Course Change Request

Date Submitted: 11/04/24 8:14 pm

Viewing: FRSC 305 : Forensic Chemistry Laboratory

Last approved: 12/19/20 4:52 am

Last edit: 11/04/24 8:14 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 Curriculum Committee
4. SC Assistant Dean
5. Assoc Provost-Undergraduate
6. Registrar-Courses
7. Banner

Approval Path

1. 11/04/24 8:21 pm Kimberly Rule (kcarisi): Approved for FRSC Representative

History

1. Dec 3, 2019 by afalsett
2. Dec 19, 2020 by Kimberly Rule (kcarisi)

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

No ~~Yes~~

Effective Term: Spring 2025

Subject Code: FRSC - Forensic Science

Course Number: 305

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Forensic Chemistry Laboratory

Banner Title: Forensic Chemistry 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):

Minimum grade of C or higher in FRSC 200, 201, 304*, CHEM 211, 212, 213, and 214.

*FRSC 304 may be taken concurrently

Minimum grade of C or higher in CHEM 313 or ~~313,~~ CHEM L313, and CHEM 315 or CHEM L315

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

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
	(					
	(	FRSC 200	C	UG		
Or		FRSC 200	XS	UG	)	
And	(	FRSC 201	C	UG		
Or		FRSC 201	XS	UG	)	

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
And	(	FRSC 304	C	UG		Yes
Or		FRSC 304	XS	UG	)	
And	(	CHEM 211	C	UG		
Or		CHEM 211	XS	UG	)	
And	(	CHEM 212	C	UG		
Or		CHEM 212	XS	UG	)	
And	(	CHEM 213	C	UG		
Or		CHEM 213	XS	UG	)	
And	(	CHEM 214	C	UG		
Or		CHEM 214	XS	UG	)	
And	(	CHEM 313	C	UG		
Or		CHEM 313	XS	UG	)	
And	(	CHEM 315	C	UG		
Or		CHEM 315	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 correlate laboratory exercises to the theoretical and investigative principles of forensic chemistry. The laboratory experiments and activities have been designed to expand on and support the

material taught in the lecture section of the Forensic Chemistry course (FRSC 304). Students will have hands-on experience with basic forensic chemistry procedures and commonly used laboratory instrumentation. This laboratory course will enable students to explore the use of presumptive testing, controlled substance analysis, blood alcohol measurements, explosive residue analysis, ignitable liquid residue analysis, and chemical enhancement techniques used at crime scenes and in investigative procedures. The students will have hands-on experience using TLC, GC, GC/MS, and FTIR instrumentation and they will learn the fundamentals of how they operate and how to interpret the data generated by these systems.

Justification:

What: Adding lower-level equivalent pre-requisite of CHEM 313 and 315 (CHEM L313 and CHEM L315).
Why: To eliminate the need of registration overrides for the lower-level equivalent courses of CHEM 313 and 315.

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

Learning Outcomes:

- Development of basic chemistry laboratory skills relevant to forensics, including proficient use of alternate light sources, micropipettes, microscopes, capillary gas chromatography (GC), mass spectrometry (MS), and Fourier Transform Infrared (FTIR) spectroscopy.
- Ability to understand and perform forensic chemical analysis procedures, draw logical conclusions based on data obtained, and present information in a scientific format.
- An understanding of evidence handling, laboratory health and safety, and quality control measures.

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

Attach Syllabus

FRSC 305 Forenisc Chemistry Laboratory Syllabus.pdf

Additional Attachments

Specialized Course Categories:

Additional Comments:

Reviewer Comments

Key: 16526