Course Change Request

Date Submitted: 01/23/26 2:03 pm

Viewing: **FRSC 326 : Molecular Biology Laboratory**

Transfer Course(s): FRSC L326

Last approved: 01/11/25 6:07 am

Last edit: 01/23/26 2:03 pm

Changes proposed by: kcarisi

Catalog Pages referencing this course

Forensic Science (FRSC)

Forensic Science Program

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 2:06 pm Kimberly Rule (kcarisi): Approved for FRSC Representative

History

1. Jan 28, 2021 by Kimberly Rule (kcarisi)
2. Jan 11, 2025 by Kimberly Rule (kcarisi)

Select modification type:

Substantial

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

No

Effective Term: Fall 2026

Subject Code: FRSC - Forensic Science **Course Number:** 326

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Molecular Biology Laboratory

Banner Title: Molecular Biology Laboratory

Will section titles vary by semester? No

Credits: 1

Schedule Type: Laboratory

Hours of Lab or Studio per week: 3

Repeatable: May be only taken once for credit, limited to 3 attempts (N3)

Max Allowable Credits: 3

Default Grade Mode: Undergraduate Regular

Recommended Prerequisite(s):

Recommended Corequisite(s):

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

Add required pre-requisites: BIOL 215 and BIOL 313 ~~BIOL 213, BIOL 214 or STAT 250, BIOL 311 or BIOL L311, and FRSC 325*~~

~~*May be taken concurrently~~

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 325	C	UG		Yes
Or		FRSC 325	XS	UG	)	Yes

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 laboratory course will cover basic laboratory methods in molecular biology. The emphasis will be on existing and emerging techniques utilized in forensic DNA laboratories. Techniques will include, extraction, quantitation, STR typing, and SNP microarray genotyping.

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 basic laboratory methods within molecular biology.
Students will be able to identify existing and emerging techniques used in forensic DNA laboratories.
Students will be able to complete extraction and quantitation.
Students will be able to conduct and interpret STR typing and SNP microarray genotyping.

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

Attach Syllabus
FRSC 326-526 Molecular Biology Lab Syllabus_rev.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: 17041