Course Approval Form

For instructions see:
http://registrar.gmu.edu/facultystaff/catalog-revisions/course/

Action Requested:

- [X] Create new course
- [ ] Inactivate existing course
- [ ] Modify existing course (check all that apply)
  - [ ] Title
  - [ ] Prereq/coreq
  - [ ] Other:
  - [3] Credits
  - [ ] Schedule Type
  - [ ] Repeat Status
  - [ ] Restrictions
  - [ ] Grade Type

Course Level:

- [ ] Undergraduate
- [X] Graduate

College/School: College of Science
Department: Forensic Science Program
Submitted by: Joseph A. DiZinno
Ext: 4985 **Email:** Jdizinn2@gmu.edu

Subject Code: FRSC **Number:** 620
(Do not list multiple codes or numbers. Each course proposal must have a separate form.)

Effective Term:

- [X] Fall
- [ ] Spring
- [ ] Summer

Year 2016

Title:
Current
Banner (30 characters max w/ spaces) Face&BiometricPatternAnalysis
New Face and Biometric Pattern Analysis

Fulfills Mason Core Req? (undergrad only)

- [ ] Currently fulfills requirement
- [ ] Submission in progress

Credits: (check one)

- [3] Fixed
- [ ] Variable

or
to

Repeat Status: (check one)

- [X] Not Repeatable (NR)
- [ ] Repeatable within degree (RD)
- [ ] Repeatable within term (RT)

Maximum credits allowed: 3

Grade Mode: (check one)

- [X] Regular (A, B, C, etc.)
- [ ] Satisfactory/No Credit
- [ ] Special (A, B C, etc. +IP)

Schedule Type: (check one) LEC can include LAB or RCT

- [X] Lecture (LEC)
- [ ] Lab (LAB)
- [ ] Recitation (RCT)
- [ ] Internship (INT)
- [ ] Independent Study (IND)
- [ ] Seminar (SEM)
- [ ] Studio (STU)

Prerequisite(s):
None

Corequisite(s):
None

Instructional Mode:

- [X] 100% face-to-face
- [ ] Hybrid: ≤ 50% electronically delivered
- [ ] 100% electronically delivered

Restrictions Enforced by System: Major, College, Degree, Program, etc. (include code)
None

Equivalencies: (check only as applicable)

- [ ] YES, course is 100% equivalent to: _____
- [ ] YES, course is being renumbered to/will replace the following: _____

Catalog Copy for NEW Courses Only (Consult University Catalog for models)

Description (No more than 60 words, use verb phrases and present tense)	**Notes** (List additional information for the course)
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.	

Indicate number of contact hours: Hours of Lecture or Seminar per week: 3 Hours of Lab or Studio:
When Offered: (check all that apply) [X] Fall [ ] Summer [X] Spring

Department Approval Date

College/School Approval Date

If this course includes subject matter currently dealt with by any other units, 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 Graduate Courses Only

Graduate Council Member

Provost Office

Graduate Council Approval Date

Course 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 COURSES (required)

Course Number and Title: FRSC 620-000/Face and Biometric Pattern Analysis

Date of Departmental Approval: 11/23/15

FOR INACTIVATED/REINSTATED COURSES (required if inactivating/reinstating a course)

- Reason for Inactivating/Reinstating:

FOR MODIFIED COURSES (required if modifying a course)

- Summary of the Modification:
- Text before Modification (title, repeat status, catalog description, etc.):
- Text after Modification (title, repeat status, catalog description, etc.):
- Reason for the Modification:

FOR NEW COURSES (required if creating a new course)

- Reason for the New Course: Face and Biometric Pattern Analysis plays an important role in criminal and intelligence investigations. GMU Forensic Science Program graduate students are currently lacking instruction in this area and this course will provide valuable instruction/experience for GMU Forensic Science Program graduate students.
- Relationship to Existing Programs: The Face and Biometric Pattern Analysis Course will be a core course requirement for the GMU Forensic Science Program Graduate Course Forensic/Biometric Identity Analysis Concentration and will also be offered as an elective course for the three other GMU Forensic Science Program graduate concentrations.
- Relationship to Existing Courses: : The Legal, Privacy and Ethical Issues in Identity Analysis Course is a new course which significantly enhances the GMU Forensic Science Program graduate Forensic/Biometric Identity Analysis Concentration as a core course and offers an elective course choice for students enrolled in the three other GMU Forensic Science Program graduate concentrations.
- Semester of Initial Offering: Fall 2016
- Proposed Instructors: Professor Jonathon Phillips- Adjunct Professor of Forensic Science
- Insert Tentative Syllabus Below

GEORGE MASON UNIVERSITY
Face and Biometric Pattern Analysis – FRSC 620-000
Fall 2016

Instructor: Adjunct Professor Jonathon Phillips
Forensic Science Program
George Mason University

Office: Exploratory Hall Suite 3400

Email: fscience@gmu.edu

Phone #: 703-993-5071 (main desk)

Text: Forthcoming book "Biometrics in Forensic Science," (Eds) Massimo Tistarelli and Christophe Champod.

Course Description: 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 learn the capabilities and limitations of biometric recognition. The course will be in a lecture format with class discussions, quizzes, a mid-term exam, a final exam and a scientific presentation.

Student Responsibilities: Students will be responsible for reading the required material prior to each class and to be prepared for facilitated discussions. Class attendance and participation is essential in order to cover the course material with a breadth of understanding and will contribute to the final grade.

Presentation

- Students will pick an aspect of one biometric modality. Example aspects are operational methods, application in the law enforcement, and methods for recognition. The student will compare and contrast the differences between the approaches for forensic examiners and automated methods.
- Students will research their topic and make a 10 minute presentation. The presentation should consist of no more than 10 slides.
- Presentations will be made from the middle of November through the last day of class.
- A grade will be determined for presentation based upon the content of the presentation and the student's understanding of their topic in forensic and biometric analysis.

Grading: Class participation and attendance, two quizzes, the paper/presentation, a midterm exam and a final exam will determine your grade in this course as detailed below:

- Class Participation & Attendance (10%)
- Quiz 1 (15%)
- Mid-term Exam (20%)
- Quiz 2 (15%)
- Final Exam (20%)
- Presentation (20%)

100 A+	87-89 B+	70-79 C
95-99 A	83-86 B	0-69
90-94 A-	80-82 B-	

Note: The schedule is subject to change, please listen for announcements during class.
Note: Additional reading assignments may be added throughout the semester.

GMU Add/Drop Deadlines

Last day to add classes/Last day to drop with no tuition penalty	September x
Last day to drop with a 33% tuition penalty	September x
Final Drop Deadline (67% tuition penalty)	October x
Selective Withdrawal Period (undergraduate students only)	October x –October x

GMU Honor Code

The Honor Code states that all students "pledge not to cheat, plagiarize, steal, or lie in matters related to academic work."

Academic Integrity

GMU is an Honor Code university; please see the University Catalog for a full description of the code and the honor committee process. The principle of academic integrity is taken very seriously and violations are treated gravely. What does academic integrity mean in this course? Essentially this: when you are responsible for a task, you will perform that task. When you rely on someone else's work in an aspect of the performance of that task, you will give full credit in the proper, accepted form. Another aspect of academic integrity is the free play of ideas. Vigorous discussion and debate are encouraged in this course, with the firm expectation that all aspects of the class will be conducted with civility and respect for differing ideas, perspectives, and traditions. When in doubt (of any kind) please ask for guidance and clarification.

GMU E-mail Accounts

Students must activate their GMU email accounts to receive important University information, including messages related to this class.

Office of Disability Services

If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Services (ODS) at 993-2474. All academic accommodations must be arranged through the ODS. http://ods.gmu.edu

Other Useful Campus Resources

WRITING CENTER: A114 Robinson Hall; (703) 993-1200; http://writingcenter.gmu.edu

University policy states that all sound emitting devices shall be turned off during class unless otherwise authorized by the Professor.