Course Approval Form

For approval of new courses and deletions or modifications to an existing course.

registrar.gmu.edu/facultystaff/curriculum

Action Requested:

[X] Create new course [ ] Delete existing course

[ ] Modify existing course (check all that apply)

[ ] Title [ ] Credits [ ] Repeat Status [ ] Grade Type

[ ] Prereq/coreq [ ] Schedule Type [ ] Restrictions

[ ] Other:

Course Level:

[ ] Undergraduate

[X] Graduate

College/School: College of Science **Department:** Forensic Science Program

Submitted by: William Whildin **Ext:** 3-5059 **Email:** wwhildin@gmu.edu

Subject Code: FRSC **Number:** 512

(Do not list multiple codes or numbers. Each course proposal must have a separate form.)

Effective Term: [ ] Fall [X] Spring [ ] Summer *Year* 2011

Title: Current: Crime Scene Investigation - Laboratory

Banner (30 characters max including spaces):

New:

Credits: (check one) [X] Fixed 1 or [ ] Variable to

Repeat Status: (check one) [X] Not Repeatable (NR) [ ] Repeatable within degree (RD) [ ] Repeatable within term (RT) Maximum credits allowed: 1

Grade Mode: (check one) [X] Regular (A, B, C, etc.) [ ] Satisfactory/No Credit [ ] Special (A, B C, etc. +IP)

Schedule Type Code(s): (check all that apply) [ ] Lecture (LEC) [X] Lab (LAB) [ ] Recitation (RCT) [ ] Internship (INT) [ ] Independent Study (IND) [ ] Seminar (SEM) [ ] Studio (STU)

Prerequisite(s): FRSC – 510 or permission of instructor

Corequisite(s):

Instructional Mode:

[X] 100% face-to-face

[ ] Hybrid: ≤ 50% electronically delivered

[ ] 100% electronically delivered

Special Instructions: (list restrictions for major, college, or degree;hard-coding; etc.)

Are there equivalent course(s)? [ ] Yes [X] No

If yes, please list

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 is a series of practical laboratory exercises that introduces the student to sophisticated crime scene documentation techniques including collection of evidence, examination of hairs, fibers, toolmarks and other trace evidence. Advanced topics in blood spatter, trajectory, pattern casting, and alternate light sources will be explored.	

Indicate number of contact hours: Hours of Lecture or Seminar per week: Hours of Lab or Studio: 3

When Offered: (check all that apply) [ ] Fall [ ] Summer [X] Spring

Approval Signatures

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

For Registrar Office's Use Only: Banner_____Catalog_____ *revised 2/2/10*

Course Proposal Submitted to the Graduate Council
by
The College of Science

1. COURSE NUMBER AND TITLE:
FRSC 512: Crime Scene Investigation Laboratory

Course Prerequisites: FRSC-510 or permission of instructor

Catalog Description: (1:0:3)
This is a series of practical laboratory exercises that introduces the student to sophisticated crime scene documentation techniques including collection of evidence, examination of hairs, fibers, toolmarks and other trace evidence. Advanced topics in blood spatter, trajectory, pattern casting, and alternate light sources will be explored.

2. COURSE JUSTIFICATION: No other course available.

Course Objectives:
Crime Scene Investigation Laboratory course is designed to build on aspects taught in the Basic Crime Scene Analysis course, (FRSC 510), 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 crime. The objectives will be to introduce students to techniques in collection of evidence, examination of hairs, fibers and other trace evidence through laboratory and field exercises.

Course Necessity:
There is a shortage of available courses from which Forensic Science graduates can choose beyond the core at the 500-level. This is no lab course for students in the Forensic Science Program that allows them to have hands on experiences and to develop techniques in the analysis of processing evidence.

Course Relationship to Existing Programs:

This will be an elective within the Forensic Science Master's program

Course Relationship to Existing Courses:
None

3. APPROVAL HISTORY: N/A

4. SCHEDULING AND PROPOSED INSTRUCTORS:

Semester of Initial Offering: Spring 2011

Proposed Instructors: Emily Rancourt

5. TENTATIVE SYLLABUS: See attached.

Syllabus:

Instructors: Emily Rancourt
GMU – Assistant Professor
COS – Forensic Science Program

Texts: Forensic Science Laboratory Manual and Workbook 3rd edition, by Thomas Kubic & Nicholas Petraco

Course Description:

The objectives will be to introduce students to techniques, procedures, and physical methods of forensic science through laboratory and field exercises.

Lecture Content:

1. Check in, lab safety – Introduction to Scientific Measurement
2. Understanding elements of identification & individualization
3. Use of compound microscopes
4. Stereomicroscopes and firing pin/tool mark impressions
5. Acquiring and classifying inked and latent fingerprints
6. Trace evidence collection and sorting
7. Midterm
8. Examination of human hair
9. Examination of mammalian hair
10. Examination of trace quantities of synthetic fibers
11. Tool mark examination
12. Soil examination
13. Glass Fractures and direction of force
14. Final Examination

Grades: 30% Midterm, 30% Final, 40 % Laboratory Exercises

GMU Honor Code:

Standards of academic integrity as set forth by the University are strictly observed and rigorously enforced in this class. The complete Honor Code is as follows: *To promote a stronger sense of mutual responsibility, respect, trust, and fairness among all members of the George Mason University community and with the desire for greater academic and personal achievement, we, the student members of the university community, have set forth this honor code:* **Student members of the George Mason University community pledge not to cheat, plagiarize, steal, or lie in matters related to academic work.**

GMU Email:

Each student is responsible for activating their GMU email account and checking their account on a regular basis for University and class announcements.

GMU Police Policy:

If you are currently employed with a law enforcement agency as a sworn officer and would like to carry a firearm on campus and into class, you must contact GMU Police Department as a courtesy. 703-993-2810