forensic Science	3
<a href="#">FRSC 201</a>	Introduction to Criminalistics	3
<a href="#">FRSC 302</a>	Forensic Trace Analysis 1	3
<a href="#">FRSC 303</a>	Forensic Evidence and Ethics	3
<a href="#">FRSC 304</a>	Forensic Chemistry	4
& <a href="#">FRSC 305</a>	and Forensic Chemistry Laboratory 1	
<a href="#">FRSC 401</a>	Crime Scene Investigations	3
<a href="#">FRSC 405</a>	Independent Research Methods	3
or <a href="#">FRSC 406</a>	Forensic Internship	
<a href="#">FRSC 460</a>	Forensic DNA Analysis	4
& <a href="#">FRSC 461</a>	and Forensic DNA Analysis Laboratory	
<a href="#">FRSC 499</a>	Comprehensive Examination	0
<a href="#">CRIM 100</a>	Introduction to Criminal Justice ( <a href="#">Mason Core</a> )	3

Natural Science Core Courses

<a href="#">BIOL 213</a>	Cell Structure and Function	4
<a href="#">BIOL 214</a>	Biostatistics for Biology Majors	3-4
or <a href="#">STAT 250</a>	Introductory Statistics I ( <a href="#">Mason Core</a> )	
<a href="#">BIOL 311</a>	General Genetics	4
<a href="#">CHEM 211</a>	General Chemistry I ( <a href="#">Mason Core</a> )	4
& <a href="#">CHEM 213</a>	and General Chemistry Laboratory I ( <a href="#">Mason Core</a> )	
<a href="#">CHEM 212</a>	General Chemistry II ( <a href="#">Mason Core</a> )	4
& <a href="#">CHEM 214</a>	and General Chemistry Laboratory II ( <a href="#">Mason Core</a> )	
<a href="#">CHEM 313</a>	Organic Chemistry I	5
& <a href="#">CHEM 315</a>	and Organic Chemistry Lab I	
<a href="#">CHEM 314</a>	Organic Chemistry II	5
& <a href="#">CHEM 318</a>	and Organic Chemistry Lab II	
<a href="#">MATH 113</a>	Analytic Geometry and Calculus I ( <a href="#">Mason Core</a> )	4-6
or <a href="#">MATH 123</a>	Calculus with Algebra/Trigonometry, Part A	
& <a href="#">MATH 124</a>	and Calculus with Algebra/Trigonometry, Part B ( <a href="#">Mason Core</a> )	
<a href="#">PHYS 243</a>	College Physics I ( <a href="#">Mason Core</a> )	4
& <a href="#">PHYS 244</a>	and College Physics I Lab ( <a href="#">Mason Core</a> ) 2	
<a href="#">PHYS 245</a>	College Physics II ( <a href="#">Mason Core</a> )	4
& <a href="#">PHYS 246</a>	and College Physics II Lab ( <a href="#">Mason Core</a> ) 2	

Total Credits

70-73

1 [FRSC 302](#) and [FRSC 304](#) will satisfy this major's writing-intensive requirement.

2 Students in the Forensic Chemistry Concentration may instead choose the following physics sequence:

[PHYS 160](#) & [PHYS 161](#) & [PHYS 260](#) & [PHYS 261](#)

- Please note that [PHYS 260/261](#) requires a prerequisite of [MATH 213](#).

## Degree without Concentration

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### Required Course

[BIOL 430](#) Advanced Human Anatomy and Physiology I 4

### Supporting Science Courses

Select a minimum of 8 credits from the following courses: 8

[FRSC 450](#) Practical Forensic Skeletal Biology

[BINF 401](#) Bioinformatics and Computational Biology I

[BINF 402](#) Bioinformatics and Computational Biology II

[BIOL 305](#) Biology of Microorganisms

[BIOL 306](#) **Biology of Microorganisms Laboratory**

[BIOL 404](#) Medical Microbiology

[BIOL 405](#) Microbial Genetics

[BIOL 412](#) Phage Genomics

[BIOL 417](#) Selected Topics in Molecular and Cellular Biology (When the topic is "Illumina Sequencing")

[BIOL 431](#) Advanced Human Anatomy and Physiology II

[BIOL 452](#) Immunology

[BIOL 453](#) **Immunology Laboratory**

[BIOL 482](#) Introduction to Molecular Genetics

[BIOL 484](#) Cell Signaling and Disease

[CHEM 331](#) Physical Chemistry I

[CHEM 336](#) **Physical Chemistry Lab I**

[CHEM 427](#) Aquatic Environmental Chemistry

[CHEM 446](#) Bioinorganic Chemistry

[CHEM 463](#) General Biochemistry I

[CHEM 464](#) General Biochemistry II

[CHEM 465](#) **Biochemistry Lab**

Total Credits 12

## Concentration in Forensic Biology (FRBL)

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### Required Courses

[FRSC 325](#) Molecular Biology 4

& [FRSC 326](#) and Molecular Biology Laboratory

[FRSC 470](#) Forensic Genomics 4

[BIOL 483](#) General Biochemistry 4

### Supporting Science Courses

Select a minimum of 3 credits from the following courses: 3

[FRSC 450](#) Practical Forensic Skeletal Biology

[BINF 401](#) Bioinformatics and Computational Biology I

[BINF 402](#) Bioinformatics and Computational Biology II

[BIOL 305](#) Biology of Microorganisms

**BIOL 306** **Biology of Microorganisms Laboratory**

BIOL 404 Medical Microbiology

BIOL 405 Microbial Genetics

BIOL 412 Phage Genomics

BIOL 417 Selected Topics in Molecular and Cellular Biology (When the topic is "Illumina Sequencing")

BIOL 430 Advanced Human Anatomy and Physiology I

BIOL 431 Advanced Human Anatomy and Physiology II

BIOL 452 Immunology

**BIOL 453** **Immunology Laboratory**

BIOL 482 Introduction to Molecular Genetics

BIOL 484 Cell Signaling and Disease

Total Credits

15

## Concentration in Forensic Chemistry (FRCH)

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### Required Courses

FRSC 404 Advanced Instrumentation in Forensic Chemistry 4

CHEM 321 Quantitative Chemical Analysis 4

MATH 114 Analytic Geometry and Calculus II 4

### Supporting Science Courses

Select a minimum of 7 credits from the following courses: 7

CHEM 331 Physical Chemistry I

**CHEM 336** **Physical Chemistry Lab I**

CHEM 332 Physical Chemistry II 1

**CHEM 337** **Physical Chemistry Lab II**

CHEM 422 Instrumental Methods of Chemical Analysis 1

**CHEM 423** **Instrumental Methods of Chemical Analysis Laboratory**

CHEM 427 Aquatic Environmental Chemistry

CHEM 441 Properties and Bonding of Inorganic Compounds 1

CHEM 446 Bioinorganic Chemistry

CHEM 463 General Biochemistry I

CHEM 464 General Biochemistry II

**CHEM 465** **Biochemistry Lab**

Total Credits

19

1 These course selections recommend the University Physics sequence.

**Retroactive  
Requirements  
Updates:**

**Effective Catalog years: 2021-2022, 2022-2023**

**Previous requirement as stated in the catalog: Under the Supporting Science course electives, lectures AND labs had to be completed if chosen.**

**Updated requirement: Under Supporting Science course electives, lectures and labs CAN be completed, but the labs are not required.**

Plan of Study:

Honors  
Information:

Program Outcomes

## Additional Program Information

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*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

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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

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Comments or Notes

### Green Leaf Program Designation

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Is this a Green Leaf program? No

Does this program cover material which crosses into another department?

No

**Additional  
Attachments**

**SCHEV Proposal**

**Executive Summary**

**Reviewer  
Comments**

**Additional  
Comments**

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

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