Course Change Request

Date Submitted: 11/04/24 8:07 pm

Viewing: FRSC 470 : Forensic Genomics

Last approved: 01/28/21 5:01 am

Last edit: 11/04/24 8:07 pm

Changes proposed by: kcarisi

Catalog Pages referencing this course

Forensic Science (FRSC)

Forensic Science Program

Select modification type:

Substantial

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

No ~~Yes~~

Effective Term: Spring 2025

Subject Code: FRSC - Forensic Science

Course Number: 470

Bundled Courses:

In Workflow

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

Approval Path

1. 11/04/24 8:24 pm Kimberly Rule (kcarisi): Approved for FRSC Representative

History

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

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):

BIOL 213, BIOL 214 or STAT 250, BIOL 311 or BIOL L311, ~~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	(	BIOL 311	C	UG		

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
Or		BIOL 311	XS	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: Adding lower-level equivalent pre-requisite of BIOL 311 (BIOL L311).

Why: To eliminate the need of registration overrides for the lower-level equivalent course of BIOL 311.

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:

Additional Comments:

Reviewer Comments

Key: 17043