Program Change Request

Date Submitted: 10/08/24 1:38 pm

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

Last approved: 05/30/24 3:52 pm

Last edit: 10/08/24 1:38 pm

Changes proposed by: kcarisi

Catalog Pages
Using this Program
Forensic Science, BS

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

No

Effective Catalog: 2025-2026

Program Level: Undergraduate

Program Type: Bachelor's

Degree Type: Bachelor of Science

Title:

Forensic Science, BS

Banner Title: Forensic Science, BS

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):

In Workflow

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

Approval Path

 1. 10/08/24 2:10 pm Mary O'Toole (motoole2): 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)
- 11. Apr 4, 2023 by Jennifer Bazaz Gettys (jbazaz)
- 12. Mar 14, 2024 by Jennifer Bazaz Gettys (jbazaz)
- 13. May 30, 2024 by Tory Sarro (vsarro)

	Associated Concentrations	Registrar's Office Use Only: Concentration Code
1	Criminalistics	FRCR
2	Forensic Biology	FRBL
3	Forensic Chemistry	FRCH
4	Interdisciplinary Forensic Science	FRIN

Registrar/IRR Use

Only-

Concentration CIP

Code

College/School: College of Science

Department /

Forensic Science Program

Academic Unit:

Jointly Owned

No

Program?

Justification

What: Adding upper level BIOL courses that are relevant to students pursuing a forensic science degree to the Supporting Sciences/Concentration Courses offering list for the following applicable concentrations: Criminalistics, Forensic Biology, and Interdisciplinary Forensic Science concentrations.

Why: All forensic science majors are required to take upper level science courses that may be relevant to their potential career path as a forensic science student. These courses fall under Supporting Science or Concentration Courses categories. This proposal requests the addition of several BIOL courses to be added to these course offering lists to give students more course

options that are relevant to the field of forensic science under consultation with BIOL and FRSC faculty.

Total Credits

Total credits: minimum 120

Required:

Registrar's Office Use Only - Program Code:

SC-BS-FRSC

Registrar/IRR Use Only – Program CIP Code

Admission Requirements:

Admissions

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

Program-Specific

Policies:

Policies

Students must fulfill all Requirements for Bachelor's Degrees, including the Mason Core.

<u>FRSC 302</u> Forensic Trace Analysis (<u>Mason Core</u>) or <u>FRSC 304</u> Forensic Chemistry (<u>Mason Core</u>) 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 must complete the core courses, select one concentration, and complete Mason Core and Elective 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.

Core Courses

Students in each concentration must complete the following courses:

Forensic Science Core Courses

FRSC 200 Survey of Forensic Science

3

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FRSC 201	Introduction to Criminalistics	3
FRSC 302	Forensic Trace Analysis (Mason Core) 1	3
<u>CRIM 100</u>	Introduction to Criminal Justice (Mason Core)	3
Natural Science Cor	e Courses	
BIOL 213	Cell Structure and Function (Mason Core)	4
BIOL 214	Biostatistics for Biology Majors	3-4
or <u>STAT 250</u>	Introductory Statistics I (Mason Core)	
BIOL 311	General Genetics	4
<u>CHEM 211</u>	General Chemistry I (<u>Mason Core</u>)	4
& <u>CHEM 213</u>	and General Chemistry Laboratory I (Mason Core)	
CHEM 212	General Chemistry II (Mason Core)	4
& <u>CHEM 214</u>	and General Chemistry Laboratory II (Mason Core)	
CHEM 313	Organic Chemistry I	5
& <u>CHEM 315</u>	and Organic Chemistry Lab I	
CHEM 314	Organic Chemistry II	5
& <u>CHEM 318</u>	and Organic Chemistry Lab II	
MATH 113	Analytic Geometry and Calculus I (Mason Core)	4-6
or <u>MATH 123</u>	Calculus with Algebra/Trigonometry, Part A	
& <u>MATH 124</u>	and Calculus with Algebra/Trigonometry, Part B (Mason Core)	
PHYS 243	College Physics I (Mason Core)	4
& <u>PHYS 244</u>	and College Physics I Lab (Mason Core) 2	
PHYS 245	College Physics II (Mason Core)	4
& <u>PHYS 246</u>	and College Physics II Lab (Mason Core) 2	
Total Credits		53-56

FRSC 302 will satisfy this major's writing-intensive requirement.

- Students in the Forensic Chemistry Concentration may instead choose the following physics sequence: <u>PHYS 160</u> University Physics I (<u>Mason Core</u>) & <u>PHYS 161</u> University Physics I Laboratory (<u>Mason Core</u>) & <u>PHYS 260</u> University Physics II (<u>Mason Core</u>) & <u>PHYS 261</u> University Physics II Laboratory (<u>Mason Core</u>).
- Please note that <u>PHYS 260</u> University Physics II (<u>Mason Core</u>) & <u>PHYS 261</u> University Physics II Laboratory (<u>Mason Core</u>) require a prerequisite of <u>MATH 213</u> Analytic Geometry and Calculus III.

Concentration in Criminalistics (FRCR)

Forensic Science Exte	ended Core	
FRSC 303	Forensic Evidence and Ethics	3
FRSC 304 & FRSC 305	Forensic Chemistry (Mason Core) and Forensic Chemistry Laboratory ¹	4
FRSC 401	Crime Scene Investigations	3
FRSC 405	Independent Research Methods	3
or <u>FRSC 406</u>	Forensic Internship	
FRSC 460 & FRSC 461	Forensic DNA Analysis and Forensic DNA Analysis Laboratory	4
Required Concentrat	ion Courses	
Select two lecture an	d laboratory pairings for a minimum of 8 credits:	8-12
FRSC 325 & FRSC 326	Molecular Biology and Molecular Biology Laboratory	
BIOL 305 & BIOL 306	Biology of Microorganisms and Biology of Microorganisms Laboratory	
BIOL 405	Microbial Genetics	
BIOL 407	Microbial Diversity	
BIOL 430	Advanced Human Anatomy and Physiology I	
BIOL 431	Advanced Human Anatomy and Physiology II	
BIOL 452 & BIOL 453	Immunology and Immunology Laboratory	
BIOL 465	<u>Histology</u>	
BIOL 483	General Biochemistry	
or <u>CHEM 463</u> & <u>CHEM 465</u>	General Biochemistry I and Biochemistry Lab (Mason Core)	
BIOL 484 & BIOL 485	Cell Signaling and Disease and Cell Signaling Laboratory	
<u>CHEM 321</u>	Quantitative Chemical Analysis	
CHEM 331 & CHEM 336	Physical Chemistry I and Physical Chemistry Lab I (Mason Core)	
Supporting Science E	lectives	

Select a minimum	of 7 credits (not previously taken) from the following:	7-10
FRSC 325	Molecular Biology	
FRSC 326	Molecular Biology Laboratory	
FRSC 404	FRSC 404 Advanced Instrumentation in Forensic Chemistry	
FRSC 450	SC 450 Practical Forensic Skeletal Biology	
FRSC 470	Forensic Genomics	
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	
<u>BIOL 382</u>	Introduction to Virology	
<u>BIOL 385</u>	Biotechnology and Genetic Engineering	
<u>BIOL 401</u>	Phage Discovery	
BIOL 404	Medical Microbiology	
BIOL 405	Microbial Genetics	
<u>BIOL 407</u>	Microbial Diversity	
<u>BIOL 411</u>	Advanced General Genetics	
BIOL 412	Phage Genomics	
BIOL 417	Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing")	
BIOL 421	Genetics of Human Diseases	
BIOL 430	Advanced Human Anatomy and Physiology I	
BIOL 431	Advanced Human Anatomy and Physiology II	
BIOL 452	Immunology	
BIOL 453	Immunology Laboratory	
<u>BIOL 460</u>	<u>Infectious Diseases Wildlife</u>	
<u>BIOL 465</u>	<u>Histology</u>	
BIOL 482	Introduction to Molecular Genetics	
BIOL 483	General Biochemistry	

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BIOL 484	Cell Signaling and Disease
BIOL 485	Cell Signaling Laboratory
BIOL 486	Molecular Biology and Biotechnology Laboratory
<u>CHEM 321</u>	Quantitative Chemical Analysis
<u>CHEM 331</u>	Physical Chemistry I
<u>CHEM 336</u>	Physical Chemistry Lab I (Mason Core)
<u>CHEM 427</u>	Aquatic Environmental Chemistry
<u>CHEM 446</u>	Bioinorganic Chemistry
<u>CHEM 463</u>	General Biochemistry I
<u>CHEM 464</u>	General Biochemistry II
<u>CHEM 465</u>	Biochemistry Lab (Mason Core)
Total Credits	32-
	39

FRSC 304 Forensic Chemistry (Mason Core) will satisfy this major's writing-intensive requirement.

Concentration in Forensic Biology (FRBL)

Forensic Science Ex	xtended Core	
FRSC 303	Forensic Evidence and Ethics	3
FRSC 304 & FRSC 305	Forensic Chemistry (Mason Core) and Forensic Chemistry Laboratory ¹	4
FRSC 401	Crime Scene Investigations	3
FRSC 405	Independent Research Methods	3
or <u>FRSC 406</u>	Forensic Internship	
FRSC 460 & FRSC 461	Forensic DNA Analysis and Forensic DNA Analysis Laboratory	4
Required Concentr	ration Courses	
FRSC 325 & FRSC 326	Molecular Biology and Molecular Biology Laboratory	4
FRSC 470	Forensic Genomics	4
BIOL 483	General Biochemistry	4

Select a minimum of 3 credits from the following courses: 3-6	Supporting Science Courses		
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 382 Introduction to Virology BIOL 385 Biotechnology and Genetic Engineering BIOL 401 Phage Discovery BIOL 404 Medical Microbiology BIOL 405 Microbial Genetics BIOL 407 Microbial Diversity BIOL 407 Microbial Diversity BIOL 411 Advanced General Genetics BIOL 412 Phage Genomics BIOL 412 Phage Genomics BIOL 417 Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 431 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	Select a minimum o	f 3 credits from the following courses:	3-6
BINF 402 Bioinformatics and Computational Biology II BIOL 305 Biology of Microorganisms BIOL 306 Biology of Microorganisms Laboratory BIOL 382 Introduction to Virology BIOL 385 Biotechnology and Genetic Engineering BIOL 401 Phage Discovery BIOL 404 Medical Microbiology BIOL 405 Microbial Genetics BIOL 407 Microbial Diversity BIOL 411 Advanced General Genetics BIOL 412 Phage Genomics BIOL 412 Phage Genomics BIOL 417 Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	FRSC 450	Practical Forensic Skeletal Biology	
BIOL 305 Biology of Microorganisms BIOL 306 Biology of Microorganisms Laboratory BIOL 382 Introduction to Virology BIOL 385 Biotechnology and Genetic Engineering BIOL 401 Phage Discovery BIOL 404 Medical Microbiology BIOL 405 Microbial Genetics BIOL 407 Microbial Diversity BIOL 411 Advanced General Genetics BIOL 412 Phage Genomics BIOL 417 Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology I BIOL 452 Immunology BIOL 453 Inmunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BINF 401	Bioinformatics and Computational Biology I	
BIOL 306 Biology of Microorganisms Laboratory BIOL 382 Introduction to Virology BIOL 385 Biotechnology and Genetic Engineering BIOL 401 Phage Discovery BIOL 404 Medical Microbiology BIOL 405 Microbial Genetics BIOL 407 Microbial Diversity BIOL 411 Advanced General Genetics BIOL 412 Phage Genomics BIOL 417 Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BINF 402	Bioinformatics and Computational Biology II	
BIOL 382 Introduction to Virology BIOL 385 Biotechnology and Genetic Engineering BIOL 401 Phage Discovery BIOL 404 Medical Microbiology BIOL 405 Microbial Genetics BIOL 407 Microbial Diversity BIOL 411 Advanced General Genetics BIOL 412 Phage Genomics BIOL 417 Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 305	Biology of Microorganisms	
BIOL 385 Biotechnology and Genetic Engineering BIOL 401 Phage Discovery BIOL 404 Medical Microbiology BIOL 405 Microbial Genetics BIOL 407 Microbial Diversity BIOL 411 Advanced General Genetics BIOL 412 Phage Genomics BIOL 417 Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory Cell Signaling Laboratory BIOL 484 Cell Signaling Laboratory	BIOL 306	Biology of Microorganisms Laboratory	
BIOL 401 Phage Discovery BIOL 404 Medical Microbiology BIOL 405 Microbial Genetics BIOL 407 Microbial Diversity BIOL 411 Advanced General Genetics BIOL 412 Phage Genomics BIOL 417 Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease	BIOL 382	Introduction to Virology	
BIOL 404 Medical Microbiology BIOL 405 Microbial Genetics BIOL 407 Microbial Diversity BIOL 411 Advanced General Genetics BIOL 412 Phage Genomics BIOL 417 Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 385	Biotechnology and Genetic Engineering	
BIOL 405 Microbial Genetics BIOL 407 Microbial Diversity BIOL 411 Advanced General Genetics BIOL 412 Phage Genomics BIOL 417 Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 401	Phage Discovery	
BIOL 407 BIOL 411 Advanced General Genetics BIOL 412 Phage Genomics BIOL 417 Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 404	Medical Microbiology	
BIOL 411 Advanced General Genetics BIOL 412 Phage Genomics Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 405	Microbial Genetics	
BIOL 412 Phage Genomics BIOL 417 Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 407	Microbial Diversity	
BIOL 417 Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 411	Advanced General Genetics	
Sequencing") BIOL 421 Genetics of Human Diseases BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 412	Phage Genomics	
BIOL 430 Advanced Human Anatomy and Physiology I BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 417		
BIOL 431 Advanced Human Anatomy and Physiology II BIOL 452 Immunology BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 421	Genetics of Human Diseases	
BIOL 452 Immunology BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 430	Advanced Human Anatomy and Physiology I	
BIOL 453 Immunology Laboratory BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 431	Advanced Human Anatomy and Physiology II	
BIOL 460 Infectious Diseases Wildlife BIOL 465 Histology BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 452	Immunology	
BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 453	Immunology Laboratory	
BIOL 482 Introduction to Molecular Genetics BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 460	<u>Infectious Diseases Wildlife</u>	
BIOL 484 Cell Signaling and Disease BIOL 485 Cell Signaling Laboratory	BIOL 465	<u>Histology</u>	
BIOL 485 Cell Signaling Laboratory	BIOL 482	Introduction to Molecular Genetics	
	BIOL 484	Cell Signaling and Disease	
BIOL 486 Molecular Biology and Biotechnology Laboratory	BIOL 485	Cell Signaling Laboratory	
	<u>BIOL 486</u>	Molecular Biology and Biotechnology Laboratory	

Total Credits 32-

35

1 FRSC 304 Forensic Chemistry (Mason Core) will satisfy this major's writing-intensive requirement.

Concentration in Forensic Chemistry (FRCH)

FRSC 303	Forensic Evidence and Ethics	5
FRSC 304	Forensic Chemistry (Mason Core)	4
& <u>FRSC 305</u>	and Forensic Chemistry Laboratory ¹	
FRSC 401	Crime Scene Investigations	3
FRSC 405	Independent Research Methods	3
or FRSC 406	Forensic Internship	
FRSC 460	Forensic DNA Analysis	4
& <u>FRSC 461</u>	and Forensic DNA Analysis Laboratory	
Required Concent	ration Courses	
FRSC 404	Advanced Instrumentation in Forensic Chemistry	4
CHEM 321	Quantitative Chemical Analysis	4
MATH 114	Analytic Geometry and Calculus II	
Supporting Science	e Courses	
Select a minimum	of 7 credits from the following courses:	7-10
CHEM 331	Physical Chemistry I	
<u>CHEM 336</u>	Physical Chemistry Lab I (Mason Core)	
CHEM 332	Physical Chemistry II ²	
<u>CHEM 337</u>	Physical Chemistry Lab II	
CHEM 422	Instrumental Methods of Chemical Analysis ²	
CHEM 423	Instrumental Methods of Chemical Analysis Laboratory	
<u>CHEM 424</u>	Principles of Chemical Separation ²	
<u>CHEM 427</u>	Aquatic Environmental Chemistry	
<u>CHEM 441</u>	Properties and Bonding of Inorganic Compounds ²	
<u>CHEM 446</u>	Bioinorganic Chemistry	

<u>CHEM 463</u>	General Biochemistry I	
<u>CHEM 464</u>	General Biochemistry II	
<u>CHEM 465</u>	Biochemistry Lab (Mason Core)	
Total Credits		36-39

FRSC 304 Forensic Chemistry (Mason Core) will satisfy this major's writing-intensive requirement.

These course selections recommend the University Physics sequence: <u>PHYS 160</u> University Physics I (<u>Mason Core</u>), <u>PHYS 161</u> University Physics I Laboratory (<u>Mason Core</u>), <u>PHYS 260</u> University Physics II (<u>Mason Core</u>), <u>PHYS 261</u> University Physics II Laboratory (<u>Mason Core</u>)

Concentration in Interdisciplinary Forensic Science (FRIN)

Extended Forensi	c Science Core	
Select 6 credits (n	ot previously taken) of any 300-400 level FRSC courses	6
Required Concen	tration Courses or Minor	
Select a minimum minors:	of 15 credits (not previously taken) from the following courses or one of the following	15
Any 300-400 le	evel FRSC courses	
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 382	Introduction to Virology	
BIOL 385	Biotechnology and Genetic Engineering	
<u>BIOL 401</u>	Phage Discovery	
BIOL 404	Medical Microbiology	
BIOL 405	Microbial Genetics	
<u>BIOL 407</u>	Microbial Diversity	
BIOL 412	Phage Genomics	
<u>BIOL 411</u>	Advanced General Genetics	

BIOL 417	Selected Topics in Molecular and Cellular Biology (when the topic is "Illumina Sequencing")	
BIOL 421	Genetics of Human Diseases	
BIOL 430	Advanced Human Anatomy and Physiology I	
BIOL 431	Advanced Human Anatomy and Physiology II	
BIOL 452	Immunology	
BIOL 453	Immunology Laboratory	
BIOL 460	<u>Infectious Diseases Wildlife</u>	
BIOL 465	<u>Histology</u>	
BIOL 482	Introduction to Molecular Genetics	
BIOL 483	General Biochemistry	
BIOL 484	Cell Signaling and Disease	
BIOL 485	Cell Signaling Laboratory	
BIOL 486	Molecular Biology and Biotechnology Laboratory	
<u>CHEM 321</u>	Quantitative Chemical Analysis	
<u>CHEM 331</u>	Physical Chemistry I	
<u>CHEM 336</u>	Physical Chemistry Lab I (Mason Core)	
CHEM 427	Aquatic Environmental Chemistry	
<u>CHEM 446</u>	Bioinorganic Chemistry	
<u>CHEM 463</u>	General Biochemistry I	
<u>CHEM 464</u>	General Biochemistry II	
<u>CHEM 465</u>	Biochemistry Lab (Mason Core)	
Any minor offer	Any minor offered by the College of Science	
Anthropology M	Anthropology Minor	
<u>Bioengineering</u>	Bioengineering Minor	
Computer Scien	Computer Science Minor	
Data Analysis M	Data Analysis Minor	
Criminology, Lav	<u>w, and Society Minor</u>	
Forensic Psycho	Forensic Psychology Minor	

<u>Information Technology Minor</u>

Intelligence Studies Minor

International Security Minor

Legal Studies Minor

Photography Minor

Psychology Minor

Statistics Minor

Total Credits 21

Retroactive

Requirements

Updates:

Effective catalog years 2024-2025

Plan of Study:

Honors

Information:

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

Face-to-Face Only

primary delivery format for the program?

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 instructiona 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 No program?

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?

%wi_required.eschtml%

Key: 145