Course Change Request

Date Submitted: 03/17/25 2:47 pm

Viewing: CHEM 212 : General Chemistry II

Transfer Course(s): CHEM U212

Last approved: 05/21/24 6:52 am

Last edit: 03/18/25 9:21 am

Changes proposed by: jcallus

Catalog Pages referencing this course

Biology (BIOL)

Chemistry (CHEM)

Select modification type:

~~Specialized Course Designation~~

Substantial

In Workflow

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

Approval Path

1. 03/17/25 2:56 pm Mikell Paige (mpaige3): Approved for CHEM Chair

History

1. Aug 29, 2017 by pchampan
2. Mar 17, 2018 by Gerald Weatherspoon (grobert1)
3. May 15, 2020 by Tory Sarro (vsarro)
4. Oct 1, 2021 by Jennifer Bazaz Gettys (jbazaz)
5. May 21, 2024 by Tory Sarro (vsarro)

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

No

Effective Term: Summer 2025

Subject Code: CHEM - Chemistry

Course Number: 212

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses: CHEM 202 - Introductory Chemistry II

Catalog Title: General Chemistry II

Banner Title: General Chemistry II

Will section titles vary by semester? No

Credits: 3

Schedule Type: Lecture

Hours of Lecture or Seminar per week: 3

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

Max Allowable Credits: 9

Default Grade Mode: Undergraduate Regular

Recommended Prerequisite(s):

Recommended Corequisite(s):
CHEM 214

Required Prerequisite(s) / Corequisite(s) (Updates only):
CHEM 211

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

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
	(	CHEM 211	C	UG		

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
Or		CHEM 211T	T	UG		
Or		CHEM U211	T	UG		
Or		CHEM 211	XS	UG	)	
And	(	CHEM 213	C	UG		
Or		CHEM 213T	T	UG		
Or		CHEM U213	T	UG		
Or		CHEM 213	XS	UG	)	
And	(	CHEM 214	C	UG		Yes
Or		CHEM 214T	T	UG		Yes
Or		CHEM U214	T	UG		Yes
Or		CHEM 214	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:

Fundamentals of colligative properties, reaction rates and equilibrium. Topics Include kinetics, properties of solutions, ionic equilibrium, chemical thermodynamics, electrochemistry, and nuclear chemistry. Notes: CHEM 212 must be taken concurrently with CHEM 214 on the first attempt. Credit will not be given for this course and CHEM 103, 104. Students majoring in science, engineering, or mathematics should choose this course sequence.

Justification:

What: We are removing CHEM 213 as a pre-requisite and CHEM 214 as a co-requisite.

Why: The rationale for this is to:

1) allow students to enroll in lecture even if labs are at capacity
2) allow students to waitlist for lecture and/or lab sections
3) let students drop lab without having to drop lecture
4) reduce problems with registration

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

Learning Outcomes:

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

Attach Syllabus

Additional Attachments

Specialized Course Categories:
Mason Core

Select the Mason Core Requirement the course is proposing to fulfill:

Foundation Courses:

Exploration Courses:
Natural Sciences Non-Lab

Exploration Courses:

Integration Courses:

Natural Sciences Non-Lab

Courses must meet the following learning outcomes:

1. Understand how scientific inquiry is based on investigation of evidence from the natural world, and that scientific knowledge and understanding: a) evolves based on new evidence, and b) differs from personal and cultural beliefs.
2. Recognize the scope and limits of science.
3. Recognize and articulate the relationship between the natural sciences and society and the application of science

to societal challenges (e.g., health, conservation, sustainability, energy, natural disasters, etc.).
4. Evaluate scientific information (e.g., distinguish primary and secondary sources, assess credibility and validity of information).

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see "?" for help with submission)

Syllabus

Completed proposal worksheet

Assignments (if needed)

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:

~~Correcting the designation on this course - it is the lecture component of a nat sci pairing (with 214) and should carry the non-lab designation not the lab designation. CHEM 214 carries the lab designation which will pull into the student record when they have taken both courses in the pair.~~

Reviewer Comments

Key: 2213