FORENSIC SCIENCE, MS

Banner Code: SC-MS-FRSC

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Fairfax Campus
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Email: erancour@gmu.edu
Website: cos.gmu.edu/forensic-science/

The Forensic Science Program offers a master's degree in Forensic Science with four concentrations to best suit the student’s future career goals: Crime Scene Investigation, Forensic Biology Analysis, Forensic Chemistry Analysis, and Forensic/Biometric Identity Analysis. This graduate degree will prepare students for a rewarding career in federal, state and local laboratories, investigative or intelligence agencies, private companies, or allow professionals currently working in the field an opportunity to improve their education and optimize career advancement.

Located in Northern Virginia within the Washington DC Metro area, our students are afforded the opportunity to study in close proximity to a plethora of federal, state and local crime laboratories, investigative and intelligence agencies. These facilities provide unique access to forensic science experts and offer students competitive internships and job opportunities.

Available concentrations include:

- Crime Scene Investigation
- Forensic Biology Analysis
- Forensic Chemistry Analysis
- Forensic/Biometric Identity Analysis

Admissions & Policies

Admissions

University-wide admissions policies can be found in the Graduate Admissions Policies section of this catalog.

To apply for this program, please complete the George Mason University Admissions Application (https://www2.gmu.edu/admissions-aid/apply-now).

Applicants should submit a completed George Mason University Admissions Application (https://www2.gmu.edu/admissions-aid/apply-now), 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's degree in a 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.

Policies

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

Premium Tuition

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.

Concentration Declaration

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.

Criminal Background Check

The successful passing of a Virginia Department of Forensic Sciences (http://www.dfs.virginia.gov) background check is required prior to gaining access to FRSC 541 Forensic Chemistry Laboratory and FRSC 561 Forensic DNA Laboratory.

FRSC 560 Forensic Science DNA Sciences Course Note

Students shall have completed undergraduate coursework in molecular and/or cell biology, as well as genetics, or students must obtain permission of the instructor prior to taking FRSC 560 Forensic DNA Sciences.

Requirements

Degree Requirements

Total credits: 36

Students should refer to the Admissions & Policies tab for specific policies related to this program.

Select one concentration from the following:

Concentration in Crime Scene Investigation (CSIN)

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

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.

Core Courses
FRSC 500  Introduction to Forensic Science  3
FRSC 510  Basic Crime Analysis  3
FRSC 511  Advanced Crime Scene Analysis  3
FRSC 530  Law and Forensic Science  3
FRSC 570  Introduction to Biochemical Forensics  3
FRSC 600  Forensics Seminar  1
FRSC 610  Forensics Research Project  4

Electives
Select 16 credits from the following courses:  16
  FRSC 512  Physical Evidence Analysis
  FRSC 513  Forensic Photography
  FRSC 515  Selected Topics in Forensic Science
  FRSC 517  Questioned Document Examination
  FRSC 520  Toxicology
  FRSC 540  Forensic Chemistry
  & FRSC 541  Forensic Chemistry Laboratory
  FRSC 550  Issues in Forensic Anthropology
  FRSC 560  Forensic DNA Sciences
  & FRSC 561  Forensic DNA Laboratory
  FRSC 570  Introduction to Biochemical Forensics
  FRSC 600  Forensics Seminar
  FRSC 610  Forensics Research Project  4

Total Credits  36

Concentration in Forensic Biology Analysis (FRSB)
This concentration educates students for a career as a forensic biology laboratory analyst.

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

Core Courses
FRSC 500  Introduction to Forensic Science  3
FRSC 510  Basic Crime Analysis  3
FRSC 511  Advanced Crime Scene Analysis  3
FRSC 530  Law and Forensic Science  3
FRSC 540  Forensic Chemistry  3
FRSC 560  Forensic DNA Sciences
  & FRSC 561  Forensic DNA Laboratory  4
FRSC 570  Introduction to Biochemical Forensics  3
FRSC 600  Forensics Seminar  1
FRSC 610  Forensics Research Project  4

Electives
Select 9 credits from the following courses:  9
  FRSC 512  Physical Evidence Analysis
  FRSC 515  Selected Topics in Forensic Science
  FRSC 517  Questioned Document Examination
  FRSC 550  Issues in Forensic Anthropology
  FRSC 580  Image Analysis in Forensic Science
  FRSC 590  Medicolegal Death Investigation and Pathology
  FRSC 600  Forensics Seminar
  FRSC 620  Face and Biometric Pattern Analysis
  FRSC 630  Fingerprint Identification
  FRSC 640  Legal, Privacy and Ethical Issues in Identity Analysis
  FRSC 650  Identity Analysis Applications
  FRSC 690  Forensics Capstone Course
  FRSC 790  Internship in Forensic Science (Credits: 1-6)
  BIOL 574  Population Genetics
  CHEM 563  General Biochemistry I

Total Credits  36

Concentration in Forensic Chemistry Analysis (FRCA)
This concentration educates students for a career as a forensic chemistry laboratory analyst.

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

Core Courses
FRSC 500  Introduction to Forensic Science  3
FRSC 510  Basic Crime Analysis  3
FRSC 512  Physical Evidence Analysis  3
  or FRSC 630  Fingerprint Identification
FRSC 520  Toxicology  3
FRSC 530  Law and Forensic Science  3
FRSC 540  Forensic Chemistry
  & FRSC 541  Forensic Chemistry Laboratory  4
FRSC 560  Forensic DNA Sciences  3
FRSC 570  Introduction to Biochemical Forensics  3
FRSC 600  Forensics Seminar  1
FRSC 610  Forensics Research Project  4

Electives
Select 6 credits from the following courses:  6
  FRSC 511  Advanced Crime Scene Analysis
  FRSC 515  Selected Topics in Forensic Science
  FRSC 517  Questioned Document Examination
  FRSC 550  Issues in Forensic Anthropology
  FRSC 580  Image Analysis in Forensic Science
  FRSC 590  Medicolegal Death Investigation and Pathology
  FRSC 600  Forensics Seminar
  FRSC 620  Face and Biometric Pattern Analysis
  FRSC 630  Fingerprint Identification

Total Credits  36
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<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>FRSC 640</td>
<td>Legal, Privacy and Ethical Issues in Identity Analysis</td>
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<tr>
<td>FRSC 650</td>
<td>Identity Analysis Applications</td>
<td>3</td>
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<tr>
<td>FRSC 690</td>
<td>Forensics Capstone Course</td>
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<td>FRSC 790</td>
<td>Internship in Forensic Science (Credits: 1-6)</td>
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<tr>
<td>CHEM 563</td>
<td>General Biochemistry I</td>
<td>3</td>
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<tr>
<td>CHEM 564</td>
<td>General Biochemistry II</td>
<td>3</td>
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<tr>
<td>CHEM 624</td>
<td>Principles of Chemical Separation</td>
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**Concentration in Forensic/Biometric Identity Analysis (FRBI)**

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

**Core Courses**

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<td>FRSC 650</td>
<td>Identity Analysis Applications</td>
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<td>AIT 675</td>
<td>Overview of the National Intelligence Community</td>
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<td>AIT 678</td>
<td>National Security Challenges</td>
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**Electives**

Select 3 credits from the following courses: 3

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<td>Selected Topics in Forensic Science</td>
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