

# ATTACHMENT D

## CIM Report May 8, 2017 3:01pm Course Changes Pending Approval from Graduate Committee

Code	Field	Old Value	New Value
ARTS 4623		Deleted	
ARTS 4963	code	ARTS 4613	ARTS 4963
	Course Catalog Number	4613	4963
	Course Academic Level	Dual Level	Undergraduate
	Course Short Title	VISUAL DESIGN: WEB I	INTRODUCTION TO WEB DESIGN
	Course Long Title	Visual Design: Web I	Introduction to Web Design
	Course Catalog Description	This course introduces students to the World Wide Web and the technologies and practices involved in creating a successful Web presence. Discussions include interactivity, usability and accessibility with an emphasis on standards-based hand-coding with a special attention to graphic design standards.	This course introduces students to design and coding for responsive web sites. Lessons include internet and web history, interactivity, usability and accessibility with an emphasis on basic design and standards-based hand-coding.
	Course Delivery Method	On campus	On campus
	Course Offering Term(s)	Fall	Summer
	Course Last Update Effective		Summer 2017
	Course Title/Description Change Type		Major Content Change
	Justification		This course as presently constituted does not fall within the parameters of the new Bachelor of Fine Arts in Graphic Design degree that officially began Fall 2016. (That new degree does have three updated interactive courses specifically offered for graphic design students.) This course has been popular as an elective with students from all over campus and easily fills, to provide a good working knowledge of coding and understanding the web.
CHEM 4123	Course Last Update Effective	Spring 2017	Spring 2018
	Course Academic Level	Dual Level	Undergraduate
	Course Prerequisite(s)	CHEM 3514.	CHEM 3453.
	Justification	Enforcing graduate requisites.	Removing dual status. Changing prerequisite to more appropriate course for preparation.
	Reviewer Comments		agriffin Fri, 14 Apr 2017 21:51:51 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 4213	Course Last Update Effective	Spring 2017	Spring 2018
	Course Academic Level	Dual Level	Undergraduate
	Course Prerequisite(s)	((CHEM 2263 and CHEM 2261L) and ((CHEM 3613 and CHEM 3611L) or (CHEM 3713 and CHEM 3712L))).	((CHEM 2263 and CHEM 2261L) and ((CHEM 3613 and CHEM 3611L) or (CHEM 3613H and CHEM 3612M) or (CHEM 3713 and CHEM 3712L))).
	Justification	Enforcing graduate requisites.	Removing dual status. Correcting prerequisite to include all second semester organic chemistry courses.
	Course Corequisite(s)		CHEM 4211L.
	Reviewer Comments		agriffin Mon, 17 Apr 2017 16:08:22 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.

CHEM 4723	Course Last Update Effective	Spring 2017	Spring 2018
	Course Academic Level	Dual Level	Undergraduate
	Course Catalog Description	Introduction to the application of synthetic and spectroscopic methods in organic chemistry, including mass spectrometry, infrared spectroscopy, and nuclear magnetic resonance spectrometry. Other laboratory techniques applicable to chemical research will be included. Lecture 2 hours, laboratory 3 hours per week, and 1 hour drill. Chemistry students may not receive graduate credit for this course and CHEM 5753.	Introduction to the application of synthetic and spectroscopic methods in organic chemistry, including mass spectrometry, infrared spectroscopy, and nuclear magnetic resonance spectrometry. Other laboratory techniques applicable to chemical research will be included. Lecture 3 hours and laboratory 3 hours per week. Lecture only meets the first half of the term. Laboratory meets the entire term.
	Course Primary Component	Lecture	Lecture/Laboratory
	Course Non Credit Lab	Yes	No
	Course Prerequisite(s)	CHEM 3613 and CHEM 3611L (or CHEM 3713 and CHEM 3712L).	CHEM 3613 and CHEM 3611L, (or CHEM 3613H or 3612M), (or CHEM 3713 and CHEM 3712L).
	Course Corequisite(s)	Drill and lab components.	Lab component.
	Justification	Enforcing graduate requisites.	Updating in-class hours for lecture and lab. Correcting pre-requisite to include CHEM 3613H/3612M. Eliminating drill. No longer dual offered. Graduate section will be separate course, CHEM 5723 with no lab component.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 14 Apr 2017 21:52:38 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 4853	Course Last Update Effective	Spring 2017	Spring 2018
	Course Academic Level	Dual Level	Undergraduate
	Course Primary Component	Laboratory	Lecture/Laboratory
	Course Non Credit Lab	No	Yes
	Course Pre-or Corequisite(s)	CHEM 5813 or CHEM 3813.	CHEM 3813 or CHEM 4843H.
	Justification	Enforcing graduate requisites.	Updating description. Correcting pre-/co-requisite.
	Course Corequisite(s)		Lab component.
	Reviewer Comments		agriffin Fri, 14 Apr 2017 21:53:12 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 5101	Course Catalog Description	Introduces new graduate students to research opportunities and skills in chemistry and biochemistry. Meets 1 hour per week during which new students receive information from faculty regarding research programs in the department and training in the use of research support facilities available in the department.	This eight week course introduces new graduate students to research opportunities and skills in chemistry and biochemistry. Meets 2 hours per week in the first half of the semester. Safety and ethics in research and scholarship are discussed. Students learn about research programs in the department to aid in choosing an advisor.
	Course Offering Term(s)	Spring	Fall
	Course Last Update Effective		Spring 2018
	Course Title/Description Change Type		Major Content Change
	Justification		Changing from spring and fall offering to only fall offering. Updating description to reflect change in course delivery.

	Reviewer Comments		agriffin Fri, 14 Apr 2017 21:20:37 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 5123		Added	
CHEM 5153	Course Last Update Effective	Spring 2017	Spring 2018
	Course Catalog Description	Determination of molecular structure by spectroscopic, diffraction, and other techniques. Illustrative examples will be chosen mainly from inorganic chemistry.	Determination of molecular structure by diffraction, spectroscopic, and other techniques. Illustrative examples will be chosen from inorganic chemistry and biochemistry.
	Course Pre-or Corequisite(s)	CHEM 3504 and CHEM 4123.	
	Justification	Enforcing requisites.	Updating course description. Removing pre-/co-requisites
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 28 Apr 2017 21:29:43 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 5213		Added	
CHEM 5223	Course Last Update Effective	Spring 2017	Spring 2018
	Course Catalog Description	Use and application of operational amplifiers to chemical instrumentation; digital electronic microprocessor interfacing; software development and real-time data acquisition.	Use and application of operational amplifiers to chemical instrumentation; digital electronic microprocessor interfacing; software development and real-time data acquisition. Knowledge of analytical chemistry comparable to material in CHEM 4213 is recommended.
	Course Prerequisite(s)	CHEM 4213 and PHYS 2074.	
	Justification	Enforcing requisites.	Updating description. Removing pre-/co-requisites
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 14 Apr 2017 18:36:27 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 5243	Course Last Update Effective	Spring 2017	Spring 2018
	Course Catalog Description	Topics will include: diffusion, electron transfer kinetics, and reversible and irreversible electrode processes; followed by a discussion of chronoamperometry, chronocoulometry, polarography, voltammetry and chronopotentiometry.	Topics will include diffusion, electron transfer kinetics, and reversible and irreversible electrode processes followed by a discussion of chronoamperometry, chronocoulometry, polarography, voltammetry, and chronopotentiometry. Knowledge of analytical chemistry comparable to material in CHEM 4213 is recommended.
	Course Prerequisite(s)	CHEM 4213 and MATH 2574.	
	Justification	Enforcing requisites.	Updating description. Removing pre-/co-requisites.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 14 Apr 2017 18:38:14 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 5253	Course Last Update Effective	Spring 2017	Spring 2018

	Course Catalog Description	Principles and methods of modern spectroscopic analysis. Optics and instrumentation necessary for spectroscopy is also discussed. Topics include atomic and molecular absorption and emission techniques in the ultraviolet, visible, and infrared spectral regions.	Principles and methods of modern spectroscopic analysis. Optics and instrumentation necessary for spectroscopy is also discussed. Topics include atomic and molecular absorption and emission techniques in the ultraviolet, visible, and infrared spectral regions. Knowledge of analytical chemistry comparable to material in CHEM 4213 is recommended.
	Course Prerequisite(s)	CHEM 4213.	
	Justification	Enforcing requisites.	Updating description. Removing pre-/co-requisites.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 14 Apr 2017 18:39:09 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 5283	Course Last Update Effective	Spring 2017	Spring 2018
	Course Catalog Description	Fundamental and applied concepts of energy storage and conversion, with sustainability implications. Chemical reactions (kinetics, thermodynamics, mass transfer), emphasizing oxidation-reduction, electrochemical, and interfacial processes, and impact on performance of fuel and biofuel cells, batteries, supercapacitors, and photochemical conversion. Prerequisite or	Fundamental and applied concepts of energy storage and conversion with sustainability implications. Chemical reactions (kinetics, thermodynamics, mass transfer), emphasizing oxidation-reduction, electrochemical, and interfacial processes, and impact on performance of fuel and biofuel cells, batteries, supercapacitors, and photochemical conversion.
	Course Prerequisite(s)	CHEM 1103, CHEM 1123, PHYS 2054, PHYS 2074, and MATH 2554.	
	Course Corequisite(s)	MATH 2564.	
	Justification	Enforcing requisites.	Updating description. Removing pre-/co-requisites.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 14 Apr 2017 19:35:23 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 5443		Added	
CHEM 5453	Course Last Update Effective	Spring 2017	Spring 2018
	Course Catalog Description	Fundamental quantum theory: Hamiltonian formalism in classical mechanics, Schrodinger equation, operators, angular momentum, harmonic oscillator, barrier problems, rigid rotator, hydrogen atom and interaction of matter with radiation.	Fundamental quantum theory: Hamiltonian formalism in classical mechanics, Schrodinger equation, operators, angular momentum, harmonic oscillator, barrier problems, rigid rotator, hydrogen atom, and interaction of matter with radiation. Knowledge of physical chemistry comparable to material in CHEM 3504 is recommended.
	Course Prerequisite(s)	CHEM 3504. (Recommended: MATH 3404).	
	Justification	Enforcing requisites.	Removing pre-/co-requisites.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 14 Apr 2017 19:58:06 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 5473	Course Last Update Effective	Spring 2017	Spring 2018

	Course Catalog Description	Theory and applications of the principles of kinetics to reactions between substances, both in the gaseous state and in solution.	Theory and applications of the principles of kinetics to reactions between substances, both in the gaseous state and in solution. Knowledge of physical chemistry comparable to material in CHEM 3514 is recommended.
	Course Offering Year	Every Year	Odd Years
	Course Prerequisite(s)	CHEM 3514.	
	Justification	Enforcing requisites.	Updating description. Removing pre-/co-requisites.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 14 Apr 2017 20:00:38 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 5573	Added		
CHEM 5603	Course Last Update Effective	Spring 2017	Spring 2018
	Course Catalog Description	Introduction to the theoretical interpretation of reactivity, reaction mechanisms, and molecular structure of organic compounds. Application of theories of electronic structure; emphasis on recent developments.	Introduction to the theoretical interpretation of reactivity, reaction mechanisms, and molecular structure of organic compounds. Application of theories of electronic structure; emphasis on recent developments. Knowledge of material comparable to CHEM 3613, CHEM 3613H, CHEM 3713 and CHEM 3514 is recommended.
	Course Prerequisite(s)	(CHEM 3514 and CHEM 3713 and CHEM 3712L).	
	Justification	Enforcing requisites.	Updating descriptions. Removing pre-/co-requisites.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 14 Apr 2017 20:28:37 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 5633	Course Last Update Effective	Spring 2017	Spring 2018
	Course Catalog Description	The more important types of organic reactions and their applications to various classes of compounds.	The more important types of organic reactions and their applications to various classes of compounds. Knowledge of organic chemistry comparable to material in CHEM 3603 is recommended.
	Course Prerequisite(s)	(CHEM 3514 and CHEM 3713 and CHEM 3712L).	
	Justification	Enforcing requisites.	Updating description. Removing pre-/co-requisites.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 14 Apr 2017 20:36:03 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 5723	Added		
CHEM 5753	Course Last Update Effective	Spring 2017	Spring 2018
	Course Catalog Description	Interpretation of physical measurements of organic compounds in terms of molecular structure. Emphasis on spectroscopic methods (infrared, ultraviolet, magnet resonance, and mass spectra).	Interpretation of physical measurements of organic compounds in terms of molecular structure. Emphasis on spectroscopic methods (infrared, ultraviolet, magnet resonance, and mass spectra). Knowledge of organic chemistry comparable to material in CHEM 3603 is recommended.
	Course Prerequisite(s)	(CHEM 3712L and CHEM 3713 and CHEM 3514).	

	Justification	Enforcing requisites.	Updating description. Removing pre-/co-requisites.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 14 Apr 2017 20:38:00 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 5813	Course Last Update Effective	Spring 2017	Spring 2018
	Course Catalog Description	The first of a two-course series covering biochemistry for graduate students in biology, agriculture, and chemistry. Topics covered include protein structure and function, enzyme kinetics, enzyme mechanisms, and carbohydrate metabolism.	The first of a two-course series covering biochemistry for graduate students in biology, agriculture, and chemistry. Topics covered include protein structure and function, enzyme kinetics, enzyme mechanisms, and nucleic acid and carbohydrate structures. Knowledge of organic chemistry comparable to material in CHEM 3613 is recommended.
	Course Cross Listed	[object Object]	
	Course Prerequisite(s)	CHEM 3712L and CHEM 3713 (or CHEM 3613 and CHEM 3611L).	
	Justification	Enforcing requisites.	Updating course descripton. Removing pre-/co-requisites.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		kjvestal Tue, 14 Feb 2017 21:27:23 GMT Rollback: Rolling back per Heather Jorgensen for additional edits. kjvestal Tue, 14 Feb 2017 21:37:06 GMT Rollback: Rolling back for description edit. kjvestal Tue, 14 Feb 2017 21:44:24 GMT Removed undergraduate honors crosslisted course. Undergraduate and graduate courses cannot be crosslisted, but can be combined classes. agriffin Fri, 14 Apr 2017 20:39:02 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 6011	Course Last Update Effective	Spring 2017	Spring 2018
	Course Repeat Limit - Units	1	99
	Course Repeat Limit	1	99
	Course Catalog Description	Members of the faculty, graduate and advanced students meet weekly for discussion of current chemical research. Weekly seminar sections are offered for the Departmental seminar and for divisional seminars in biochemistry and in analytical, inorganic, nuclear, organic, and physical chemistry. Chemistry graduate students register for the Departmental seminar section and one of the divisional seminar sections each semester they are in residence. Seminar credit does not count toward the minimum hourly requirements for any chemistry graduate degree.	Weekly discussion of current chemical research. Departmental and divisional seminars in analytical chemistry, biochemistry, inorganic, organic, and physical chemistry are held weekly. Seminar credit does not count toward the minimum hourly requirements for any chemistry graduate degree.
	Course Prerequisite(s)	(CHEM 3514 and CHEM 3713 and CHEM 3712L) and senior or graduate standing.	
	Justification	Enforcing graduate requisites.	Cleaning up course description. Removing undergraduate pre-requisites that are likely to hamper graduate students from enrolling.
	Course Title/Description Change Type		Major Content Change

	Reviewer Comments		rcc003 Fri, 03 Mar 2017 14:43:25 GMT pasted updated description from submitter. agriffin Fri, 14 Apr 2017 20:40:21 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 6643	Course Last Update Effective	Spring 2017	Spring 2018
	Course Catalog Description	Theories and principles of organometallic chemistry. Concepts include bonding, stereochemistry, structure and reactivity, stereochemical principles, conformational, steric and stereoelectronic effects. Transition metal catalysis of organic reactions will also be described.	Theories and principles of organometallic chemistry. Concepts include bonding, stereochemistry, structure and reactivity, stereochemical principles, conformational, steric and stereoelectronic effects. Transition metal catalysis of organic reactions will also be described. Knowledge of material comparable to CHEM 3713 and CHEM 3514 is recommended.
	Course Prerequisite(s)	CHEM 3504, and CHEM 3514, and CHEM 3703, and CHEM 3713 or permission of instructor.	
	Justification	Enforcing graduate requisites.	Updating description. Removing pre-/co-requisites.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 14 Apr 2017 20:41:21 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 6823	Course Last Update Effective	Spring 2017	Spring 2018
	Course Catalog Description	Physical chemistry of proteins, nucleic acids, and biological membranes. Ultracentrifugation, absorption and fluorescent spectrophotometry, nuclear magnetic resonance spectroscopy, x-ray diffraction, and other techniques.	Physical chemistry of proteins, nucleic acids, and biological membranes. Ultracentrifugation, absorption and #uorescent spectrophotometry, nuclear magnetic resonance spectroscopy, x-ray diffraction, and other techniques.
	Course Prerequisite(s)	(CHEM 3514 and CHEM 5813) or graduate standing.	CHEM 5813.
	Justification	Enforcing graduate requisites.	Updating description. Updating prerequisite to graduate chemistry course.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		agriffin Fri, 14 Apr 2017 20:42:07 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 4211L	Course Last Update Effective	Spring 2017	Spring 2018
	Course Academic Level	Dual Level	Undergraduate
	Course Pre-or Corequisite(s)	CHEM 4213.	
	Justification	Enforcing graduate requisites.	Removing dual status.
	Course Corequisite(s)		CHEM 4213.
	Reviewer Comments		agriffin Mon, 17 Apr 2017 16:07:12 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
CHEM 700V	Course Last Update Effective	Fall 2016	Spring 2018
	Course Title/Description Change Type	Minor (stylistic/editorial) Change	Major Content Change
	Course Maximum Credit Hours	18	12

	Course Catalog Description	Doctoral Dissertation.	Doctoral Dissertation. For chemistry graduate students who have passed all CUMES and have officially been admitted to doctoral candidacy.
	Course Prerequisite(s)	Graduate standing.	Chemistry graduate student.
	Justification	Repeatable for credit.	Clarifying that this is for doctoral candidates. And, also, for chemistry graduate students only. Clearer language to avoid confusion.
	Reviewer Comments		rcc003 Wed, 01 Mar 2017 21:48:22 GMT changed to 12 hours max credit per semester per submitter's approval. agriffin Fri, 14 Apr 2017 20:44:30 GMT Changed effective catalog date from fall 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for fall implementation.
FJAD 6723		Added	
FJAD 6803		Added	
FJAD 6813		Added	
FJAD 6823		Added	
FJAD 6906		Added	
FJAD 6916		Added	
GEOS 5393		Added	
GEOS 5463		Added	
GEOS 5612		Added	
WLLC 6553		Added	