

Course Change Request

Date Submitted: 01/23/26 2:05 pm

Viewing: **FRSC 470 : Forensic Genomics**

Last approved: 01/14/25 6:09 am

Last edit: 01/23/26 2:05 pm

Changes proposed by: kcarisi

**Catalog Pages
referencing this
course**

- [Forensic Science \(FRSC\)](#)
- [Forensic Science Program](#)

Select modification type:

Substantial

In Workflow

1. FRSC
Representative
2. SC Curriculum
Committee
3. SC Assistant Dean
4. Assoc Provost-
Undergraduate
5. Registrar-Courses
6. Banner

Approval Path

1. 01/23/26 2:07 pm
Kimberly Rule
(kcarisi): Approved
for FRSC
Representative

History

1. Jan 28, 2021 by
Kimberly Rule
(kcarisi)
2. Jan 14, 2025 by
Kimberly Rule
(kcarisi)

Are you completing this form on someone else's behalf?

No

Effective Term: Fall 2026

Subject Code: FRSC - Forensic Science

Course Number: 470

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Forensic Genomics

Banner Title: Forensic Genomics

Will section titles vary by semester? No

Credits: 4

Schedule Type: Lecture

Hours of Lecture or Seminar per week: 4

Repeatable: May be only taken once for credit, limited to 3 attempts (N3) **Max Allowable Credits:**
12

Default Grade Mode: Undergraduate Regular

Recommended Prerequisite(s):

Recommended Corequisite(s):

Required Prerequisite(s) / Corequisite(s) (Updates only):

Add as required pre-requisites: BIOL 215 and BIOL 313 ~~BIOL 213, BIOL 214 or STAT 250, BIOL 311 or BIOL 311, and FRSC 460~~

Registrar's Office Use Only - Required Prerequisite(s)/Corequisite(s):

| And/Or | (| Course/Test Code | Min Grade/Score | Academic Level |) | Concurrency? |
|--------|---|------------------|-----------------|----------------|---|--------------|
| | (| BIOL 213 | C | UG | | |
| Or | | BIOL 213 | XS | UG |) | |
| And | (| BIOL 214 | C | UG | | |
| Or | | BIOL 214 | XS | UG | | |
| Or | | STAT 250 | C | UG | | |
| Or | | STAT 250 | XS | UG |) | |

| And/Or | (| Course/Test Code | Min Grade/Score | Academic Level |) | Concurrency? |
|--------|---|------------------|-----------------|----------------|---|--------------|
| And | (| BIOL 311 | C | UG | | |
| Or | | BIOL 311 | XS | UG | | |
| Or | | BIOL L311 | T | UG |) | |
| And | (| FRSC 460 | C | UG | | |
| Or | | FRSC 460 | XS | UG |) | |

**Registration
Restrictions
(Updates only):**

Registrar's Office Use Only - Registration Restrictions:

Field(s) of Study:

Class(es):

Level(s):

Degree(s):

School(s):

**Catalog
Description:**

This course will cover advanced principles and methods related to DNA typing in a forensic context. The course will review the current applications of DNA typing, and then address emerging methods and technological advances. The focus of the course will be on methods and techniques involved in Investigative Genetic Genealogy. A second focus of the course will be on how to properly interpret these data. Particular emphasis will be placed on how these emerging methods can advance the field of forensic DNA typing and lead to new capabilities in human identification. Students will gain an understanding of the capabilities and limitations of these emerging areas within forensic science, covering how they build on current practices. Data review and analysis from forensic DNA results will be included in the course.

Justification:

What: add BIOL 215 lab and BIOL 313 lab as required pre-requisites.

Why: BIOL 213 lecture and lab has been recently decoupled to BIOL 213 lecture and BIOL 215 lab, therefore we need to add the BIOL 215 lab as a required pre-requisite to maintain current requisites. BIOL 311 lecture and lab has been recently decoupled to BIOL 311 lecture and BIOL 313 lab, therefore we need to add the BIOL 313 lab as a required pre-requisite to maintain current requisites.

**Does this course cover material which
crosses into another department?** No

Learning Outcomes:

Students will understand how forensic DNA typing is conducted, including strengths and limitations.

Students will be able to explain current interpretational issues.

Students will be able to understand and interpret genetic genealogy data and cases.

Students will be able to identify future trends in this rapidly advancing field.

Students will be able to address how these emerging methods can advance the field of forensic DNA typing and lead to new capabilities in human identification.

Will this course be scheduled as a cross-level cross listed section?

Attach Syllabus

[FRSC 470-670 Forensic Genomics Syllabus.pdf](#)

Additional Attachments

Specialized Course Categories:

Have you reached out to the Libraries to determine whether there are adequate resources to support your course? If not, please email Meg Meiman, Associate University Librarian for Learning, Research, and Engagement at mmeiman2@gmu.edu.

Additional Comments:**Reviewer Comments**

Key: 17043