

## MEMORANDUM

TO: Deans and Chairs  
 FROM: Becky Bitter, Assistant Registrar  
 DATE: January 23, 2014  
 SUBJECT: Minor Change Bulletin No.5

The courses listed below reflect the minor curricular changes approved by the catalog editor since approval of the last Minor Change Bulletin. The column to the far right indicates the date each change becomes effective.

Subject	Course Number	New Revise Drop	Current	Proposed	Effective Date
ANIM SCI	313	Revise	<b>Feeds and Feeding 4 (3-3)</b> Course Prerequisite: BIOLOGY 106. Utilization, practices, requirements, nutritive characteristics, and calculations of rations for animals. Field trip required. Cooperative: Open to UI degree-seeking students.	<b>Feeds and Feeding 4 (3-3)</b> Course Prerequisite: BIOLOGY 106; <u>MATH 106</u> . Utilization, practices, requirements, nutritive characteristics, and calculations of rations for animals. Field trip required. Cooperative: Open to UI degree-seeking students.	8-14
ANIM SCI	346	Revise	<b>Introduction to Skeletal Muscle Physiology 3</b> Structure, function and regulation of skeletal muscle; embryonic, neonatal, postnatal growth/atrophy; muscle-specific proteins. Cooperative: Open to UI degree-seeking students.	<b>Introduction to Skeletal Muscle Physiology 3</b> <u>Course Prerequisite: BIOLOGY 106.</u> Structure, function and regulation of skeletal muscle; embryonic, neonatal, postnatal growth/atrophy; muscle-specific proteins. Cooperative: Open to UI degree-seeking students.	8-14
ANIM SCI	451	Revise	<b>[M] Endocrine Physiology 3</b> <del>Course Prerequisite: BIOLOGY 106; BIOLOGY 107; MBIOS 303 or concurrent enrollment; ANIM SCI 440, BIOLOGY 350, 352, or 353.</del> Anatomy, physiology, and biochemistry of endocrine systems and hormone action; emphasis on comparative, veterinary, and biomedical models. Credit not granted for both ANIM SCI 451 and ANIM SCI 551. Offered at 400 and 500 level. Cooperative: Open to UI degree-seeking students.	<b>[M] Endocrine Physiology 3</b> <u>Course Prerequisite: BIOLOGY 106; BIOLOGY 107; one of the following: ANIM SCI S 440, BIOLOGY 352, MBIOS 303, or MBIOS 401.</u> Anatomy, physiology, and biochemistry of endocrine systems and hormone action; emphasis on comparative, veterinary, and biomedical models. Credit not granted for both ANIM SCI 451 and ANIM SCI 551. Offered at 400 and 500 level. Cooperative: Open to UI degree-seeking students.	8-14

CE	538	Revise	<b>Earthquake Engineering 3</b> Seismology, size of earthquakes, seismic ground motion, seismic risk, behavior of structures subjected to earthquake loading seismic response spectra, seismic design codes, lateral force-resisting systems, detailing for inelastic seismic response.	<b>Earthquake Engineering 3</b> Seismology, size of earthquakes, seismic ground motion, seismic risk, behavior of structures subjected to earthquake loading seismic response spectra, seismic design codes, lateral force-resisting systems, detailing for inelastic seismic response. <u>Recommended preparation: CE 512. Cooperative: Open to UI degree-seeking students.</u>	8-14
CHEM	105	Revise	<b>[PSCI] Principles of Chemistry I 4 (3-3)</b> Course Prerequisite: MATH 106 or concurrent enrollment, or ALEKS math placement score of <u>50%</u> , or concurrent enrollment in or credit for Math 107, 108, 140, 171, 172, 182, 202, or ENGR 107. Stoichiometry, structure, gases, liquids, solids, solutions, thermodynamics, kinetics, equilibrium, volumetric, and gravimetric analysis. Recommended preparation: One year high school chemistry or CHEM 101.	<b>[PSCI] Principles of Chemistry I 4 (3-3)</b> Course Prerequisite: MATH 106 or concurrent enrollment, or ALEKS math placement score of <u>70%</u> , or concurrent enrollment in or credit for Math 107, 108, 140, 171, 172, 182, 202, or ENGR 107. Stoichiometry, structure, gases, liquids, solids, solutions, thermodynamics, kinetics, equilibrium, volumetric, and gravimetric analysis. Recommended preparation: One year high school chemistry or CHEM 101.	8-13
CHEM	106	Revise	<b>Principles of Chemistry II 4 (3-3)</b> Course Prerequisite: CHEM 105 with a grade of C or better; MATH 106, 107, or 108 with a grade of C or better, or MATH 108 or concurrent enrollment, or ALEKS math placement score of <u>50%</u> . Acid-base, ionic, molecular, solubility, oxidation/reduction equilibria; kinetics, electrochemistry; systematic chemistry of the elements; coordination compounds. Credit not granted for both CHEM 106 and 116.	<b>Principles of Chemistry II 4 (3-3)</b> Course Prerequisite: CHEM 105 with a grade of C or better; MATH 106, 107, or 108 with a grade of C or better, or MATH 108 or concurrent enrollment, or ALEKS math placement score of <u>70%</u> . Acid-base, ionic, molecular, solubility, oxidation/reduction equilibria; kinetics, electrochemistry; systematic chemistry of the elements; coordination compounds. Credit not granted for both CHEM 106 and 116.	8-13
CHEM	550	Revise	<b>Special Topics in Nuclear Processes and Radioactive Waste Management V 1-3</b> May be repeated for credit; cumulative maximum 6 hours. <del>Course Prerequisite: By instructor permission.</del>	<b>Special Topics in Nuclear Processes and Radioactive Waste Management V 1-3</b> May be repeated for credit; cumulative maximum 6 hours. Fundamental chemistry of the nuclear industry, chemical	8-14

			Fundamental chemistry of the nuclear industry, chemical processing and waste management.	processing and waste management.	
COM	517	Revise	<del>Health Communication and Social Development</del> 3 Explores and tests role of mediated communication in the causes of and solutions for health problems, particularly among young people.	<u>Youth and the Media</u> 3 Explores how children, adolescents, and emerging adults use media in decision making and identity formation, health, and civic affairs.	8-14
COUN PSY	518	Revise	<del>Theoretical Foundations of Group Counseling</del> 3 Course Prerequisite: COUN PSY 512 or concurrent enrollment. History, philosophy and theoretical foundations; the group counselor, members, and issues in group counseling. Cooperative: Open to UI degree-seeking students.	<u>Theoretical Foundations of Group Counseling</u> 3 Course Prerequisite: <u>COUN PSY 511</u> . History, philosophy and theoretical foundations; the group counselor, members, and issues in group counseling. Cooperative: Open to UI degree-seeking students.	8-14
CS	360	Revise	<del>Systems Programming</del> 4 (3-3) Course Prerequisite: CS 224 with a C or better; CS 261 with a C or better. Implementation of systems programs, concepts of computer operating systems; laboratory experience in using operating system facilities.	<u>Systems Programming</u> 4 (3-3) Course Prerequisite: CS 224 with a C or better; <u>CS 251 with a C or better, or CS 261 with a C or better</u> . Implementation of systems programs, concepts of computer operating systems; laboratory experience in using operating system facilities.	8-14
CS	420	Revise	<del>[CAPS] Software Engineering in Practice</del> 3 Course Prerequisite: CS 320 with a C or better; CS 360 with a C or better; senior standing. Development of software in a team environment; project management; unit and integration testing, bug tracking, configuration management, software process models; object-oriented design with UML.	<u>[CAPS] Software Design Project I</u> 3 Course Prerequisite: CS 320 with a C or better; CS 360 with a C or better; senior standing. Development of software in a team environment; project management; unit and integration testing, bug tracking, configuration management, software process models; object-oriented design with UML.	8-14
CST M	201	Revise	<del>Materials I</del> 3 Course Prerequisite: Certified major in Construction Management. Introduction to construction materials; primary materials used in below-grade substructures and above-grade superstructures using	<u>Materials I</u> 3 Course Prerequisite: Certified major in Construction Management <u>or Architecture</u> . Introduction to construction materials; primary materials used in below-grade substructures and above-grade superstructures using	8-14

			Construction Specification Institute (CSI) format.	Construction Specification Institute (CSI) format.	
CST M	202	Revise	<b>Materials II</b> 3 Course Prerequisite: CST M 201; certified major in Construction Management. Introduction to primary materials in construction of building envelopes, interiors, interior surfaces and finishes using Construction Specification Institute (CSI) format.	<b>Materials II</b> 3 Course Prerequisite: CST M 201; certified major in Construction Management <u>or Architecture</u> . Introduction to primary materials in construction of building envelopes, interiors, interior surfaces and finishes using Construction Specification Institute (CSI) format.	8-14
CST M	252	Revise	<b>Construction Administration and Documentation</b> 4 (3-2) Course Prerequisite: CST M 102; certified major in Construction Management. Study and understanding of administrative procedures found within construction projects and respective documentation.	<b>Construction Administration and Documentation</b> 4 (3-2) Course Prerequisite: CST M 102; <u>CST M 201</u> ; certified major in Construction Management. Study and understanding of administrative procedures found within construction projects and respective documentation.	8-14
CST M	362	Revise	<b>[M] Legal Aspects of Construction and Design</b> 3 Statutory and common law governing the practice of design and construction in the US; emphasis in architecture and construction project contract administration.	<b>[M] Legal Aspects of Construction and Design</b> 3 <u>Course Prerequisite: CST M 252; B LAW 210; certified major in Construction Management</u> . Statutory and common law governing the practice of design and construction in the US; emphasis in architecture and construction project contract administration.	8-14
CST M	451	Revise	<b>Delivery Systems</b> 3 Course Prerequisite: CST M <del>371</del> ; certified major in Construction Management. Design/ construction process and project delivery systems/approaches; analysis of construction management: the construction management process.	<b>Delivery Systems</b> 3 Course Prerequisite: CST M <u>252</u> ; certified major in Construction Management <u>or junior status in Architecture, Interior Design, Landscape Architecture, or Civil Engineering</u> . Design/ construction process and project delivery systems/approaches; analysis of construction management; the construction management process.	8-14
CST M	460	Revise	<b>Construction Cost Accounting</b> 3 (2-3) Course Prerequisite: CST M 451; certified major in Construction Management. Examination of cost accounting	<b>Construction Cost Accounting</b> 3 (2-3) Course Prerequisite: CST M <u>371</u> ; certified major in Construction Management. Examination of cost accounting	8-14

			utilized for specific project control as well as overall company control.	utilized for specific project control as well as overall company control.	
CST M	473	Revise	<b>Human Productivity in Construction 3</b> Leadership and management concepts and methods applied to human behavior to enhance motivation, productivity and safety in construction.	<b>Human Productivity in Construction 3 Course</b> <u>Prerequisite: CST M 301 or MGMT 301; certified major in Construction Management.</u> Leadership and management concepts and methods applied to human behavior to enhance motivation, productivity and safety in construction.	8-14
CST M	475	Revise	<b>[M] Senior Capstone Project 3</b> (2-3) Course Prerequisite: CST M 460, <del>MGMT 301</del> ; certified major in Construction Management. Simulation of real world competition for Design-Build and/or CM at Risk projects; equipment, productivity, safety requirements, and finance.	<b>[M] Senior Capstone Project 3</b> (2-3) Course Prerequisite: CST M 451; <u>CST M 462</u> ; certified major in Construction Management. Simulation of real world competition for Design-Build and/or CM at Risk projects; equipment, productivity, safety requirements, and finance.	1-15
E M	520	Revise	<del><b>Construction Project Management 3</b></del> Construction project bids, proposals, contracts, project delivery/organization; estimating, scheduling, resource loading, project monitoring and controls, safety and quality	<b>Contract Project Management 3</b> <u>Contract</u> project bids, proposals, contracts, project delivery/organization; estimating, scheduling, resource loading, project monitoring and controls, safety and quality.	8-14
E M	522	Revise	<del><b>Supervision and Leadership for Engineering and Technology Managers 3</b></del> Strategies of supervision with practical application techniques presented to create individual and organizational motivation.	<b>Leadership, Supervision, and Management 3</b> Strategies of supervision with practical application techniques presented to create individual and organizational motivation.	8-14
ECE	424	Revise	<b>Computer Architecture and Design 3</b> Course Prerequisite: ECE 234. Architecture, organization and design of modern digital computers; instruction sets, computer arithmetic, pipelining, memory hierarchy, storage and input/output topics.	<b>Computer Architecture and Design 3</b> Course Prerequisite: ECE 234 or <u>CS 261</u> . Architecture, organization and design of modern digital computers; instruction sets, computer arithmetic, pipelining, memory hierarchy, storage and input/output topics.	8-14
ECONS	425	Revise	<b>Industrial Organization 3</b> Course Prerequisite: ECONS	<b>Industrial Organization 3</b> Course Prerequisite: ECONS	1-15

			301; <del>ECONS 311</del> . Economic theories of firm behavior and the influence of market industry parameters; buyer/seller concentration, information asymmetries, product differentiation, and entry conditions.	301. Economic theories of firm behavior and the influence of market industry parameters; buyer/seller concentration, information asymmetries, product differentiation, and entry conditions.	
<b>ED PSYCH</b>	<b>568</b>	<b>Revise</b>	<b>Quasi-Experimental Design 3</b> Course Prerequisite: ED PSYCH 505; ED RES 565. Integration and application of research skills in writing proposals, dissertations, papers for publication; interpreting, critiquing, and synthesizing research studies.	<b>Quasi-Experimental Design 3</b> Course Prerequisite: ED PSYCH 505 or ED RES 563; ED RES 565. Integration and application of research skills in writing proposals, dissertations, papers for publication; interpreting, critiquing, and synthesizing research studies.	<b>8-14</b>
<b>INTERDIS</b>	<b>591</b>	<b>Revise</b>	<b>Interdisciplinary Studies 1</b> <del>May be repeated for credit.</del> Contemporary issues in interdisciplinary education and research. Open to all interested students.	<b>Interdisciplinary Studies 1</b> Contemporary issues in interdisciplinary education and research. Open to all interested students.	<b>8-14</b>
<b>INTERDIS</b>	<b>698</b>	<b>Drop</b>	<b>Continuous Enrollment Status 0</b> This course (no credit earned) satisfies continuous enrollment status for graduate students who are not otherwise enrolled.	--N/A--	<b>5-14</b>
<b>INTERDIS</b>	<b>899</b>	<b>Drop</b>	<b>Continuing Doctoral Status 0</b> May be repeated for credit; cumulative maximum 0 hours. Continuing Doctoral Status.	--N/A--	<b>5-14</b>
<b>MATH</b>	<b>103</b>	<b>Revise</b>	<b>Algebra Methods and Introduction to Functions 3</b> Course Prerequisite: ALEKS math placement score of 30%. Fundamental algebraic operations and concepts, linear systems and inequalities, polynomial and rational functions, introduction to exponential and logarithmic functions.	<b>Algebra Methods and Introduction to Functions 3</b> Course Prerequisite: Math 100 with an S or ALEKS math placement score of 30%. Fundamental algebraic operations and concepts, linear systems and inequalities, polynomial and rational functions, introduction to exponential and logarithmic functions.	<b>5-14</b>
<b>MATH</b>	<b>172</b>	<b>Revise</b>	<b>Calculus II 4 (3-3) Course</b> Prerequisite: MATH 171 with a C or better. Techniques and applications of one-variable calculus; estimations; series,	<b>Calculus II 4 (3-3) Course</b> Prerequisite: MATH 171 with a C or better. Techniques and applications of one-variable calculus; estimations; series,	<b>8-13</b>

			derivative of a vector function.	derivative of a vector function. <u>Credit not granted for both MATH 172 and 182.</u>	
<b>MATH</b>	<b>182</b>	<b>Revise</b>	<b>Honors Calculus II 4 (3-3)</b> Course Prerequisite: MATH 171 with a C or better; by department permission only. Single variable calculus, series, with emphasis on conceptual development and problem solving.	<b>Honors Calculus II 4 (3-3)</b> Course Prerequisite: MATH 171 with a C or better; by department permission only. Single variable calculus, series, with emphasis on conceptual development and problem solving. <u>Credit not granted for both MATH 172 and 182.</u>	<b>8-13</b>
<b>MATH</b>	<b>273</b>	<b>Revise</b>	<b>Calculus III 2 Course</b> Prerequisite: MATH 172 with a C or better, or MATH 182 with a C or better. Calculus of functions of several variables.	<b>Calculus III 2 Course</b> Prerequisite: MATH 172 with a C or better, or MATH 182 with a C or better. Calculus of functions of several variables. <u>Credit not granted for both MATH 273 and 283.</u>	<b>8-13</b>
<b>MATH</b>	<b>283</b>	<b>Revise</b>	<b>Honors Calculus III 2 Course</b> Prerequisite: MATH 182 or by department permission. Multivariable calculus with emphasis on conceptual development and problem solving.	<b>Honors Calculus III 2 Course</b> Prerequisite: MATH 182 with a C or better. Multivariable calculus with emphasis on conceptual development and problem solving. <u>Credit not granted for both MATH 273 and 283.</u>	<b>8-13</b>
<b>MED S</b>	<b>ALL</b>	<b>Revise</b>	<b>ALL MED S courses with cooperative phrase: "Cooperative: Open to UI degree-seeking students".</b>	<b>Remove Cooperative phrase from all MED S courses.</b> Due to the move of the Pullman WWAMI Medical Education Program to Spokane Riverpoint Campus, Effective Fall 2014, no MED S courses should continue to be listed in the WSU Courses Catalog as cooperative courses with the University of Idaho.	<b>8-14</b>
<b>MEDS</b>	<b>505</b>	<b>Revise</b>	<b>Medical Preceptorship 2 (0-4)</b> Course Prerequisite: For WWAMI students only. First-year medical students gain experience and insight into medical practice situations; students are stationed in physician offices at WWAMI sites. S, F grading.	<b>Medical Preceptorship 1 (0-4)</b> <u>May be repeated for credit; cumulative maximum 2 hours.</u> Course Prerequisite: WWAMI students only. Medical Students work in local clinics, physicians' offices, emergency rooms, hospitals; 4 hours minimum per week. S, F grading.	<b>8-14</b>
<b>PHARMACY</b>	<b>565</b>	<b>Revise</b>	<b>Parenteral Products 2 (0-4)</b> Course Prerequisite: PHARDSCI 519; PHARMACY 554.	<b>Parenteral Products 2 (0-4)</b> Course Prerequisite: PHARDSCI 519. Preparation and	<b>8-14</b>

			Preparation and administration of compounded parenteral products; patient case discussions and student presentations.	administration of compounded parenteral products; patient case discussions and student presentations.	
<b>SHS</b>	<b>118</b>	<b>Drop</b>	<b>Accent Reduction for International Students 2</b> May be repeated for credit; cumulative maximum 4 hours. Instruction in production of the sounds and pattern of general American speech. S, F grading.	--N/A--	<b>5-14</b>
<b>SHS</b>	<b>373</b>	<b>Drop</b>	<b>Clinical Phonetics 2</b> Analysis and transcription of speech sounds as it relates to the remediating of unintelligible or disordered speech.	--N/A--	<b>5-14</b>
<b>SHS</b>	<b>503</b>	<b>Drop</b>	<b>Research Methods II 2</b> Experimental and descriptive designs, application of statistics, analysis of statistical results. SHS graduate student; all undergraduate prerequisite courses completed.	--N/A--	<b>5-14</b>
<b>SHS</b>	<b>582</b>	<b>Drop</b>	<b>Clinical Perspectives 3</b> Theory and clinical experience designed to assist students in integrating course work into a clinical perspective. SHS graduate student; all undergraduate prerequisite courses completed.	--N/A--	<b>5-14</b>