

CIM Report Apr 21, 2017 11:09am

Course Changes Pending Approval from University Course and Program Committee

Code	Field	Old Value	New Value
ARTS 4203			Added
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 1103	Course Last Update Effective	Fall 2015	Spring 2018
	Course Title/Description Change Type	Minor (stylistic/editorial) Change	Major Content Change
	Course Catalog Description	Survey of basic chemical principles designed as an introductory course for science, engineering or agriculture majors.	An introductory course for science, engineering or agriculture majors. Atomic structure, electron configurations and periodic properties, nomenclature and bonding in compounds, Lewis structure and resonance forms, molecular geometries and polarity, stoichiometry, solution chemistry and aqueous reactions, thermochemistry, gas laws and kinetic molecular theory.
	Course Offering Term(s)	Fall	Fall
	Course Cross Listed	[object Object]	
	Course Pre-or Corequisite(s)	MATH 1203 or higher, ACT MATH 23 or higher, SAT MATH 540 or higher, UA MPT PALG 80% or higher, or AP Calculus AB 3C or higher, or AP Calculus BC 4C or higher, or MATH 1203 CLEP 54 or higher.	

	Justification	Adding Lecture to the ACTS equivalency statement.	Updating course description. Changing math requirement to pre-requisite only because data indicates higher pass rate among students who come into the course with appropriate math skills. Adding spring term offering as it has now been offered in the spring regularly for a few years and this helps students keep on track for a 4-5 year graduation plan. Removed cross listing with CHEM 1213. It is not a combined course. The courses are similar in topics covered but not in how they are taught.
	Course Prerequisite(s)		MATH 1203 or higher, or AP Calculus AB 3C or higher, or AP Calculus BC 4C or higher, or MATH 1203 CLEP 54 or higher.
	Reviewer Comments		rcc003 Mon, 27 Feb 2017 21:38:24 GMT shortened course description. agriffin Fri, 14 Apr 2017 20:48:49 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 1123	Course Last Update Effective	Fall 2015	Fall 2017
	Course Catalog Description	Presents the topics of periodicity, bonding, stoichiometry, thermodynamics, kinetics, and chemical equilibrium in detail. Lecture 3 hours per week. Students who pass the CHEM 1103 Freshman Chemistry Proficiency Exam and enroll in CHEM 1123 and CHEM 1121L and receive a grade of C or better in these courses will also receive credit for CHEM 1103 and CHEM 1101L.	Introductory course for science, engineering or agriculture majors. Liquids, solids, intermolecular forces, phase diagrams, solution chemistry, solubility, colligative properties, chemical kinetics, chemical equilibria, acid-base equilibria, aqueous ionic equilibria, titrations, buffers, solubility equilibria, thermodynamics, electrochemistry, and nuclear chemistry. Lecture 3 hours per week.
	Course Prerequisite(s)	CHEM 1103 (or CHEM 1213 or satisfactory performance on the chemistry proficiency examination) and MATH 1203 or higher or satisfactory performance on the mathematics proficiency examination.	CHEM 1103 (or CHEM 1203, or satisfactory performance on the chemistry proficiency exam) and MATH 1203 or higher, or AP Calculus AB 3C or higher, or AP Calculus BC 4C or higher, or MATH 1203 CLEP 54 or higher.
	Justification	Added ACTS equivalency statement to title per Gary Gunderman.	Updating catalog language. Correcting MATH prerequisite language.
CHEM 1223	Course Last Update Effective	Fall 2015	Spring 2018
	Course Title/Description Change Type	Minor (stylistic/editorial) Change	Major Content Change
	Course Catalog Description	The second half of a two-semester course designed specifically for students planning to major in chemistry or biochemistry. Students may not receive credit for both CHEM 1223 and CHEM 1123.	The second half of a two-semester course designed specifically for students planning to major in chemistry or biochemistry. Students may not receive credit for both CHEM 1223 and CHEM 1123.
	Course Pre-or Corequisite(s)	MATH 2554.	MATH 1284C or higher.
	Justification	Removed the ACTS equivalency statement from title per Gary Gunderman.	Updating course description. Changed MATH prerequisite.
	Reviewer Comments		agriffin Fri, 14 Apr 2017 20:52:09 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 3453	Course Catalog Description	Fundamental concepts of physical chemistry primarily for B.A. Chemistry majors and pre-professional and agriculture students, presented with some recourse to calculus and with applications to life processes and biochemistry. Lecture 3 hours per week. B.A. chemistry majors must enroll in CHEM 3451L concurrently.	One semester accelerated course in physical chemistry primarily for students majoring/minoring in chemistry with biochemistry option, or pre-professional and agriculture students. Topics include thermodynamics, phase chemical equilibrium, chemical kinetics, quantum chemistry and spectroscopy. Presented at the same level as the 2-semester course with some recourse to calculus, although covering fewer topics in quantum chemistry. Lecture 3 hours per week. Students cannot earn credit for both CHEM 3453 and CHEM 3514.
	Course Prerequisite(s)	CHEM 2263, CHEM 2261L, PHYS 2033 and PHYS 2031L (or PHYS 2074) and MATH 2554 (or MATH 2043).	CHEM 2263 and PHYS 2033 (or PHYS 2074), and MATH 2554 (or MATH 2043).
	Course Last Update Effective		Fall 2017
	Course Title/Description Change Type		Major Content Change
	Course Corequisite(s)		Chemistry majors and chemistry minors must enroll in CHEM 3451L concurrently.
	Justification		Update description. Changes to both prerequisite and co-requisite.
	Reviewer Comments		kjvestal Wed, 15 Feb 2017 15:42:28 GMT Rollback: Rolling back per Ryan Cochran. rcc003 Wed, 08 Mar 2017 15:01:59 GMT grammar
CHEM 3504	Course Last Update Effective	Fall 2014	Fall 2017
	Course Catalog Description	Introduction to atomic and molecular structure, kinetic theory of gases, and elementary statistical mechanisms. Lecture and recitation 4 hours per week.	First semester of a 2-semester course in physical chemistry designed for chemistry majors and chemistry minors with topics covering wave-particle duality, quantum chemistry, atomic and molecular structure, bonding, spectroscopy and elementary statistical mechanics. Lecture and recitation 4 hours per week.
	Course Prerequisite(s)	(CHEM 1123 and CHEM 1121L) or (CHEM 1123H and CHEM 1121M) or (CHEM 1223 and CHEM 1221L) or (CHEM 1133 and CHEM 1131L) and PHYS 2074.	CHEM 2263 and PHYS 2074.
	Course Corequisite(s)	MATH 2564.	
	Justification	CHEM 3504 Physical Chemistry I and its second semester counterpart, CHEM 3514 Physical Chemistry II, are among the most difficult courses at our University. It is a disservice to the students who take it to not to have the option to earn honors credit for it, while much less demanding classes have honors sections available.	Updating description. Changes to prerequisites and pre/co-requisites.
	Reviewer Comments	kjvestal Fri, 21 Feb 2014 17:50:47 GMT Rollback: This course must be rolled back and approved again in order to redirect to the AA Vice Chancellor. Thank you!	
	Course Title/Description Change Type		Major Content Change
	Course Pre-or Corequisite(s)		MATH 2564.
CHEM 3514	Course Last Update Effective	Fall 2014	Fall 2017

	Course Catalog Description	Chemical thermodynamics, phase equilibria, chemical equilibrium; introduction to the structure and properties of solution, liquid state and solid state; and chemical kinetics. Lecture and recitation 4 hours per week.	Second semester of a 2-semester course in physical chemistry aimed for B.S. chemistry majors/minors with topics covering the laws of thermodynamics, phase chemical equilibria; structure and properties of solutions, chemical potential, and chemical kinetics. Lecture and recitation 4 hours per week. Students cannot earn credit for both CHEM 3453 and CHEM 3514.
	Justification	CHEM 3514 Physical Chemistry II and its first semester counterpart, CHEM 3504 Physical Chemistry I, are among the most difficult courses at our University. It is a disservice to the students who take it to not to have the option to earn honors credit for it, while much less demanding classes have honors sections available.	Updating description. Changing co-requisite.
	Reviewer Comments	kjvestal Fri, 21 Feb 2014 17:50:54 GMT Rollback: This course must be rolled back and approved again in order to redirect to the AA Vice Chancellor. Thank you!	
	Course Title/Description Change Type		Major Content Change
	Course Corequisite(s)		Chemistry majors and chemistry minors must enroll in CHEM 3512L concurrently.
CHEM 3603	Course Catalog Description	Lecture 3 hours per week. Primarily for non-majors and B.A. chemistry majors who do not take the CHEM 3703 and CHEM 3702L and CHEM 3713 and CHEM 3712L sequence.	Introduction to organic compounds including alkanes, haloalkanes, alkenes and alkynes; properties including basic stereochemistry and reactions including nucleophilic substitution, elimination, and electrophilic addition reactions. Lecture 3 hours per week.
	Course Prerequisite(s)	(CHEM 1123 and CHEM 1121L) or (CHEM 1123H and CHEM 1121M) or (CHEM 1223 and CHEM 1221L) or (CHEM 1133 and CHEM 1131L).	(CHEM 1123 and CHEM 1121L) or (CHEM 1123H and CHEM 1121M) or (CHEM 1223 and CHEM 1221L).
	Course Last Update Effective		Fall 2017
	Course Title/Description Change Type		Major Content Change
	Justification		Adding missing course description.
	Reviewer Comments		wstites Mon, 13 Feb 2017 22:02:23 GMT Revised description for clarity and fixed typos.
CHEM 3703	Course Long Title	Organic Chemistry I Lecture for Majors	Organic Chemistry I Lecture for Chemistry Majors
	Course Catalog Description	Basic chemistry of the compounds of carbon. Primarily for B.S. and B.A. chemistry majors. Lecture 3 hours per week.	In-depth introduction to organic compounds including alkanes, haloalkanes, alkenes and alkynes; properties including basic stereochemistry and reactions including nucleophilic substitution, elimination, and electrophilic addition. Lecture 3 hours per week.
	Course Prerequisite(s)	Chemistry major; (CHEM 1123 and CHEM 1121L) or (CHEM 1123H and CHEM 1121M) or (CHEM 1223 and CHEM 1221L).	Chemistry major or minor and (CHEM 1123 and CHEM 1121L) or (CHEM 1123H and CHEM 1121M) or (CHEM 1223 and CHEM 1221L).
	Course Corequisite(s)	CHEM 3702L and related course component drill section for CHEM 3703.	CHEM 3702L and related course component drill sections for CHEM 3703 and CHEM 3702L.
	Course Last Update Effective		Fall 2017
	Course Title/Description Change Type		Major Content Change
	Justification		Rewritten course description. Updated pre-requisite.
	Reviewer Comments		wstites Mon, 13 Feb 2017 22:05:16 GMT Revised course description for clarity.

CHEM 3713	Course Long Title	Organic Chemistry II Lecture for Majors	Organic Chemistry II Lecture for Chemistry Majors
	Course Catalog Description	Basic chemistry of the compounds of carbon. Primarily for B.S. and B.A. chemistry majors. Lecture 3 hours per week.	Continuation of in-depth coverage of the basic chemistry of the compounds of carbon. Properties and reactions of aromatic and carbonyl functional groups. Lecture 3 hours per week.
	Course Prerequisite(s)	CHEM 3703 and CHEM 3702L.	Chemistry major or minor and CHEM 3703 and CHEM 3702L.
	Course Corequisite(s)	CHEM 3712L and related course component drill section for CHEM 3713.	CHEM 3712L and related course component drill sections for CHEM 3713 and CHEM 3712L.
	Course Last Update Effective		Fall 2017
	Course Title/Description Change Type		Major Content Change
	Justification		Updating course description. Adding prerequisite.
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 4443	Added		
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	Fall 2017
	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
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 5483		Added	
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		<p>kjvestal Tue, 14 Feb 2017 21:27:23 GMT Rollback: Rolling back per Heather Jorgensen for additional edits.</p> <p>kjvestal Tue, 14 Feb 2017 21:37:06 GMT Rollback: Rolling back for description edit.</p> <p>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.</p> <p>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.</p>
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		<p>rcc003 Fri, 03 Mar 2017 14:43:25 GMT pasted updated description from submitter.</p> <p>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.</p>
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 1123H	Course Catalog Description	Presents the topics of periodicity, bonding, stoichiometry, thermodynamics, kinetics, and chemical equilibrium in detail. Lecture 3 hours per week. Upon successful completion of CHEM 1123 with a grade of "C" or better, credit for CHEM 1103 can be requested by students who passed the CHEM 1103 proficiency exam.	Presents the topics of periodicity, bonding, stoichiometry, thermodynamics, kinetics, and chemical equilibrium in detail. Lecture 3 hours per week. Students with satisfactory performance on the proficiency exam and who complete CHEM 1123H on the UAF campus with a grade of "C" or better can request credit for CHEM 1103.
	Course Prerequisite(s)	CHEM 1103 (or CHEM 1213 or satisfactory performance on the chemistry proficiency examination) and MATH 1203 or higher or satisfactory performance on the mathematics proficiency examination.	Honors candidacy and CHEM 1103 (or CHEM 1203, or satisfactory performance on the chemistry pro#iciency exam).
	Course Last Update Effective		Spring 2018
	Course Title/Description Change Type		Major Content Change
	Course Pre-or Corequisite(s)		MATH 1284C or higher.
	Justification		Updating catalog description. Refining pre and co-requisites.
	Reviewer Comments		wstites Mon, 13 Feb 2017 21:51:28 GMT Fixed typo agriffin Fri, 14 Apr 2017 20:51:18 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 3203H	Course Catalog Description	Survey of chemistry used in criminal investigations. Topics may include detection and identification of drugs, alcohol, toxins, explosives and gun powder residue. Chemical analysis of paint, ink, paper, soil, glass and fibers. Chemical detection of blood and fingerprints. Extraction of DNA from evidence, DNA fingerprinting.	Survey of chemistry used in criminal investigations. Topics may include detection and identification of drugs, alcohol, toxins, explosives and gun powder residue. Chemical analysis of paint, ink, paper, soil, glass and fibers. Chemical detection of blood and fingerprints. Extraction of DNA from evidence, DNA fingerprinting. As a requirement of honors designation additional honors-level work is required of students enrolled in this section.

	Course Prerequisite(s)	CHEM 3613 (recommended) or CHEM 2613.	CHEM 2613, or CHEM 3613 (recommended), or CHEM 3613H, or CHEM 3713.
	Course Cross Listed	[object Object]	
	Course Offering Type	Regular	Irregular
	Course Offering Term(s)	Fall	
	Course Offering Year	Every Year	
	Course Last Update Effective		Fall 2017
	Course Title/Description Change Type		Major Content Change
	Justification		Correcting prerequisite to include all second sequence organic chemistry courses. Changing to irregular.
	Reviewer Comments		kjvestal Tue, 14 Feb 2017 21:50:09 GMT Removed CHEM 3203 as a cross listed course. Honors courses are set up as equivalents, rather than cross listings, with the regular version of the courses.
CHEM 3451L	Course Last Update Effective	Spring 2015	Fall 2017
	Course Catalog Description	Techniques of physical measurements of chemical systems; error analysis and report writing. Experiments in thermochemistry, kinetics, and measurement of properties of matter using a variety of techniques. Laboratory 4 hours per week.	Experimental measurements of the physical properties, chemical systems, error analysis and report writing. Experiments cover topics in thermochemistry, heat capacity, chemical kinetics, spectroscopy, and phase/chemical equilibrium using a variety of physical chemistry techniques. Laboratory 4 hours per week.
	Course Corequisite(s)	CHEM 3453.	Chemistry majors and chemistry minors must enroll in CHEM 3453 concurrently.
	Justification	Updated component and contact hours to match ISIS.	Updating description. Adding prerequisites. Updating co-requisite.
	Course Title/Description Change Type		Major Content Change
	Course Prerequisite(s)		CHEM 2261L and PHYS 2031L (or PHYS 2074).
	Reviewer Comments		rcc003 Mon, 20 Feb 2017 21:48:39 GMT Grammar.
CHEM 3512L	Course Last Update Effective	Spring 2015	Fall 2017
	Course Catalog Description	Experimental studies of molecular structure, thermochemistry, and chemical kinetics, and the determination of other physicochemical properties of matter. Laboratory 8 hours per week.	Experimental studies of molecular structure, thermochemistry, and chemical kinetics, and the determination of other physicochemical properties of matter. Laboratory 8 hours per week. Students cannot earn credit for both CHEM 3451L and CHEM 3512L.
	Course Pre-or Corequisite(s)	CHEM 3504.	
	Justification	Updated component and contact hours to match ISIS.	Updating description. Changing pre and co-requisites.
	Course Title/Description Change Type		Major Content Change
	Course Prerequisite(s)		CHEM 2261L and PHYS 2031L (or PHYS 2074).
	Course Corequisite(s)		Chemistry majors and chemistry minors must take CHEM 3514 concurrently.
	Reviewer Comments		rcc003 Wed, 08 Mar 2017 15:02:44 GMT grammar
CHEM 3602M	Course Corequisite(s)	CHEM 3603H and related course component drill section for CHEM 3602M.	CHEM 3603H and related course component drill sections for CHEM 3603H and CHEM 3602M.
	Course Last Update Effective		Fall 2017
	Course Title/Description Change Type		Major Content Change

	Course Catalog Description		Introduction to basic techniques for separation, purification, and identification of organic compounds. Drill lecture-discussion (1hr/wk) and laboratory (4hr/wk). Writing component. Required drill.
	Course Prerequisite(s)		Honors candidacy.
	Justification		Adding missing description. Updating co-requisite.
	Reviewer Comments		kjvestal Tue, 14 Feb 2017 16:33:38 GMT Rollback: Rolling back per Ryan Cochran. rcc003 Mon, 20 Feb 2017 22:03:12 GMT Removed lab as coreq. rcc003 Mon, 20 Feb 2017 22:05:26 GMT Incorrectly removed lab drill as coreq.
CHEM 3603H	Course Prerequisite(s)	(CHEM 1123 and CHEM 1121L) or (CHEM 1123H and CHEM 1121M) or (CHEM 1223 and CHEM 1221L) or (CHEM 1133 and CHEM 1131L).	Honors candidacy and ((CHEM 1123 and CHEM 1121L) or (CHEM 1123H and CHEM 1121M) or (CHEM 1223 and CHEM 1221L)).
	Course Corequisite(s)	CHEM 3602M and related course component drill section for CHEM 3603H.	CHEM 3602M and related course component drill sections for CHEM 3603H and CHEM 3602M.
	Course Last Update Effective		Fall 2017
	Course Title/Description Change Type		Major Content Change
	Course Catalog Description		In-depth introduction to organic compounds; properties and reactions. Including alkanes, haloalkanes, alkenes and alkynes; nucleophilic substitution, elimination, and electrophilic addition reactions. Lecture 3 hours per week.
	Justification		Adding missing course description.
	Reviewer Comments		wstites Mon, 13 Feb 2017 21:54:30 GMT Fixed typo in description and pre-reqs
CHEM 3611L	Course Last Update Effective	Spring 2015	Fall 2017
	Course Catalog Description	Laboratory exercise in organic chemistry. Meets 3 hours per week.	Continuation of CHEM 3601L and introduction to basic techniques of synthesis, isolation, and determination of structure and reactivity of organic compounds. Laboratory exercises in organic chemistry. Meets 3 hours per week.
	Course Corequisite(s)	CHEM 3613.	CHEM 3613 and related course component drill for CHEM 3613.
	Justification	Updated component and contact hours to match ISIS.	Adding course description, and prerequisite.
	Course Title/Description Change Type		Major Content Change
	Course Prerequisite(s)		CHEM 3601L.
	Reviewer Comments		wstites Mon, 13 Feb 2017 21:56:23 GMT Fixed typo.
CHEM 3612M	Course Corequisite(s)	CHEM 3613H and related course component drill section for CHEM 3612M.	CHEM 3613H and related course component drill sections for CHEM 3612M and CHEM 3613H.
	Course Last Update Effective		Fall 2017
	Course Title/Description Change Type		Major Content Change
	Course Catalog Description		Continuation of CHEM 3602M and introduction to basic techniques of synthesis, isolation, and determination of structure and reactivity of organic compounds. Drill lecture-discussion (1 hour/wk) and laboratory (4 hours/wk). Writing component. Drill required.
	Course Prerequisite(s)		Honors candidacy and CHEM 3602M.
	Justification		Adding missing course description. Adding prerequisite.

	Reviewer Comments		wstites Mon, 13 Feb 2017 22:28:53 GMT Fixed time commitment description.
CHEM 3702L	Course Last Update Effective	Spring 2015	Fall 2017
	Course Long Title	Organic Chemistry I Lab for Majors	Organic Chemistry I Lab for Chemistry Majors
	Course Catalog Description	Introduction to basic techniques for separation, purification, and identification of organic compounds. Lecture-discussion 1 hour, laboratory 3 hours per week.	Introduction to basic techniques for separation, purification, and identification of organic compounds. Drill lecture-discussion (1hr/wk) and laboratory (4hr/wk). Writing component. Required drill.
	Course Corequisite(s)	CHEM 3703 and related course component drill section for CHEM 3702L.	CHEM 3703 and related course component drill sections for CHEM 3703 and CHEM 3702L.
	Justification	Updated component and contact hours to match ISIS.	Updating course description. Adding prerequisite.
	Course Title/Description Change Type		Major Content Change
	Course Prerequisite(s)		Chemistry major or minor.
	Reviewer Comments		kjvestal Tue, 14 Feb 2017 16:34:17 GMT Rollback: Rolling back per Ryan Cochran.
CHEM 3712L	Course Last Update Effective	Spring 2015	Fall 2017
	Course Long Title	Organic Chemistry II Lab for Majors	Organic Chemistry II Lab for Chemistry Majors
	Course Catalog Description	Continuation of CHEM 3702L and introduction to basic techniques of synthesis, isolation, and determination of structure and reactivity of organic compounds. Lecture-discussion and laboratory 8 hours per week.	Continuation of CHEM 3702L and introduction to basic techniques of synthesis, isolation, and determination of structure and reactivity of organic compounds. Drill lecture-discussion (1 hour/wk) and laboratory (4 hours/wk). Writing component. Drill required.
	Course Corequisite(s)	CHEM 3713 and related course component drill section for CHEM 3712L.	CHEM 3713 and related course component drill sections for CHEM 3713 and CHEM 3712L.
	Justification	Updated component and contact hours to match ISIS.	Updating description. Adding prerequisite.
	Course Title/Description Change Type		Major Content Change
	Course Prerequisite(s)		Chemistry major or minor and CHEM 3702L.
	Reviewer Comments		wstites Mon, 13 Feb 2017 22:26:48 GMT Fixed described time commitment.
CHEM 400V	Course Last Update Effective	Summer 2016	Fall 2017
	Course Catalog Description	Research problems.	Research problems. Students need to enroll in their supervising faculty mentor's section. CHBC students conducting research under a faculty mentor outside of CHBC must enroll in the CHBC chair's section. Additionally, honors students need the approval of the CHBC department honors advisor. Honors students must complete thesis in senior year.
	Course Create Honors Course?	No	Yes
	Justification	Proposing off campus offering for study abroad summer 2016.	Adding clarifying language and honors section.
	Course Title/Description Change Type		Major Content Change
	Reviewer Comments		rcc003 Wed, 08 Mar 2017 15:05:44 GMT shortened description
CHEM 4011H	Course Repeat Limit - Units	8	2

	Course Catalog Description	Research seminar for chemistry majors enrolled in the program. Enrollment is required each spring semester for honors students. Senior honors students must make one research presentation to graduate with honors.	Research seminar for chemistry majors enrolled in the honors program. Enrollment is required the spring semester of the junior and senior years for honors students. Senior honors students must make one research presentation to graduate with honors.
	Course Audit Allowed	Yes	No
	Course Prerequisite(s)	Junior standing.	Honors candidacy, chemistry major and junior or senior standing.
	Course Last Update Effective		Fall 2017
	Course Title/Description Change Type		Major Content Change
	Course Topic Names		Honors Chemistry
	Justification		Clarifying language. Correcting prerequisites.
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 498V		Deleted	
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.
ENGL 1014		Added	
ENGL 0002		Deleted	
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
JOUR 4483			Added
MATH 1204C			Added
MATH 1313C			Added
PLSC 2003	Course Delivery Method	On campus	On campus
	Course Last Update Effective		Spring 2017
	Justification		To allow for official online delivery of this class (it has been delivered online already for five years through Global Campus).
PLSC 3593			Added
PORT 3003			Added
PORT 3103			Added
PORT 3203			Added
SOCI 2033	Course Last Update Effective	Fall 2017	Spring 2018
	Course Delivery Method	On campus	On campus
	Justification	to update and clarify course content	adding online/web-based delivery
	Reviewer Comments		agriffin Fri, 14 Apr 2017 20:50:24 GMT Changed effective catalog date from summer 2017 to spring 2018 due to approval timeline. It is too late to complete approval process for summer implementation.
SPAN 4623			Added
SPAN 3113H			Added
WLLC 6553			Added