

Program Approval Form

For approval of new programs and deletions or modifications to an existing program.

Concentrati X Degree Requ X Admission S Other Chang College/School: Submitted by:	ALL that apply / approval requ on (Choose or uirements tandards/ Appl ges: Notes College of Scie Emily Rancourt	Please note: For students must be fully approved, en		Forensic Science Pr Email:	B.S. Minor e Certificate* tificate* celerated Master's Other: ogram erancour@gmu.edu tificate or concentration, the program	
For preparation of the Forensic Science Education Programs Accreditation Commission accreditation and to be better competitors with peer institutions.						
		Existing		New/Modified		
Program Title: (Required) Title must identify subject matter. Do not include name of college/school/dept.						
Concentration(s):						
Admissions Standards / Application Requirements: (Required only if different from those listed in the University Catalog)		Please see attached		Please see attached		
Degree Requirements: Consult University Catalog for models, attach separate document if necessary using track changes for modifications		Please see attached		Please see attached		
Courses offered via distance: (if applicable)						
TOTAL CREDITS REQUIRED:						
*For Certificates Only: Indicate whether students are able to pursue on a Full-time basis Part-time basis						
Approval Signatures						
Department Da		te College/School Date Provost's Off Required for Min		ce Date ors and Interdisciplinary Programs		
If this program may impact another unit or is in collaboration with another unit at Mason, the originating department must circulate this proposal for review by those units and obtain the necessary signatures prior to submission. Failure to do so will delay action on this proposal.						
Unit Name U		nit Approval Name	Unit Approver's Signature		Date	
For Undergraduate Programs only						
Undergraduate Council Member		Provost Office		Undergraduate Council Approval Date		
For Graduate P		Only				
Graduate Council Member		Provost Office		Grad	Graduate Council Approval Date	
For Registrar Office's Use Only: Receive		dBanner	BannerCatalog		revised 9/2/2016	

Program Proposal Submitted to the College of Science Curriculum Committee (COSCC)

The form above is processed by the Office of the University Registrar. This second page is for the COSCC's reference. Please complete the applicable portions of this page to clearly communicate what the form above is requesting.

FOR ALL PROGRAMS (required)

Program Title: Forensic Science Program

Date of Departmental Approval: October 25th, 2016

FOR MODIFIED PROGRAMS (required if modifying a program)

- Summary of the Modification: The Master's of Science in Forensic Science degree needed to make the following modifications: flexibility for the students to choose elective courses to suit their career paths within the Crime Scene Investigation concentration, an option to choose from Physical Evidence Analysis OR Fingerprint Identification as a core course for the Forensic Biology and Forensic Chemistry concentrations, a section was added under Admission Requirements to inform students that they must successfully pass a criminal background check in order to have access to FRSC 541 and FRSC 561 Lab courses, a note was added to the FRSC 560 Forensic DNA Sciences course to inform the students of recommended pre-requisites, and the FRSC 790 Forensic Internship course was increased to 1-6 credits.
- Text before Modification (title, degree requirements, etc.): See Attached
- Text after Modification (title, degree requirements, etc.): See Attached
- Reason for the Modification: While our initial program change that recently took place to add concentrations to the degree were necessary for the Forensic Educational Programs Accreditation Commission (FEPAC) accreditation through the American Academy of Forensic Science (AAFS), the Crime Scene Investigation concentration will not be governed by these rules. The CSI concentration will admit Bachelor of Arts, as well as, Bachelor of Science students to the program, and will therefore not be FEPAC accredited. For this reason, we would like to make the CSI concentration more flexible by allowing the students a greater breadth of choice when it comes to picking elective courses. This flexibility will allow our students to tailor their electives toward their desired career path.

For the Forensic Biology and Forensic Chemistry concentrations we wanted to give the students the option of taking either FRSC 512 Physical Evidence Analysis OR FRSC 630 Fingerprint Identification which will both satisfy the FEPAC accreditation requirement.

It has recently come to our attention that some students do not have the pre-requisite knowledge needed to successfully complete FRSC 560 Forensic DNA Sciences. Therefore, we have added a note to inform students what topics they should be knowledgeable in prior to taking the course.

With our program credit requirements recently increased to 36 credits, we wanted to allow our students the ability to complete two 3 credit internships if they have the ability to do so. Most forensic science internships require the student to be enrolled in the course, and therefore we feel it will benefit the student to have more than one internship opportunity if at all possible.

Forensic Science Program Graduate Modifications for Fall 2017

<u>Admissions Requirement Changes (changes are indicated in red)</u>

Current Proposed

Banner Code: SC-MS-FRSCCollege: College of Science

Department: Forensic Science Program

The interdisciplinary master's program is designed to train students in the technical and legal aspects of the field, and it is especially relevant for the many area professionals holding positions in government and private laboratories specializing in the analytical investigation of criminal and terrorist activities. Graduates will be qualified to work in high-technology forensics laboratories that analyze and interpret a wide variety of evidence and data in support of investigations and prosecutions. The demand for graduates with these skills is especially strong in the Northern Virginia region, where several new FBI and police forensics labs are being built or expanded.

Available concentrations include:

Crime Scene Investigation

Forensic Biology Analysis

Forensic Chemistry Analysis

Forensic/Biometric Identity Analysis

Students enrolled in this professional MS program are charged at a differential (premium) tuition rate, and therefore they may not enroll concurrently in any other graduate degree program or certificate program offered by the College of Science, with the exception of the Forensics Graduate Certificate.

Admission Requirements

Applicants to all graduate programs at George Mason University must meet the admission standards and application requirements for graduate study as specified in the Graduate Admission Policies section of this catalog. Applicants should submit a completed Mason Graduate Application, three letters of recommendation, two copies of official transcripts from each institution of higher learning attended, a current resume, a Virginia Domicile Classification form, and an official report of TOEFL scores (foreign nationals only). Additionally:

Forensic Biology Analysis and Forensic Chemistry
Analysis Concentrations: A bachelor of science degree

Banner Code: SC-MS-FRSCCollege: College of Science

Department: Forensic Science Program

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Forensic Biology Analysis

Forensic Chemistry Analysis

Forensic/Biometric Identity Analysis

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Forensic Biology Analysis and Forensic Chemistry Analysis Concentrations: A bachelor's degree in a

in a forensic or natural science, computer science, computer electronic or electrical engineering, information systems, or information technology (or its equivalent coursework in a relevant field).

Forensic/Biometric Identity Analysis Concentration: A bachelor of science or bachelor of arts degree in a forensic or natural science, computer science, computer electronic or electrical engineering, information systems or information technology (or its equivalent coursework in a relevant field).

Crime Scene Investigation Concentration: A bachelor of science or bachelor of arts degree in a related field.

Degree Requirements

Students must declare their intended concentration upon application. In the event that a student wishes to change their concentration, students may request to change their concentration by submitting a letter to the Forensic Science Program Director detailing the request and justification. These requests will be considered on a case-by-case basis and only when the appropriate admissions requirements are met. However, if a student chooses to change concentrations, course substitutions/waivers will not be accepted.

forensic or natural science

Forensic/Biometric Identity Analysis Concentration: A bachelor of science or bachelor of arts degree in a forensic or natural science, computer science, computer electronic or electrical engineering, information systems or information technology (or its equivalent coursework in a relevant field).

Crime Scene Investigation Concentration: A bachelor of science or bachelor of arts degree in a related field.

Criminal Background Check

The successful passing of a Virginia Department of Forensic Sciences background check is required prior to gaining access to FRSC 541 Forensic Chemistry Laboratory and FRSC 561 Forensic DNA Laboratory.

FRSC 560 Forensic DNA Sciences Course Note

Students shall have completed undergraduate coursework in molecular and/or cell biology, as well as, genetics prior to taking this course or permission of instructor.

Degree Requirements

Students must declare their intended concentration upon application. In the event that a student wishes to change their concentration, students may request to change their concentration by submitting a letter to the Forensic Science Program Director detailing the request and justification. These requests will be considered on a case-by-case basis and only when the appropriate admissions requirements are met. However, if a student chooses to change concentrations, course substitutions/waivers will not be accepted.

▲ Concentration in Crime Scene Investigation (CSIN)

This concentration educates students for a career as a crime scene investigator.

Core Courses (29 credits)

- FRSC 500 Introduction to Forensic Science Credits: 3
- FRSC 510 Basic Crime Analysis Credits: 3
- FRSC 511 Advanced Crime Scene Analysis Credits: 3
- FRSC 513 Forensic Photography Credits: 3
- FRSC 530 Law and Forensic Science Credits: 3
- FRSC 570 Introduction to Biochemical Forensics

▲ Concentration in Crime Scene Investigation (CSIN)

This concentration educates students for a career as a crime scene investigator.

Core Courses (20 credits)

- FRSC 500 Introduction to Forensic Science Credits: 3
- FRSC 510 Basic Crime Analysis Credits: 3
- FRSC 511 Advanced Crime Scene Analysis Credits: 3
- FRSC 530 Law and Forensic Science Credits: 3
- FRSC 570 Introduction to Biochemical Forensics Credits: 3

- Credits: 3
- FRSC 590 Medicolegal Death Investigation and Pathology Credits: 3
- FRSC 600 Forensics Seminar Credits: 1
- FRSC 610 Forensics Research Project Credits: 1-4 (4 credits required)
- FRSC 690 Forensics Capstone Course Credits: 3

Elective Courses (7 credits)

Choose 7 credits from the following courses:

- FRSC 512 Physical Evidence Analysis Credits: 3
- FRSC 515 Selected Topics in Forensic Science Credits: 3
- FRSC 517 Questioned Document Examination Credits: 3
- FRSC 520 Toxicology Credits: 3
- FRSC 540 Forensic Chemistry Credits: 3 and FRSC 541 - Forensic Chemistry Laboratory Credits: 1
- FRSC 550 Issues in Forensic Anthropology Credits: 3
- FRSC 560 Forensic DNA Sciences Credits: 3 and FRSC 561 - Forensic DNA Laboratory Credits: 1
- FRSC 580 Image Analysis in Forensic Science Credits: 3
- FRSC 600 Forensics Seminar Credits: 1
- FRSC 620 Face and Biometric Pattern Analysis Credits: 3
- FRSC 630 Fingerprint Identification Credits: 3
- FRSC 640 Legal, Privacy and Ethical Issues in Identity Analysis Credits: 3
- FRSC 650 Identity Analysis Applications Credits:
 1
- FRSC 790 Internship in Forensic Science Credits: 1-3

▲ Concentration in Forensic Biology Analysis (FRSB)

This concentration educates students for a career as a forensic biology laboratory analyst.

Core Courses (27 credits)

- FRSC 500 Introduction to Forensic Science Credits: 3
- FRSC 510 Basic Crime Analysis Credits: 3
- FRSC 512 Physical Evidence Analysis Credits: 3
- FRSC 530 Law and Forensic Science Credits: 3
- FRSC 540 Forensic Chemistry Credits: 3
- FRSC 560 Forensic DNA Sciences Credits: 3 and FRSC 561 - Forensic DNA Laboratory Credits: 1
- FRSC 570 Introduction to Biochemical Forensics Credits: 3

- FRSC 600 Forensics Seminar Credits: 1
- FRSC 610 Forensics Research Project Credits: 1-4 (4 credits required)

Elective Courses (16 credits)

Choose 16 credits from the following courses:

- FRSC 512 Physical Evidence Analysis Credits: 3
- FRSC 513 Forensic Photography Credits: 3
- FRSC 515 Selected Topics in Forensic Science Credits: 3
- FRSC 517 Questioned Document Examination Credits: 3
- FRSC 520 Toxicology Credits: 3
- FRSC 540 Forensic Chemistry Credits: 3 and FRSC 541 - Forensic Chemistry Laboratory Credits: 1
- FRSC 550 Issues in Forensic Anthropology Credits: 3
- FRSC 560 Forensic DNA Sciences Credits: 3 and FRSC 561 - Forensic DNA Laboratory Credits: 1
- FRSC 580 Image Analysis in Forensic Science Credits: 3
- FRSC 590 Medicolegal Death Investigation and Pathology Credits: 3
- FRSC 600 Forensics Seminar Credits: 1
- FRSC 620 Face and Biometric Pattern Analysis Credits: 3
- FRSC 630 Fingerprint Identification Credits: 3
- FRSC 640 Legal, Privacy and Ethical Issues in Identity Analysis Credits: 3
- FRSC 650 Identity Analysis Applications Credits:
 1
- FRSC 690 Forensics Capstone Course Credits: 3
- FRSC 790 Internship in Forensic Science Credits: 1-6

▲ Concentration in Forensic Biology Analysis (FRSB)

This concentration educates students for a career as a forensic biology laboratory analyst.

Core Courses (27 credits)

- FRSC 500 Introduction to Forensic Science Credits: 3
- FRSC 510 Basic Crime Analysis Credits: 3
- FRSC 512 Physical Evidence Analysis Credits: 3
 OR FRSC 630 Fingerprint Identification
- FRSC 530 Law and Forensic Science Credits: 3
- FRSC 540 Forensic Chemistry Credits: 3
- FRSC 560 Forensic DNA Sciences Credits: 3 and
 FRSC 561 Forensic DNA Laboratory Credits: 1
- FRSC 570 Introduction to Biochemical Forensics

- FRSC 600 Forensics Seminar Credits: 1
- FRSC 610 Forensics Research Project Credits: 1-4 (4 credits required)

Elective Courses (9 credits)

Choose 9 credits from the following courses:

- FRSC 511 Advanced Crime Scene Analysis Credits: 3
- FRSC 515 Selected Topics in Forensic Science Credits: 3
- FRSC 517 Questioned Document Examination Credits: 3
- FRSC 550 Issues in Forensic Anthropology Credits: 3
- FRSC 580 Image Analysis in Forensic Science Credits: 3
- FRSC 590 Medicolegal Death Investigation and Pathology Credits: 3
- FRSC 600 Forensics Seminar Credits: 1
- FRSC 620 Face and Biometric Pattern Analysis Credits: 3
- FRSC 630 Fingerprint Identification Credits: 3
- FRSC 640 Legal, Privacy and Ethical Issues in Identity Analysis Credits: 3
- FRSC 650 Identity Analysis Applications Credits:
 1
- FRSC 690 Forensics Capstone Course Credits: 3
- FRSC 790 Internship in Forensic Science Credits: 1-3
- BIOL 574 Population Genetics Credits: 4
- CHEM 563 General Biochemistry I Credits: 4

▲ Concentration in Forensic Chemistry Analysis (FRCA)

This concentration educates students for a career as a forensic chemistry laboratory analyst.

Core Courses (30 credits)

- FRSC 500 Introduction to Forensic Science Credits: 3
- FRSC 510 Basic Crime Analysis Credits: 3
- FRSC 512 Physical Evidence Analysis Credits: 3
- FRSC 520 Toxicology Credits: 3
- FRSC 530 Law and Forensic Science Credits: 3
- FRSC 540 Forensic Chemistry Credits: 3 and FRSC 541 - Forensic Chemistry Laboratory Credits: 1
- FRSC 560 Forensic DNA Sciences Credits: 3
- FRSC 570 Introduction to Biochemical Forensics Credits: 3
- FRSC 600 Forensics Seminar Credits: 1

Credits: 3

- FRSC 600 Forensics Seminar Credits: 1
- FRSC 610 Forensics Research Project Credits: 1-4 (4 credits required)

Elective Courses (9 credits)

Choose 9 credits from the following courses:

- FRSC 511 Advanced Crime Scene Analysis Credits: 3
- FRSC 512 Physical Evidence Analysis Credits: 3
- FRSC 515 Selected Topics in Forensic Science Credits: 3
- FRSC 517 Questioned Document Examination Credits: 3
- FRSC 550 Issues in Forensic Anthropology Credits: 3
- FRSC 580 Image Analysis in Forensic Science Credits: 3
- FRSC 590 Medicolegal Death Investigation and Pathology Credits: 3
- FRSC 600 Forensics Seminar Credits: 1
- FRSC 620 Face and Biometric Pattern Analysis Credits: 3
- FRSC 630 Fingerprint Identification Credits: 3
- FRSC 640 Legal, Privacy and Ethical Issues in Identity Analysis Credits: 3
- FRSC 650 Identity Analysis Applications Credits:
- FRSC 690 Forensics Capstone Course Credits: 3
- FRSC 790 Internship in Forensic Science Credits: 1-6
- BIOL 574 Population Genetics Credits: 4
- CHEM 563 General Biochemistry I Credits: 4

▲ Concentration in Forensic Chemistry Analysis (FRCA)

This concentration educates students for a career as a forensic chemistry laboratory analyst.

Core Courses (30 credits)

- FRSC 500 Introduction to Forensic Science Credits: 3
- FRSC 510 Basic Crime Analysis Credits: 3
- FRSC 512 Physical Evidence Analysis Credits: 3
 OR FRSC 630 Fingerprint Identification
- FRSC 520 Toxicology Credits: 3
- FRSC 530 Law and Forensic Science Credits: 3
- FRSC 540 Forensic Chemistry Credits: 3 and FRSC 541 - Forensic Chemistry Laboratory Credits: 1
- FRSC 560 Forensic DNA Sciences Credits: 3

 FRSC 610 - Forensics Research Project Credits: 1-4 (4 credits required)

Elective Courses (6 credits)

Choose 6 credits from the following courses:

- FRSC 511 Advanced Crime Scene Analysis Credits: 3
- FRSC 515 Selected Topics in Forensic Science Credits: 3
- FRSC 517 Questioned Document Examination Credits: 3
- FRSC 550 Issues in Forensic Anthropology Credits: 3
- FRSC 580 Image Analysis in Forensic Science Credits: 3
- FRSC 590 Medicolegal Death Investigation and Pathology Credits: 3
- FRSC 600 Forensics Seminar Credits: 1
- FRSC 620 Face and Biometric Pattern Analysis Credits: 3
- FRSC 630 Fingerprint Identification Credits: 3
- FRSC 640 Legal, Privacy and Ethical Issues in Identity Analysis Credits: 3
- FRSC 650 Identity Analysis Applications Credits:
 1
- FRSC 690 Forensics Capstone Course Credits: 3
- FRSC 790 Internship in Forensic Science Credits: 1-3
- CHEM 563 General Biochemistry I Credits: 4
- CHEM 564 General Biochemistry II Credits: 3
- CHEM 624 Principles of Chemical Separation Credits: 3

▲ Concentration in Forensic/Biometric Identity Analysis (FRBI)

This concentration educates students for a career as an identity intelligence analyst.

Core Courses (33 credits)

- FRSC 500 Introduction to Forensic Science Credits: 3
- FRSC 510 Basic Crime Analysis Credits: 3
- FRSC 530 Law and Forensic Science Credits: 3
- FRSC 560 Forensic DNA Sciences Credits: 3
- FRSC 600 Forensics Seminar Credits: 1
- FRSC 610 Forensics Research Project Credits: 1-4 (4 credits required)
- FRSC 620 Face and Biometric Pattern Analysis Credits: 3
- FRSC 630 Fingerprint Identification Credits: 3
- FRSC 640 Legal, Privacy and Ethical Issues in

- FRSC 570 Introduction to Biochemical Forensics Credits: 3
- FRSC 600 Forensics Seminar Credits: 1
- FRSC 610 Forensics Research Project Credits: 1-4 (4 credits required)

Elective Courses (6 credits)

Choose 6 credits from the following courses:

- FRSC 511 Advanced Crime Scene Analysis Credits: 3
- FRSC 512 Physical Evidence Analysis Credits: 3
- FRSC 515 Selected Topics in Forensic Science Credits: 3
- FRSC 517 Questioned Document Examination Credits: 3
- FRSC 550 Issues in Forensic Anthropology Credits: 3
- FRSC 580 Image Analysis in Forensic Science Credits: 3
- FRSC 590 Medicolegal Death Investigation and Pathology Credits: 3
- FRSC 600 Forensics Seminar Credits: 1
- FRSC 620 Face and Biometric Pattern Analysis Credits: 3
- FRSC 630 Fingerprint Identification Credits: 3
- FRSC 640 Legal, Privacy and Ethical Issues in Identity Analysis Credits: 3
- FRSC 650 Identity Analysis Applications Credits:
- FRSC 690 Forensics Capstone Course Credits: 3
- FRSC 790 Internship in Forensic Science Credits: 1-6
- CHEM 563 General Biochemistry I Credits: 4
- CHEM 564 General Biochemistry II Credits: 3
- CHEM 624 Principles of Chemical Separation Credits: 3

▲ Concentration in Forensic/Biometric Identity Analysis (FRBI)

This concentration educates students for a career as an identity intelligence analyst.

Core Courses (33 credits)

- FRSC 500 Introduction to Forensic Science Credits: 3
- FRSC 510 Basic Crime Analysis Credits: 3
- FRSC 530 Law and Forensic Science Credits: 3
- FRSC 560 Forensic DNA Sciences Credits: 3
- FRSC 600 Forensics Seminar Credits: 1
- FRSC 610 Forensics Research Project Credits: 1-4 (4 credits required)

- **Identity Analysis Credits: 3**
- FRSC 650 Identity Analysis Applications Credits:
- AIT 675 Overview of the National Intelligence Community Credits: 3
- AIT 678 National Security Challenges Credits: 3

Elective Courses (3 credits)

Choose 3 credits from the following courses:

- FRSC 511 Advanced Crime Scene Analysis Credits: 3
- FRSC 512 Physical Evidence Analysis Credits: 3
- FRSC 513 Forensic Photography Credits: 3
- FRSC 515 Selected Topics in Forensic Science Credits: 3
- FRSC 517 Questioned Document Examination
- FRSC 550 Issues in Forensic Anthropology Credits: 3
- FRSC 570 Introduction to Biochemical Forensics Credits: 3
- FRSC 590 Medicolegal Death Investigation and Pathology Credits: 3
- FRSC 690 Forensics Capstone Course Credits: 3
- FRSC 790 Internship in Forensic Science Credits: 1-3

Degree Total: 36 credits

- FRSC 620 Face and Biometric Pattern Analysis Credits: 3
- FRSC 630 Fingerprint Identification Credits: 3
- FRSC 640 Legal, Privacy and Ethical Issues in **Identity Analysis Credits: 3**
- FRSC 650 Identity Analysis Applications Credits:
- AIT 675 Overview of the National Intelligence Community Credits: 3
- AIT 678 National Security Challenges Credits: 3

Elective Courses (3 credits)

Choose 3 credits from the following courses:

- FRSC 511 Advanced Crime Scene Analysis Credits: 3
- FRSC 512 Physical Evidence Analysis Credits: 3
- FRSC 513 Forensic Photography Credits: 3
- FRSC 515 Selected Topics in Forensic Science Credits: 3
- FRSC 517 Questioned Document Examination Credits: 3
- FRSC 550 Issues in Forensic Anthropology Credits: 3
- FRSC 570 Introduction to Biochemical Forensics Credits: 3
- FRSC 590 Medicolegal Death Investigation and Pathology Credits: 3
- FRSC 690 Forensics Capstone Course Credits: 3
- FRSC 790 Internship in Forensic Science Credits: 1-6

Degree Total: 36 credits