M E M O R A N D U M

TO: Deans and Chairs

FROM: Heather Morgan, Assistant Registrar

DATE: January 12, 2026

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	**440**	**Revise**	**[M] Physiology of Domestic Animals** 3 ~~Course Prerequisite: BIOLOGY 106; BIOLOGY 107.~~ Basic animal functions; relationship and difference between domestic animals; measurement of functional processes. Typically offered Fall.	**[M] Physiology of Domestic Animals** 3 Course Prerequisite: ANIM SCI 240; BIOLOGY 106; BIOLOGY 107. Basic animal functions; relationship and difference between domestic animals; measurement of functional processes. Typically offered Fall.	**8-26**
BIO ENG	**310**	**Revise**	**Bioengineering Transport Phenomena** 3 ~~Course Prerequisite: CHE 201 with a C or better; MATH 315 with a C or better; BIO ENG 210, with a C or better, or concurrent enrollment.~~ Introduction and application of the concepts of momentum, mass, and thermal energy transport in the context of problems of interest in biology, medicine, and engineering. Typically offered Fall.	**Bioengineering Transport Phenomena** 3 Course Prerequisite: BIO ENG 201 with a C or better; MATH 315 with a C or better; BIO ENG 210, with a C or better, or concurrent enrollment. Introduction and application of the concepts of momentum, mass, and thermal energy transport in the context of problems of interest in biology, medicine, and engineering. Typically offered Fall.	**8-26**
BIOLOGY	**519**	**Revise**	~~**Introduction to Population Genetics**~~ 3 Survey of basic population and quantitative genetics. Cooperative: Open to UI degree-seeking students.	**Introduction to Population and Quantitative Genetics** 3 Survey of basic population and quantitative genetics. Cooperative: Open to UI degree-seeking students.	**8-26**
CES / PHIL	**406**	**Revise**	~~**Philosophy and Race**~~ 3 Course Prerequisite: 3 ~~hours~~ in PHIL or	**Philosophy of Race and Ethnicity** 3 Course Prerequisite:	**1-27**

			CES 201. Examination of race within western philosophy including work of philosophers of color and analysis of the category race. (Crosslisted course offered as CES 406, PHIL 406.) Typically offered Spring.	3 credits in PHIL or CES 201. Examination of race within western philosophy including work of philosophers of color and analysis of the category race. (Crosslisted course offered as CES 406, PHIL 406.) Typically offered Spring.	
CHEM	**538**	**Revise**	**Qualifier Prep for Physical Chemistry** V 1-2 ~~Course Prerequisite: Concurrent enrollment or credit with a grade of B or better in each of CHEM 509; CHEM 531; CHEM 532; CHEM 534; CHEM 564.~~ Review of critical concepts in thermodynamics, quantum mechanics, statistical thermodynamics, spectroscopy, and group theory for those preparing to take the Physical or Materials Chemistry PhD qualifying exam. Typically offered Spring. S, F grading.	**Qualifier Prep for Physical Chemistry** V 1-2 Course Prerequisite: Concurrent enrollment or credit with a B or better in CHEM 531 and CHEM 532, and concurrent enrollment or credit with a B or better in either CHEM 509, CHEM 534, or CHEM 564. Review of critical concepts in thermodynamics, quantum mechanics, statistical thermodynamics, spectroscopy, and group theory for those preparing to take the Physical or Materials Chemistry PhD qualifying exam. Typically offered Spring. S, F grading.	**8-26**
CPT S / E E	**302**	**Revise**	**Professional Skills in Computing and Engineering** 3 Course Prerequisite: CPT S 223 or 233 with a C or better, OR CPT S 121 or 131 and E E 261 with C or better; admitted to a major in EECS or Data Analytics; junior standing. ~~Professional development; ethical and professional responsibilities in computing and engineering.~~ (Crosslisted course offered as CPT S 302, E E 302.) Credit not granted for both CPT S/E E 302 and CPT S 401. Typically offered Fall and Spring.	**Professional Skills in Computing and Engineering** 3 Course Prerequisite: CPT S 223 or 233 with a C or better, OR CPT S 121 or 131 and E E 261 with C or better; admitted to a major in EECS or Data Analytics; junior standing. Professional development; ethical and professional responsibilities, including the use of standards and constraints, in computing and engineering. (Crosslisted course offered as CPT S 302, E E 302.) Credit not granted for both CPT S/E E 302 and CPT S 401. Typically offered Fall and Spring.	**8-26**
E E	**415**	**Revise**	**Design Project Management** 3 (1-6) Course Prerequisite: C or better in each of E E 234, 341, 352, and 361, OR C or better in each of E E 334, 352, and CPT S 360; C or better or concurrent	**Design Project Management** 3 (1-6) Course Prerequisite: C or better in each of E E 234, 341, 352, and 361, OR C or better in each of E E 334, 352, and CPT S 360; C or better or concurrent	**8-26**

			enrollment in E E 302; admitted to a major in EECS. ~~Project scheduling/planning, technical writing, oral presentation skills, working in teams, TQC, TQM, market-driven organizations.~~ Typically offered Fall and Spring.	enrollment in E E 302; admitted to a major in EECS. Project scheduling/planning, technical writing, oral presentation skills, working in teams, standards, market-driven organizations. Typically offered Fall and Spring.	
E E	**416**	**Revise**	**[CAPS] [M] Electrical Engineering Design** 3 (1-6) Course Prerequisite: E E 415 with a C or better; ENGLISH 402 or 403 with a C or better, or concurrent enrollment; admitted to a major or minor in EECS; senior standing. ~~Electrical engineering design of specific projects including design specification; written and oral presentations and reports.~~ Typically offered Fall and Spring.	**[CAPS] [M] Electrical Engineering Design** 3 (1-6) Course Prerequisite: E E 415 with a C or better; ENGLISH 402 or 403 with a C or better, or concurrent enrollment; admitted to a major or minor in EECS; senior standing. Electrical engineering design of specific projects including design specification, standards, and constraints; written and oral presentations and reports. Typically offered Fall and Spring.	**8-26**
ECONS	**431**	**Revise**	**~~Economic Analysis of Environmental and Natural Resource Policies~~** 3 Course Prerequisite: ECONS 301. Nature and practice of environmental policy analysis using economics concepts and the analysis of models applied to natural resource problems and issues.	**Computational Economics** 3 Course Prerequisite: ECONS 301. Nature and practice of environmental policy analysis using economics concepts and the analysis of models applied to natural resource problems and issues.	**1-26**
ENTRP	**492**	**Revise**	**[CAPS] ~~Small Business Strategy and Planning~~** 3 Course Prerequisite: FIN 325; I BUS 380; MGTOP 340; MKTG 360; completion of Carson Career Amplifier Tier II or Crimson Pathway I; admitted to a major or minor in the College of Business; senior standing. Application of management theory and principles to small firms; applied consulting experience with operating businesses. Typically offered Spring.	**[CAPS] Business Consulting** 3 Course Prerequisite: FIN 325; I BUS 380; MGTOP 340; MKTG 360; completion of Carson Career Amplifier Tier II or Crimson Pathway I; admitted to a major or minor in the College of Business; senior standing. Application of management theory and principles to small firms; applied consulting experience with operating businesses. Typically offered Spring.	**8-26**
HBM	**475**	**Revise**	**[CAPS] Senior Living Management Capstone** 3 ~~Course Prerequisite: HBM 470; HBM 494; senior standing.~~ Use	**[CAPS] Senior Living Management Capstone** 3 Course Prerequisite: HBM 470; HBM 494 or admitted to Aging	**8-26**

			of the case method in the operations and analysis of senior living organizations. Typically offered Fall and Spring.	Business Management Certificate. Use of the case method in the operations and analysis of senior living organizations. Typically offered Fall and Spring.	
MATH	**351**	**Revise**	**Algebraic Thinking for the Middle School Teacher** 3 ~~Course Prerequisite: MATH 252 with a C or better, or MATH 301 or concurrent enrollment.~~ Algebraic reasoning, classes of functions, translation among models, analytical rule, tables of data, context and coordinate graphs. Typically offered Spring.	**Algebraic Thinking for the Middle School Teacher** 3 Course Prerequisite: MATH 252 or MATH 171 with a C or better. Algebraic reasoning, classes of functions, translation among models, analytical rule, tables of data, context and coordinate graphs. Typically offered Spring.	**1-26**
MBIOS	**304**	**Revise**	**Microbiology and Molecular Biology Laboratory** 3 (1-6) ~~Course Prerequisite: MBIOS 303 or concurrent enrollment, or MBIOS 305 or concurrent enrollment.~~ Basic microbiology and molecular biology techniques. Typically offered Fall, Spring, and Summer.	**Microbiology and Molecular Biology Laboratory** 3 (1-6) Course Prerequisite: MBIOS 305 or concurrent enrollment. Basic microbiology and molecular biology techniques. Typically offered Fall, Spring, and Summer.	**1-26**
MBIOS	**410**	**Revise**	**Medical Microbiology** 3 ~~Course Prerequisite: MBIOS 305; MBIOS 404 or concurrent enrollment.~~ Microbial pathogens and their relationship to disease. Typically offered Spring.	**Medical Microbiology** 3 Course Prerequisite: MBIOS 301; MBIOS 305. Microbial pathogens and their relationship to disease. Typically offered Spring.	**1-26**
PHIL	**350**	**Revise**	~~**Philosophy of Science**~~ 3 Purpose and logical structure of science; human implications. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.	**Philosophy of Science: What is Science and How Does it Work?** 3 Purpose and logical structure of science; human implications. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.	**1-27**
PHIL	**407 / 507**	**Revise**	~~**Seminar in Philosophy of Religion**~~ 3 May be repeated for credit; cumulative maximum 6 credits. Advanced topic-driven seminar. Critical analysis of traditional and contemporary religions and religious phenomena. Credit not granted for both PHIL 407 and PHIL 507.	**Philosophy, Psychology, and Morality of Religion** 3 May be repeated for credit; cumulative maximum 6 credits. Advanced topic-driven seminar. Critical analysis of traditional and contemporary religions and religious phenomena. Credit not granted for both PHIL 407 and	**1-27**

			Offered at 400 and 500 level. Typically offered Spring. Cooperative: Open to UI degree-seeking students.	PHIL 507. Offered at 400 and 500 level. Typically offered Spring. Cooperative: Open to UI degree-seeking students.	
PHIL	**420**	**Revise**	**~~Existentialism and Continental Philosophy~~** 3 Selected movements, figures, and issues in recent continental philosophy. Recommended preparation: PHIL 320, 321 or 322. Typically offered Spring. Cooperative: Open to UI degree-seeking students.	**Existentialism: The Meaning and Challenge of Living** 3 Selected movements, figures, and issues in recent continental philosophy. Recommended preparation: PHIL 320, 321 or 322. Typically offered Spring. Cooperative: Open to UI degree-seeking students.	**1-27**
PHIL	**431**	**Revise**	**~~Aesthetics and Philosophy of Art~~** 3 Course Prerequisite: 3 ~~hours~~ PHIL; junior standing. Philosophical exploration of aesthetics experience and any or all of the arts; emphasis on value considerations and comparisons of differing media. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.	**The Good, the Bad, and the Ugly: Aesthetics and the Philosophy of Art** 3 Course Prerequisite: 3 credits PHIL; junior standing. Philosophical exploration of aesthetics experience and any or all of the arts; emphasis on value considerations and comparisons of differing media. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.	**1-27**
PHIL	**442**	**Revise**	**~~[CAPS] [M] Philosophy of Mind~~** 3 Course Prerequisite: 3 ~~hours~~ PHIL; junior standing. Theories of mind, self, mental acts, psychological states and artificial intelligence. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.	**[CAPS] [M] Minds, Brains, and Machines** 3 Course Prerequisite: 3 credits PHIL; junior standing. Theories of mind, self, mental acts, psychological states and artificial intelligence. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.	**1-27**
PHIL	**443 / 543**	**Revise**	**[M] ~~Philosophy of Language~~** 3 Course Prerequisite: 3 ~~hours~~ PHIL. Investigation of philosophical issues concerning meaning, reference, truth, the nature of language, and the relation between language and thought. Credit not granted for both PHIL 443 and PHIL 543. Offered at 400 and 500 level. Typically offered Fall. Cooperative: Open to UI degree-seeking students.	**[M] Use Your Words: Linguistic Meaning and Truth** 3 Course Prerequisite: 3 credits PHIL. Investigation of philosophical issues concerning meaning, reference, truth, the nature of language, and the relation between language and thought. Credit not granted for both PHIL 443 and PHIL 543. Offered at 400 and 500 level. Typically offered Fall.	**1-27**

				Cooperative: Open to UI degree-seeking students.	
PHIL	**445**	**Revise**	**[CAPS]** ~~**Philosophy of Technology**~~ 3 Course Prerequisite: Junior standing. An examination of the nature of technology and its role in personal life and society, focusing on the conceptualization of technology, the relation of science to technology, and the impact of technology on culture. Typically offered Spring.	**[CAPS]** **Science, Technology, and Society** 3 Course Prerequisite: Junior standing. An examination of the nature of technology and its role in personal life and society, focusing on the conceptualization of technology, the relation of science to technology, and the impact of technology on culture. Typically offered Spring.	**1-27**
PHIL	**446**	**Revise**	~~**Metaphysics**~~ 3 Course Prerequisite: 3 ~~hours~~ PHIL. Issues and theories concerning free will and determinism, the nature of truth, the existence of God, space, time and identity. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.	**The Nature of Reality: Existence, Identity, and Time** 3 Course Prerequisite: 3 credits PHIL. Issues and theories concerning free will and determinism, the nature of truth, the existence of God, space, time and identity. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.	**1-27**
PHIL	**447**	**Revise**	~~**Theory of Knowledge**~~ 3 Course Prerequisite: 3 ~~hours~~ PHIL. Problems and theories concerning skepticism, the nature and scope of knowledge, a priori knowledge, and induction. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.	**Knowledge and Rational Belief** 3 Course Prerequisite: 3 credits PHIL. Problems and theories concerning skepticism, the nature and scope of knowledge, a priori knowledge, and induction. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.	**1-27**
PREV SCI	**535**	**Revise**	~~**Effective Prevention Strategies I**~~ 3 Community mobilization and problem analysis; program selection, implementation, and management; grant writing. Typically offered Odd Years - Fall.	**Program Development in Prevention Science** 3 Community mobilization and problem analysis; program selection, implementation, and management; grant writing. Typically offered Odd Years - Fall.	**8-26**
PREV SCI	**538**	**Revise**	~~**Program Implementation**~~ 3 Dissemination and Implementation (D&I) Science and how it connects with Prevention Science; translation of research to practice in improvement of implementation,	**Dissemination and Implementation Science** 3 Dissemination and Implementation (D&I) Science and how it connects with Prevention Science; translation of research to practice in	**8-26**

			sustainment, and scale-up of prevention programs. Typically offered Fall.	improvement of implementation, sustainment, and scale-up of prevention programs. Typically offered Fall.	
PREV SCI	**540**	**Revise**	~~**Effective Prevention Strategies H**~~ 3 Evaluation of prevention science programs. Typically offered Even Years - Spring.	**Program Evaluation in Prevention Science** 3 Evaluation of prevention science programs. Typically offered Even Years - Spring.	**8-26**
PSYCH	**307**	**Revise**	~~**Human Factors** 3 Human limitations and capabilities in architectural and engineering design; system analysis.~~ Recommended preparation: PSYCH 105.	**Human Factors in Artificial Intelligence** 3 Human-centered AI in work systems; organizational and ethical impacts of AI design and deployment. Recommended preparation: PSYCH 105.	**1-27**
STAT / AFS	**511**	**Revise**	**Statistical Methods for Graduate Researchers** 4 (3-2) Fundamentals of experimental design and statistical methods for graduate students in the sciences. Covers t-test for one and two means, ANOVA through completely randomized designs with one and two factors, chi-square tests and regression analysis using R. Recommended preparation: One prior course in statistics. Cannot be used for credit in the Department of Mathematics and Statistics graduate programs. (Crosslisted course offered as STAT 511, AFS 511.) Typically offered Fall and Spring.	**Statistical Methods for Graduate Researchers** 4 (3-2) Fundamentals of experimental design and statistical methods for graduate students in the sciences. Covers t-test for one and two means, ANOVA through completely randomized designs with one and two factors, chi-square tests and regression analysis using R. Recommended preparation: One prior course in statistics. Cannot be used for credit in the Department of Mathematics and Statistics graduate programs. (Crosslisted course offered as STAT 511, AFS 511.) Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.	**1-26**