FORENSIC SCIENCE (FRSC)

200 Level Courses
FRSC 200: Survey of Forensic Science. 3 credits.
This course will familiarize students with the basic principles, professional practice, quality assurance, and quality control measures employed in the practice of forensic science in the American system of justice. An introduction to topics including the nature of evidence and the law, crime scene investigations, serology, DNA analysis, bloodstain pattern, trace evidence, microscopy, forensic pathology, anthropology, odontology and entomology/ Offered by College of Science. May not be repeated for credit.

Schedule Type: Lecture
Grading:
This course is graded on the Undergraduate Regular scale.

FRSC 201: Introduction to Criminalistics. 3 credits.
This course will provide an overview of the field of criminalistics, with a focus on the recognition, collection, preservation, and analysis of physical evidence. During the course, the student will be introduced to topics such as fingerprints, question documents, firearms, drugs of abuse, explosives and arson to prepare them for additional, more in-depth classes in criminalistics/forensic science. Offered by College of Science. May not be repeated for credit.

Schedule Type: Lecture
Grading:
This course is graded on the Undergraduate Regular scale.

300 Level Courses
FRSC 302: Forensic Trace Analysis. 3 credits.
This course will provide an overview of the field of forensic science with specific emphasis on areas of trace and biological evidence, including topics such as the analysis of hair, soil, glass, paint, and other trace material. A laboratory component provides an introduction to microscopy which assists students master the foundation tools used in analyzing forensic trace evidence. Offered by College of Science. May not be repeated for credit.

Specialized Designation: Writing Intensive in the Major
Registration Restrictions:
Required Prerequisites: FRSC 200C and 201C.
C Requires minimum grade of C.

Schedule Type: Lecture
Grading:
This course is graded on the Undergraduate Regular scale.

FRSC 303: Forensic Evidence and Ethics. 3 credits.
This course will acquaint the student with the application of scientific methods and the interaction it may have with legal principles. It will prepare the student for future applications of forensic science with its role in the administration of justice, courtroom testimony, and the ethical rules and duties under codes of professional conduct and practice. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Required Prerequisites: FRSC 200C and CRIM 100C.
C Requires minimum grade of C.

Schedule Type: Lecture
Grading:
This course is graded on the Undergraduate Regular scale.

FRSC 304: Forensic Chemistry. 3 credits.
Introduction to the chemical principles and methods used in the application of forensics toward the elucidation of criminal activity and to support litigation. Students will be learning the fundamentals of statistics (QA/QC), chromatography (GC and LC), and instrumentation (microscopy, FTLR, and MS) that will enable forensic analysis of trace evidence relating to: drugs, explosives, toxicology, arson, firearms, volatiles, and hair/fibers. Offered by College of Science. May not be repeated for credit.

Specialized Designation: Writing Intensive in the Major
Registration Restrictions:
Required Prerequisites: FRSC 200C, 201C, CHEM 211C, 213C, 212C and 214C.
C Requires minimum grade of C.

Schedule Type: Lecture
Grading:
This course is graded on the Undergraduate Regular scale.

400 Level Courses
FRSC 401: Crime Scene Investigations. 3 credits.
This course provides the scientific principles of crime scene investigations by applying the basic knowledge of proper documentation, collection and preservation of physical evidence. Proper crime scene protocols and evidence processing techniques will be performed in areas such as, forensic photography, sketching, blood stain pattern analysis, trajectory, skeletal remains, and fingerprinting. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Required Prerequisites: FRSC 200C, 201C and 303C.
C Requires minimum grade of C.

Enrollment limited to students in the SC-BS-FRSC program.

Schedule Type: Lecture
Grading:
This course is graded on the Undergraduate Regular scale.

FRSC 405: Independent Research Methods. 3 credits.
This course is designed to allow students to complete an approved independent forensic science research project under the guidance of a faculty mentor. A formal research proposal will be prepared and submitted. In addition to conferring with the instructor regularly regarding the process of their research, students will also be introduced to research and writing methods throughout the course. Offered by College of Science. May not be repeated for credit.

Recommended Prerequisite: Completion of 90 credits or permission of instructor.

Registration Restrictions:
Enrollment limited to students in the SC-BS-FRSC program.

**Schedule Type:** Research

**Grading:**
This course is graded on the Undergraduate Regular scale.

**FRSC 406: Forensic Internship.** 3 credits.
This course is designed to allow students the opportunity to enhance their academic coursework with field work either at an approved agency or under the guidance of an approved faculty mentor that will substantially correlate with a discipline of forensic science. For successful completion, the student must complete a minimum of 135 hours of work. Offered by College of Science. May not be repeated for credit.

**Recommended Prerequisite:** Completion of 60 credits or permission of instructor.

**Registration Restrictions:**
Enrollment limited to students in the SC-BS-FRSC program.

**Schedule Type:** Internship

**Grading:**
This course is graded on the Undergraduate Regular scale.

**FRSC 415: Selected Topics in Forensic Science.** 3 credits.
Topics vary according to instructor’s specialty. Notes: May be repeated only with permission of program chair. Offered by College of Science. May be repeated within the degree for a maximum 6 credits.

**Recommended Prerequisite:** Completion of Forensic Science Foundation courses

**Schedule Type:** Lecture

**Grading:**
This course is graded on the Undergraduate Regular scale.

**Additional Course Details:** Title varies by section and/or semester

FRSC 420: Forensic Toxicology. 3 credits.
Examines toxic substances and their effects on human cellular and organ systems. The course focuses on human physiological concepts, the human enzymatic detoxification processes, methodologies for identifying toxins, and specific toxic analytes. Offered by College of Science. May not be repeated for credit.

**Recommended Prerequisite:** Completion of Forensic Science Foundation courses

**Schedule Type:** Lecture

**Grading:**
This course is graded on the Undergraduate Regular scale.

**FRSC 440: Advanced Forensic Chemistry.** 3 credits.
The principles of forensic chemistry will be addressed in this course, including analytical chemistry, instrumentation, sample handling, drug chemistry and pharmacology, and analysis of physical evidence such as papers, inks, paints, and coatings. Offered by College of Science. May not be repeated for credit.

**Recommended Prerequisite:** Completion of Forensic Science Foundation courses

**Schedule Type:** Lecture

**Grading:**
This course is graded on the Undergraduate Regular scale.

**FRSC 460: Forensic Molecular Biology.** 3 credits.
This course will provide an understanding of body fluid identification and molecular biology testing methodologies as applied to the analysis of forensic samples. The process of forensic DNA analysis will be covered in depth. Current topics in forensic DNA analysis will be reviewed including population genetics, validation, quality assurance, the CODIS database, Y-STRs, mitochondrial DNA testing, SNPs and contemora research. Offered by College of Science. May not be repeated for credit.

**Registration Restrictions:**
**Required Prerequisites:** FRSC 200C, 201C, BIOL 213C and 311C.
C Requires minimum grade of C.

**Schedule Type:** Lecture

**Grading:**
This course is graded on the Undergraduate Regular scale.

**FRSC 499: Comprehensive Examination.** 0 credits.
The comprehensive examination ensures that the student is prepared to engage in an entry level forensic profession, in advanced forensic training or a graduate program. Students are required to pass this examination prior to graduation. Offered by College of Science. May be repeated within the degree.

**Recommended Corequisite:** FRSC 304, 401 and 460.

**Registration Restrictions:**
**Required Prerequisites:** FRSC 200C, 201C, 302C and 303C.
C Requires minimum grade of C.

Enrollment limited to students in the SC-BS-FRSC program.

**Schedule Type:** Independent Study

**Grading:**
This course is graded on the Satisfactory/No Credit scale.

**500 Level Courses**

**FRSC 500: Introduction to Forensic Science.** 3 credits.
This course will provide an overview of the foundation and history of forensic science. During the course, the various disciplines and specialties within forensic science will be discussed such as biology, chemistry, toxicology, microscopy, odontology, and anthropology. Additionally, the different types of physical evidence and instrumentation encountered in the field will be reviewed. Topics within ethics and quality assurance are also discussed. Offered by College of Science. May not be repeated for credit.

**Registration Restrictions:**
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

**Schedule Type:** Lecture

**Grading:**
This course is graded on the Graduate Regular scale.

FRSC 510: Basic Crime Analysis. 3 credits.
This course examines the role of the crime scene investigator, search, seizure and related legal issues; crime scene documentation (note taking, photography, sketching, and measurements); processing of latents and 2-D and 3-D impressions; collection, packaging and preservation of physical evidence. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture
Grading:
This course is graded on the Graduate Regular scale.

FRSC 511: Advanced Crime Scene Analysis. 3 credits.
Advanced Crime Scene Analysis is designed to build on concepts introduced in FRSC 510 (Basic Crime Scene Analysis), and to provide an enhanced foundation in the field of criminalistics for those students who are interested in learning the application of science to solving crimes. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Required Prerequisite: FRSC 510B-.
B- Requires minimum grade of B-.

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture
Grading:
This course is graded on the Graduate Regular scale.

FRSC 512: Physical Evidence Laboratory. 3 credits.
This is a series of practical laboratory exercises that introduces the student to the analysis of physical evidence including the examination of pattern and trace evidence such as hairs, tool marks, firearms evidence, and shoe prints; processing of fingerprints using various chemicals, powders, and alternate light sources. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Required Prerequisite: FRSC 510B-.
B- Requires minimum grade of B-.

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Laboratory
Grading:
This course is graded on the Graduate Regular scale.

FRSC 513: Forensic Photography. 3 credits.
This series of lecture and practical photography exercises introduces the student to photographic crime scene documentation techniques including concepts of controlling exposure, lighting, focus, and composition as it relates to matters of a forensic nature; photographic documentation of criminal artifacts including fluorescent fingerprints and Blue Star treated blood stains. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture
Grading:
This course is graded on the Graduate Regular scale.

FRSC 514: Survey of Forensic Chemistry, Biology, and DNA Analysis. 3 credits.
This course will provide an overview of the history, theory and principles of the various processes of Forensic Biology and Chemistry analysis, including quality assurance. General applications of chemistry analysis as applied to forensic evidence will be covered, as well as, the biology and genetics of DNA and the typing systems used in Forensic DNA analysis. The technology and instrumentation used in forensic chemistry analysis and the analysis of biological fluids and DNA will also be covered. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture
Grading:
This course is graded on the Graduate Regular scale.

FRSC 515: Selected Topics in Forensic Science. 3 credits.
Topics vary with instructor’s specialty. Offered by College of Science. May be repeated within the degree for a maximum 12 credits.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture
Grading:
FRSC 517: Questioned Document Examination. 3 credits. Theory and principles of handwriting and printing processes, paper manufacture and fiber analysis, fracture match comparison, ink analysis, and indented writing examinations; methods of examining questioned documents. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture
Grading:
This course is graded on the Graduate Regular scale.

FRSC 520: Toxicology. 3 credits. Forensic Toxicology examines the adverse effects of alcohol, drugs and other chemicals on the human body. A lecture style course integrating pharmacology, toxicology and analytical chemistry to understand how the principles of toxicology are applied to the legal system. Offered by College of Science. May not be repeated for credit.

Recommended Prerequisite: Advanced level undergraduate course in Chemistry, Biology or Biochemistry or permission of instructor.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture
Grading:
This course is graded on the Graduate Regular scale.

FRSC 530: Law and Forensic Science. 3 credits. A detailed examination and analysis of the law affecting forensic science across the discipline range. Special emphasis is given to the laws affecting evidence, courtroom procedure, ethics, and professional responsibilities of the forensic expert. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture
Grading:
This course is graded on the Graduate Regular scale.

FRSC 540: Forensic Chemistry. 3 credits. The principles of forensic chemistry will be addressed in this course, including analytical chemistry, instrumental methods of analysis, sample handling, drug chemistry and toxicology. Offered by College of Science. May not be repeated for credit.

Recommended Prerequisite: Undergraduate degree in chemistry or biology. The student must have a good understanding of general Chemistry including polarity and acid/base chemistry. A student should have taken Organic Chemistry, and be able to identify functional groups and other chemistry structures that make up a molecule. Any exposure to instrumental techniques such as gas chromatography, mass spectrometry and infrared spectroscopy are helpful.

Registration Restrictions:
Required Prerequisite: FRSC 541B.
B Requires minimum grade of B.

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to students with a concentration in Forensic Chemistry Analysis.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture
Grading:
This course is graded on the Graduate Regular scale.

FRSC 541: Forensic Chemistry Laboratory. 1 credit. This course will familiarize students with chemical knowledge gained from experimental observations and studies in the laboratory. Students will examine, test and establish for themselves the forensic chemistry discussed in the lecture courses. Note: The successful passing of a Virginia Department of Forensic Science background check is required prior to gaining access to this laboratory course. Offered by College of Science. May not be repeated for credit.

Recommended Prerequisite: Undergraduate degree in chemistry or biology. The student must have a good understanding of general Chemistry including polarity and acid/base chemistry. A student should have taken Organic Chemistry, and be able to identify functional groups and other chemistry structures that make up a molecule. Any exposure to instrumental techniques such as gas chromatography, mass spectrometry and infrared spectroscopy are helpful.

Registration Restrictions:
Required Prerequisite: FRSC 540B.
B Requires minimum grade of B.

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to students with a concentration in Forensic Chemistry Analysis.
Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Laboratory

Grading:
This course is graded on the Graduate Regular scale.

FRSC 550: Issues in Forensic Anthropology. 3 credits.
This course examines issues related to the recovery and analysis of human skeletal remains in a medicolegal context. Topics include detection and mapping approaches for human remains, assessment of biological information from the skeleton (such as sex, ancestry, age, and stature), and the analysis of skeletal trauma. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture

Grading:
This course is graded on the Graduate Regular scale.

FRSC 560: Forensic DNA Sciences. 3 credits.
This is a seminar style course providing an overview of the history, theory and principles of the various processes of Forensic DNA analysis. The biology and genetics of DNA and the typing systems used in Forensic DNA will be reviewed. The technology used in the analysis of DNA, including data analysis, interpretation, CODIS database and statistical applications will also be covered. Offered by College of Science. May not be repeated for credit.

Recommended Prerequisite: Undergraduate coursework in molecular and/or cell biology, as well as genetics, prior to taking this course or permission of instructor.

Registration Restrictions:

Required Prerequisite: FRSC 561*B.
* May be taken concurrently.
B Requires minimum grade of B.

Enrollment is limited to students with a concentration in Forensic Biology Analysis.

Enrollment is limited to Graduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture

Grading:
This course is graded on the Graduate Regular scale.

FRSC 561: Forensic DNA Laboratory. 1 credit.
This laboratory course will provide comprehensive coverage of the various types of DNA testing currently used in forensic biology laboratories. Students will have hands-on experience with the analytical equipment employed and the techniques used for human identification in forensic casework, such as, DNA extraction, quantitation, PCR amplification, genotyping, and interpretation. Note: The successful passing of a Virginia Department of Forensic Science background check is required prior to gaining access to this laboratory course. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:

Required Prerequisite: FRSC 560*B.
* May be taken concurrently.
B Requires minimum grade of B.

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to students with a concentration in Forensic Biology Analysis.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Laboratory

Grading:
This course is graded on the Graduate Regular scale.

FRSC 570: Trace and Physical Evidence Concepts. 3 credits.
Prepares students to evaluate physical evidence through the use of microscopic, chemical, and instrumental means. The course will emphasize the scientific procedures used to identify the evidence, the analysis of data generated during the identification phase, and the inductive reasoning process which allows the forensic scientist to draw conclusions based on the evidence at hand. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture

Grading:
This course is graded on the Graduate Regular scale.

FRSC 580: Facial Reconstruction. 3 credits.
The course begins with an introduction to methods used in image analysis, and the methods of facial reconstruction. The course will then explore modern techniques applied to several areas of forensic imaging. Advance topics in forensic sculpturing, 3D imagery, and post-mortem imagery will be explored. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.
Schedule Type: Lecture

Grading:
This course is graded on the Graduate Regular scale.

FRSC 590: Medicolegal Death Investigation and Pathology. 3 credits.
Introduction to the pathology and physiology of the human body with an emphasis on scientific and medical terminology, in addition to the various techniques used in medicolegal death investigation. Discussion of death scene analysis, autopsy procedures, and unidentified remains. Overview of the role of the medical examiner’s office within the United States and an introduction to the forensic investigation of sudden and unexpected deaths, including homicides, suicides, accidents, accidental deaths, and various traumatic deaths. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Required Prerequisite: FRSC 510B.
B - Requires minimum grade of B -.

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture

Grading:
This course is graded on the Graduate Regular scale.

600 Level Courses
FRSC 600: Forensics Seminar. 1 credit.
Presentations are made about selected topics in law enforcement, homeland security and forensic science presented by professionals working in the field and forensic science research presented by GMU graduate students. Students must also write an article, not to exceed four pages, chosen by the students from a set of recent, peer-reviewed scientific journals established by the instructor. Students will analyze the scientific method used in the article and critique the research performed.

Notes: Students enrolled in the forensic science MS program must attend at least 80% of the seminars. Offered by College of Science. May be repeated within the degree for a maximum 3 credits.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Seminar

Grading:
This course is graded on the Graduate Regular scale.

FRSC 610: Forensic Research Project. 1-4 credits.
This course is a two semester course required for all graduate students prior to graduation. The first semester course consists of a 1.0 Credit Course where the students select a research topic and a qualified research advisor (faculty member or affiliated forensic science professional). The second semester course is a 3.0 Credit Course where the students perform their research, write their research paper and make a presentation of their research project to GMU Forensic Science Faculty members. Offered by College of Science. May be repeated within the degree for a maximum 4 credits.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to students with a major in Forensic Science.

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Research

Grading:
This course is graded on the Graduate Special scale.

FRSC 620: Face and Biometric Pattern Analysis. 3 credits.
This course will familiarize students with the basic principles and uses of biometrics for automated searches and comparisons by forensic examiners. This course will review the basics of face, fingerprints, iris, and speaker recognition. Students should gain an understanding of how automated systems and forensic examiners perform recognition. Students will also learn the capabilities and limitations of biometric recognition. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture

Grading:
This course is graded on the Graduate Regular scale.

FRSC 630: Fingerpring Identification. 3 credits.
This course will cover the exploration of the techniques and methods of identification, capture and analysis of fingerprint evidence, including consideration of the fundamentals of fingerprint patterns, classification formulas and extensions, techniques for taking good fingerprints, problems in fingerprinting, preparation of fingerprint charts for court testimony, and practical exercises for capturing fingerprints. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture

Grading:
This course is graded on the Graduate Regular scale.
FRSC 640: Legal, Privacy and Ethical Issues in Identity Analysis. 3 credits. This course will review basic policies and doctrinal guidance related to the applications of biological, physical, chemical, and medical sciences to questions of evidence and law. In doing so, students should gain a basic understanding of the high level policies, protocols, standards, privacy, civil liberties, and doctrine related to the forensic sciences as they are practiced relating to identity analysis. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture
Grading:
This course is graded on the Graduate Regular scale.

FRSC 650: Identity Analysis Applications. 1 credit. This course will review the basics of biometrics and how the various biometric modalities can be used to aid in identification and identity verification. The course will also focus on how biometrics and forensics are used, or can be used, in various applications from military uses, intelligence/counter-terrorism, border and immigrations control and in support of state development. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Seminar
Grading:
This course is graded on the Graduate Regular scale.

FRSC 690: Capstone - Moot Court & Expert Testimony. 3 credits. In this course, students will learn and practice how to incorporate forensic science theory, research, analysis, writing and speaking skills into a life like moot court experience. They will learn how and why forensic science evidence is admitted into court proceedings, and their role in the admission of evidence. Topics will include Federal and state rules of evidence; admission of forensic science testimony into criminal and civil cases; the process of being qualified as an expert witness, including the Voir dire Process; The role and responsibility of expert witnesses; Developing an Expert Witness Curriculum CV, and trial preparation; Proper laboratory and CSI report development and writing for presentation in court, and developing proper speaking skills for courtroom testimony. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:
Required Prerequisites: FRSC 500\(^B\), 510\(^B\) and 530\(^B\).

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture
Grading:
This course is graded on the Graduate Regular scale.

700 Level Courses
FRSC 790: Internship in Forensic Science. 1-3 credits. On the job experience for graduate students in industry, government laboratories, investigative units, or approved study programs with forensic science employers. Students work in observational, experimental, or theoretical research, and prepare weekly journals, as well as midpoint and final evaluations completed by the employer. The student is responsible for applying to and obtaining the internship prior to registering for this course. Offered by College of Science. May be repeated within the degree for a maximum 6 credits.

Registration Restrictions:
Enrollment limited to students with a major in Forensics or Forensic Science.

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Internship
Grading:
This course is graded on the Graduate Regular scale.

FRSC 799: Master's Thesis. 1-6 credits. Project chosen and completed under guidance of graduate faculty member. Comprehensive report (thesis) acceptable to student's advisory committee is required. Offered by College of Science. May be repeated within the degree for a maximum 6 credits.

Registration Restrictions:
Enrollment limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Thesis
Grading:
This course is graded on the Satisfactory/No Credit scale.