

# **Course Approval Form**

For instructions see:

http://registrar.gmu.edu/facultystaff/catalogrevisions/course/

Action Requested:			<u>Co</u> urse Level:	
Create new course Inactivate e	existing course		X Undergraduate	
X Modify existing course (check all that apply)				
X Title X Credits	X Repeat Status	Grade Type	Graduate	
X Prereq/coreq Schedule Type	X Restrictions			
		Department:		
Submitted by: GLR WEATHERSPOOL	N	Ext: 3-1456	Email: grobert1@gmu.edu	
Subject Code: CHEM Number: 2	211 <b>E</b>	Effective Term:	X Fall	
(Do not list multiple codes or numbers. Each course propo	osal must		Spring Year 2016	
have a separate form.)			Summer	
Title: Current General Chemistry			Fulfills Mason Core Req? (undergrad only)	
Banner (30 characters max w/ spaces)			X Currently fulfills requirement <i>natural science lecture</i>	
New General Chemistry – I	Damast Otatura	Net Deneste	Submission in progress	
(check one) Variable to	(check one)	Repeatable v	within degree (RD) Maximum credits	
	N2***	Repeatable v	within term (RT)allowed:	
Grade Mode: Regular (A, B, C, etc.)	Schedule Ty	/pe: Lectu	Independent Study (IND)	
(check one) Satisfactory/No Credit	(check one)	Lab (I	LAB) Seminar (SEM)	
	LAB or RCT	Intern	alion (RCT) Studio (STO)	
Prerequisite(s):	Corequisite(s):		Instructional Mode:	
	CHEM 213		100% face-to-face	
			Hybrid: ≤ 50% electronically delivered	
Postriations Enforced by Systems Maior	allere Derree Dr	arrana ata (inaliu	100% electronically delivered	
Restrictions Enforced by System: Major, C	ollege, Degree, Pro	ogram, etc. (inclu	Ide code) Equivalencies: (check only as applicable)	
transfer equivalency	grade of C or high	IEF IN CHEIM 213	OR TES, course is 100% equivalent to. <u>CHEM 20</u>	
			YES, course is being renumbered	
			to/will replace the following:	
Catalog Copy for NEW Courses Only (C	Consult University Cat	talog for models)		
Description (No more than 60 words, use verb phr	rases and present ten	se) Notes (L	ist additional information for the course)	
CHEM 211 is a prerequisite to CHEM 212. Fundamental principles of - Rep			Repeat Status = N2; limits the maximum number of attempts	
atomic and molecular structure; chemical bonding; basic concepts of that a			at a student can take the course to 2 attempts without	
chemical reactions and thermochemistry; properties of gases, liquids, depart			epartmental approval.	
mathematics should choose this course sequence			equivalent to CHEM 211 (4 credit linked lecture & lab course)	
prior - Fulf - Cree			prior to Fall 2016.	
			- Fulfills Mason Core requirement in natural science lecture.	
			will not be given for this course and CHEM 103,	
		CHEM	104. A 211 is aquivalant to CHEM 201 prior to Fall 2016	
Indicate number of contact hours:	ours of Lecture or Se	minar per week	3 Hours of Lab or Studio: 0	
When Offered: (check all that apply) X Fal	X Summer	X Spring		
Approval Signatures				
Department Approval	Date	College/School	Approval Date	
If this course includes subject matter currently	dealt with by any otl	her units, the origi	nating department must circulate this proposal for review by	
those units and obtain the necessary signatures pri	or to submission. Fail	lure to do so will de	elay action on this proposal.	
Unit Name Unit Appro	oval Name	Unit Approver'	's Signature Date	
<u> </u>				
For Graduate Courses Only				
-				
Craduata Council Mambar	Drovoot Office		Craduate Council Approval Data	
Graduale Council Member	Provosi Office		Graduale Council Approval Date	

For Registrar Office's Use Only: Banner\_

revised 6/22/15

## Course Proposal Submitted to the College of Science Curriculum Committee (COSCC)

The form above is processed by the Office of the University Registrar. This second page is for the COSCC's reference. Please complete the applicable portions of this page to clearly communicate what the form above is requesting.

#### FOR ALL COURSES (required)

Course Number and Title: CHEM 211 General Chemistry-I

Date of Departmental Approval: 10/12/2015

### FOR INACTIVATED/REINSTATED COURSES (required if inactivating/reinstating a course)

• Reason for Inactivating/Reinstating:

### FOR MODIFIED COURSES (required if modifying a course)

- Summary of the Modification: Lecture and lab components of GenChem-1 are being decoupled so that students will have the flexibility to repeat only the portion of the course where they want to improve their grade, rather than the entire coupled course. This option is currently available to transfer and summer students from other universities, but not our traditionally matriculating GMU students.
  - This course will be equivalent to CHEM 201 prior to Fall 2016.
- Text before Modification (title, repeat status, catalog description, etc.):
  - CHEM 211 General Chemistry (4:3:3); Not Repeatable
  - Basic facts and principles of chemistry, including atomic and molecular structure, gas laws, kinetics, equilibrium, electrochemistry, nuclear chemistry, and properties and uses of the more important elements and their compounds.
  - Fulfills Mason Core requirement in natural science (lab).
  - **Notes:** Credit will not be given for this course and CHEM 103, 104. Students majoring in science, engineering, or mathematics should choose this course sequence.
  - Hours of Lecture or Seminar per week: 3
  - Hours of Lab or Studio per week: 3
- Text after Modification (title, repeat status, catalog description, etc.):
  - CHEM 211 General Chemistry-I (3:3:0); Repeat Status = N2
  - Fundamental principles of atomic and molecular structure; chemical bonding; basic concepts of chemical reactions and thermochemistry; and properties of gases, liquids, and solids.
  - Fulfills Mason Core requirement in natural science (lab).
  - -
    - **Notes:** Credit will not be given for this course and CHEM 103, CHEM 104. Students majoring in science, engineering, or mathematics should choose this course sequence.
  - Hours of Lecture or Seminar per week: 3
  - Hours of Lab or Studio per week: 0
- Reason for the Modification:
  - Quite a few of our transfer students come from VCU, Christopher Newport, William & Mary (usually summer session students), JMU, Norfolk State, ODU, UVA, Virginia State and Virginia Tech. The traditional students at these universities experience academic hiccups the same as

our students, however, the de-coupled nature of their GenChem lecture/lab courses makes it easier for them to repeat the component they failed rather than the entire course. We service many of these students when they return to the Fairfax area for summer session and the bookkeeping is rather interesting.

- 2. We have lab waivers but not lecture waivers, which means that our students are required to repeat lecture and lab if they fail the course. Decoupling the linked courses would allow OUR STUDENTS to repeat the failed component only, i.e. repeat lab only if they pass the lecture portion of the course---the same as is currently done with organic, physical, instrumental analysis, inorganic and biochemistry courses. The mechanism that we currently have in place for transfer students (and summer sessions) allows visiting students to enroll in lecture or lab only, which gives them an unfair advantage over traditional GMU matriculating students.
- 3. Decoupling the lecture and lab components of the course would eliminate the need for lab waivers each semester. Currently, the office staff is bombarded and interrupted with phone calls, non-scheduled office visits and email requests for information regarding eligibility and filing of lab waivers.
- 4. Enrollment snapshots would accurately reflect the numbers as they stand, independently of each other, in the lecture and lab courses. This will eliminate the mismatch that students often encounter when lab waivers have been filed and there are open seats in lab, yet the lecture shows as CLOSED.
- 5. Coding for CHEM 211 (nothing currently exists) will be modified to reflect concurrent/co-requisite enrollment in lecture and lab).

#### FOR NEW COURSES (required if creating a new course)

- Reason for the New Course:
- Relationship to Existing Programs:
- Relationship to Existing Courses:
- Semester of Initial Offering:
- Proposed Instructors:
- Insert Tentative Syllabus Below