



Program Approval Form

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

Action Requested:

☐ Create New (SCHEV approval required except for minors)

☐ Inactivate Existing

☒ Modify Existing (check **ALL** that apply)

☐ Title (SCHEV approval required except for minors)

☒ **Concentration** (Choose one): ☒ Add ☐ Delete ☐ Modify

☐ Degree Requirements

☒ Admission Standards/ Application Requirements

☐ Other Changes: _____

Type (Check one):

☐ B.A. ☐ B.S. ☐ Minor (req. C3 approval)

☐ M.A. ☒ M.S. ☐ M.Ed.

☐ Ph.D.

☐ Undergraduate Certificate* (req. C3 approval)

☐ Graduate Certificate*

☐ Bachelor's/Accelerated Master's ☐ Other: _____

College/School:

College of Science

Submitted by:

Joseph DiZinno

Department:

Forensic Science Program

Ext:

3-4985

Email:

Jdizinn2@gmu.edu

Effective Term:

Fall

2016

Please note: For students to be admitted to a new degree, minor, certificate or concentration, the program must be fully approved, entered into Banner, and published in the University Catalog.

Justification: (attach separate document if necessary)

Adding concentrations to the MS degree and related admissions requirements. Modifying elective options.

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)

Degree Requirements:

Consult University Catalog for models, attach separate document if necessary using track changes for modifications

Courses offered via distance:

(if applicable)

TOTAL CREDITS REQUIRED:

Existing	New/Modified
Forensic Science, MS	
None	Crime Scene Investigation Forensic Biology Analysis Forensic Chemistry Analysis Forensic/Biometric Identity Analysis
BA or BS degree in a related field	Forensic Biology Analysis and Forensic Chemistry Analysis Concentrations, a Bachelor's of Science 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). Forensic/Biometric Identity Analysis Concentration, a Bachelor's of Science or Bachelor's 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: BA or BS degree in a related field.
1. Forensics Electives (12 credits) options including SOCI 607 and BIOL 510	1. Forensics Electives (12 credits) excluding SOCI 607 and BIOL 510 as options 2. See details on each concentration in the attached pages below.
33 credits	36 credits

*For Certificates Only: Indicate whether students are able to pursue on a

☐ Full-time basis

☐ Part-time basis

Approval Signatures

Department

Date

College/School

Date

Provost's Office

Date

Required for Minors 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	Unit Approval Name	Unit Approver's Signature	Date
-----------	--------------------	---------------------------	------

For Minors and UG Certificates only (Cross-College Curriculum Committee Approval)

C3 Committee Member

Provost Office

C3 Committee Approval Date

For Graduate Programs Only

Graduate Council Member

Provost Office

Graduate Council Approval Date

For Registrar Office's Use Only: Received _____ Banner _____ Catalog _____ revised 7/1/15

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, MS

Date of Departmental Approval: 11/23/15

FOR INACTIVATED PROGRAMS (required if inactivating a program)

- Reason for Inactivation:

FOR MODIFIED PROGRAMS (required if modifying a program)

- Summary of the Modification: Adding concentrations to the MS degree. Students must choose a concentration upon admission into the program.
- Text before Modification (title, degree requirements, etc.): Concentrations weren't available.
- Text after Modification (title, degree requirements, etc.): See details on each concentration in the attached pages below.
- Reason for the Modification: As the Forensic Science MS is currently configured, all graduate students are required to take 17 credit hours of the same core courses, 12 credit hours of various elective courses and all MS students must complete a 4.0 credit hour research project. The students who have been and continue to be enrolled in the Forensic Science MS Program have a wide range of undergraduate degrees ranging from criminology (with no/few basic science courses) to undergraduate biology and chemistry majors.

In addition to the wide range of undergraduate degrees possessed by the students enrolled in the Forensic Science MS program, the career goals of the MS students also vary widely. Many of the MS students without an undergraduate degree in one of the basic sciences wish to pursue a career as a law enforcement officer or a crime scene investigator. The students in the Forensic Science MS degree program with undergraduate degrees in a basic science mainly wish to pursue a career working in a crime laboratory as a scientific analyst. In addition, there is a growing need in the law enforcement, defense and homeland security agencies for individuals who have been trained to analyze forensic/biometric data from fingerprints, DNA and photos/videos and provide the identification of an individual based upon their analysis of the forensic/biometric data.

Therefore, in order to appropriately build upon the varied undergraduate degrees of the students enrolled in the Forensic Science MS program, better prepare them for work in their desired career and address the emerging need in the law enforcement, defense and homeland security agencies

for individuals who have been trained in forensic/biometric identity analysis, it is necessary to create four separate concentrations in the Forensic Science MS Program. The four program concentrations are listed below:

- Crime Scene Investigation
 - Forensic Biology Analysis
 - Forensic Chemistry Analysis
 - Forensic/Biometric Identity Analysis
- Finally, the GMU Forensic Science Program will be submitting an application for accreditation with the Forensic Science Education Programs Accreditation Commission (FEPAC). The changes included in the newly-created concentrations for Forensic Science MS Program will facilitate attaining FEPAC accreditation.
-

GMU Masters of Forensic Science Core Course Concentrations

Required Pre-Requisites:

- For the Forensic Biology Analysis and Forensic Chemistry Analysis Concentrations, a Bachelor's of Science 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).
- For the Forensic/Biometric Identity Analysis Concentration, a Bachelor's of Science or Bachelor's 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).
- For the Crime Scene Investigation Concentration, a Bachelors' of Science or Bachelor's of Arts Degree in a related field.

Concentration Selection: (Courses listed in red below are new courses)

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.

	Original Program	Crime Scene Investigation Education for a career as a Crime Scene Investigator	Forensic Biology Analysis Education for a career as a Forensic Biology Laboratory Analyst	Forensic Chemistry Analysis Education for a career as a Forensic Chemistry Laboratory Analyst	Forensic/Biometric Identity Analysis Education for a career as an Identity Intelligence Analyst
Core Courses	FRSC 500 -Introduction to Forensic Science Credits: 3	FRSC 500 -Introduction to Forensic Science Credits: 3	FRSC 500 - Introduction to Forensic Science Credits: 3	FRSC 500 - Introduction to Forensic Science Credits: 3	FRSC 500 - Introduction to Forensic Science Credits: 3
	FRSC 510 - Basic Crime Analysis Credits: 3	FRSC 510 - Basic Crime Analysis Credits: 3	FRSC 510 - Basic Crime Analysis Credits: 3	FRSC 510 - Basic Crime Analysis Credits: 3	FRSC 510 - Basic Crime Analysis Credits: 3
	FRSC 530 – Law and Forensic Science Credits: 3	FRSC 511 - Advanced Crime Scene Analysis Credits: 3	FRSC 512 - Physical Evidence Analysis Credits: 3	FRSC 512 - Physical Evidence Analysis Credits: 3	FRSC 530 – Law and Forensic Science Credits: 3
	FRSC 570 - Introduction to Biochemical Forensics	FRSC 530 – Law and Forensic Science Credits:	FRSC 530 – Law and Forensic Science Credits:	FRSC 530 – Law and Forensic Science Credits:	FRSC 560 - Forensic DNA Sciences Credits: 3

	<p>Credits: 3 Or FRSC 540 - Forensic Chemistry Credits: 3</p> <p>FRSC 600 - Forensic Seminar Credits: 1 (taken 2 times)</p> <p>FRSC 690 - Forensic Capstone Course Credits: 3</p> <p>FRSC 610 - Forensic Research Project Credits: 1-3 (4 Total)</p>	<p>3</p> <p>FRSC 513 - Forensic Photography Credits: 3</p> <p>FRSC 570 - Introduction to Biochemical Forensics Credits: 3</p> <p>FRSC 600 – Forensic Seminar Credits: 1</p> <p>FRSC 690 - Forensic Capstone Course Credits: 3</p> <p>FRSC 610 - Forensic Research Project Credits: 1-3 (4 Total)</p> <p>FRSC 590 – Medicolegal Death Investigation / Pathology Credits: 3</p>	<p>3</p> <p>FRSC 540 - Forensic Chemistry Credits: 3</p> <p>FRSC 560 - Forensic DNA Sciences Credits: 3 and FRSC 561 – Forensic DNA Laboratory Credits: 1</p> <p>FRSC 570 - Introduction to Biochemical Forensics Credits: 3</p> <p>FRSC 600 - Forensic Seminar Credits: 1</p> <p>FRSC 610 - Forensic Research Project Credits: 1-3 (4 Total)</p>	<p>3</p> <p>FRSC 540 - Forensic Chemistry Credits: 3 and FRSC 541 – Forensic Chemistry Laboratory Credits: 1</p> <p>FRSC 560 - Forensic DNA Sciences Credits: 3</p> <p>FRSC 570 - Introduction to Biochemical Forensics Credits: 3</p> <p>FRSC 600 - Forensic Seminar Credits: 1</p> <p>FRSC 520 - Forensic Toxicology Credits: 3</p> <p>FRSC 610 - Forensic Research Project Credits: 1-3 (4 Total)</p>	<p>FRSC 620 – Face and Biometric Pattern Analysis Credits: 3</p> <p>FRSC 630 – Fingerprint Identification Credits: 3</p> <p>FRSC 640 – Legal/Privacy/Ethical Issues in Identity Analysis Credits: 3</p> <p>FRSC 650 –Identity Analysis Applications Credits: 1</p> <p>FRSC 600 – Forensic Seminar Credits: 1</p> <p>FRSC 610 - Forensic Research Project Credits: 1-3 (4 Total)</p> <p>AIT 675 - Overview of the National Intelligence Community Credits: 3</p> <p>AIT 678 – National Security Challenges Credits: 3</p>
Total Core	21	29	27	30	33
Elective Courses	FRSC 511 - Advanced Crime Scene Analysis Credits: 3	FRSC 600 - Forensic Seminar Credits: 1	FRSC 600 - Forensic Seminar Credits: 1	FRSC 600 - Forensic Seminar Credits: 1	FRSC 511 - Advanced Crime Scene Analysis Credits: 3

FRSC 512 - Physical Evidence Analysis Credits: 3	FRSC 512 - Physical Evidence Analysis Credits: 3	FRSC 511 - Advanced Crime Scene Analysis Credits: 3	FRSC 511 - Advanced Crime Scene Analysis Credits: 3	FRSC 550 - Issues in Forensic Anthropology Credits: 3
FRSC 513 - Forensic Photography Credits: 3	FRSC 550 - Issues in Forensic Anthropology Credits: 3	FRSC 550 - Issues in Forensic Anthropology Credits: 3	FRSC 550 - Issues in Forensic Anthropology Credits: 3	FRSC 512 - Physical Evidence Analysis Credits: 3
FRSC 515 – Selected Topics in Forensic Science Credits: 3	FRSC 580 – Facial Reconstruction Credits: 3	FRSC 580 – Facial Reconstruction Credits: 3	FRSC 580 – Facial Reconstruction Credits: 3	FRSC 790 - Internship in Forensic Science Credits: 1-3
FRSC 520 - Forensic Toxicology Credits: 3	FRSC 790 - Internship in Forensic Science Credits: 1-3	FRSC 790 - Internship in Forensic Science Credits: 1-3	FRSC 790 - Internship in Forensic Science Credits: 1-3	FRSC 690 - Forensic Capstone Course Credits: 3
FRSC 550 - Issues in Forensic Anthropology Credits: 3	FRSC 620 – Face and Biometric Pattern Analysis Credits: 3	FRSC 690 - Forensic Capstone Course Credits: 3	FRSC 690 - Forensic Capstone Course Credits: 3	FRSC 590 – Medicolegal Death Investigation / Pathology Credits: 3
FRSC 560 - Forensic DNA Sciences Credits: 3	FRSC 630 – Fingerprint Identification Credits: 3	FRSC 590 – Medicolegal Death Investigation / Pathology Credits: 3	FRSC 590 – Medicolegal Death Investigation / Pathology Credits: 3	FRSC 570 - Introduction to Biochemical Forensics Credits: 3
FRSC 580 – Facial Reconstruction Credits: 3	FRSC 640 – Legal/Privacy/Ethical Issues in Identity Analysis Credits: 3	FRSC 620 – Face and Biometric Pattern Analysis Credits: 3	FRSC 620 – Face and Biometric Pattern Analysis Credits: 3	FRSC 513 - Forensic Photography Credits: 3
FRSC 790 - Internship in Forensic Science Credits: 1-3	FRSC 515 – Selected Topics in Forensic Science Credits: 3	FRSC 630 – Fingerprint Identification Credits: 3	FRSC 630 – Fingerprint Identification Credits: 3	FRSC 515 – Selected Topics in Forensic Science Credits: 3
BIOL 510 - Forensic DNA Analysis Laboratory Credits: 1	FRSC 520 - Forensic Toxicology Credits: 3	FRSC 640 – Legal/Privacy/Ethical Issues in Identity Analysis Credits: 3	FRSC 640 – Legal/Privacy/Ethical Issues in Identity Analysis Credits: 3	FRSC 517 - Questioned Document Examination Credits: 3
SOCI 607 - Criminology				

	Credits: 3	FRSC 517 – Questioned Document Examination Credits: 3 FRSC 540 - Forensic Chemistry Credits: 3 and FRSC 541 – Forensic Chemistry Laboratory Credits: 1 FRSC 560 - Forensic DNA Sciences Credits: 3 and FRSC 561 – Forensic DNA Laboratory –Credits: 1 FRSC 650 –Identity Analysis Applications Credits: 1	FRSC 515 – Selected Topics in Forensic Science Credits: 3 CHEM 563 – General Biochemistry Credits: 4 FRSC 517 – Questioned Document Examination Credits: 3 FRSC 650 –Identity Analysis Applications Credits: 1 BIOL 574 – Population Genetics Credits: 4 (Course not currently being offered by BIOL)	CHEM 563 – General Biochemistry I Credits: 4 CHEM 564 – General Biochemistry II Credits: 3 FRSC 515 – Selected Topics in Forensic Science Credits: 3 CHEM 624 – Principles of Chemical Separation Credits: 3 FRSC 517 – Questioned Document Examination Credits: 3 FRSC 650 –Identity Analysis Applications Credits: 1	
Total Elective	12	7	9	6	3
TOTAL	33	36	36	36	36