

MEMORANDUM

Faculty Senate approved September 21, 2023

TO: Deans and Chairs
 FROM: Becky Bitter, Sr. Assistant Registrar
 DATE: September 14, 2023
 SUBJECT: Minor Change Bulletin No. 1

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	Revise Drop	Current	Proposed	Effective Date
ANTH	539	Revise	Prehistory of the Southwest 3 Prehistory of the American Southwest; emphasis on Pueblo, Mogollon and Hohokam traditions and relationships to historic native groups. Typically offered Fall.	<u>Archaeology of the Southwest</u> 3 <u>Archaeology of the North American Southwest; Pueblo, Mogollon, and Hohokam traditions and relationships to contemporary native groups.</u> Typically offered Fall.	5-23
ANTH	540	Revise	Prehistory of the Northwest Coast 3 Prehistoric cultures, chronologies, and interrelationships on the northwest coast of North America. Typically offered Fall.	<u>Archaeology of the Pacific Northwest</u> 3 <u>Cultures, chronologies, and interrelationships on the northwest coast of North America.</u> Typically offered Fall.	5-23
ANTH	543	Revise	Prehistory of the Plateau and Basin 3 Archaeology of the interior Northwest and Great Basin.	<u>Archaeology of the Plateau and Basin</u> 3 Archaeology of the interior Northwest and Great Basin.	5-23
ART	333	Revise	Introduction to Digital Media – Video and Sound 3 (0-6) Course Prerequisite: ART 102 or concurrent enrollment, or ART 103 or concurrent enrollment, or FINE ART 110 or concurrent enrollment. Principles and processes of digital media through video and sound-based projects; theoretical investigations and conceptual development.	<u>Introduction to Digital Media - Video, Sound, and Animation</u> 3 (0-6) <u>Principles and processes of digital media through video, 2D animation and sound-based projects; theoretical investigations and conceptual development.</u> (Formerly FINE ART 333.) Typically offered Fall.	8-23

			(Formerly FINE ART 333.) Typically offered Fall.		
ASIA	301	Revise	[DIVER] East Meets West 1 May be repeated for credit; cumulative maximum 3 credits. Analytical themes to explore historical and contemporary interactions between U.S. and Asia in cultural, political, and economic dimensions. Taught as a multicultural symposium.	East Meets West 1 May be repeated for credit; cumulative maximum 3 credits. Analytical themes to explore historical and contemporary interactions between U.S. and Asia in cultural, political, and economic dimensions. Taught as a multicultural symposium.	8-23
BIOLOGY	354	Revise	Human Anatomy for Health Occupations 4 (3-3) Course Prerequisite: BIOLOGY 107; CHEM 102 or 345. History and anatomy of humans with non- cadaver-based laboratory utilizing preserved and histological specimens, models and software.	Human Anatomy for Health Occupations 4 (3-3) Course Prerequisite: BIOLOGY 107; CHEM 102 or 345. <u>History and anatomy of humans with non-cadaver-based laboratory utilizing preserved and histological specimens, models, and software.</u>	8-23
BIOLOGY	504	Revise	Experimental Methods in Plant Physiology 4 (2-6) Advanced techniques and instrumental methods applicable to research in plant physiology.	<u>Experimental Methods in Molecular Biology 3 Advanced techniques and methods applicable to research in molecular biology.</u>	1-24
CROP SCI	443	Drop	Plant Breeding for Organic Agriculture 3 Course Prerequisite: HORT 202; BIOLOGY 106 or 120. Concepts and practice of breeding in and for organic agriculture with an emphasis on field-based, on-farm techniques. Typically offered Odd Years - Fall.	--N/A--	8-23
DATA	319	Revise	Model-based and Data-based Methods for Data Analytics 3 Course Prerequisite: DATA 219; MATH 220 or MATH 225; STAT 360. Modeling methods for data analysis with high dimensional data, including theoretical and practical concerns. Typically offered Fall and Spring.	Model-based and Data-based Methods for Data Analytics 3 Course Prerequisite: DATA 219, CPT S 215, CPT S 223, or CPT S 233; MATH 220 or MATH/DATA 225; STAT 360. Modeling methods for data analysis with high dimensional data, including theoretical and practical concerns. Typically offered Fall and Spring.	8-23

DATA	424	Revise	[CAPS] [M] Data Analytics Capstone 3 Course Prerequisite: CPT S/CS 315; STAT 360; STAT 435 or 437, either with concurrent enrollment; CPT S 451/CS 351 or concurrent enrollment; admitted to the major in Data Analytics; junior standing. Team-based project that integrates the main aspects of data analytics.	[CAPS] [M] Data Analytics Capstone 3 Course Prerequisite: CPT S/CS 315 or DATA 319; STAT 360; STAT 435 or 437, either with concurrent enrollment; CPT S 451/CS 351 or concurrent enrollment; admitted to the major in Data Analytics; junior standing. Team-based project that integrates the main aspects of data analytics.	8-23
DATA	498	Revise	Internship V 1-3 May be repeated for credit; cumulative maximum 6 credits. Course Prerequisite: Admitted to the major in Data Analytics; junior standing; department permission. Experiential learning and career development through professional practice. Typically offered Fall, Spring, and Summer. S, F grading.	Internship V 1-6 May be repeated for credit; cumulative maximum 6 credits. Course Prerequisite: Admitted to the major in Data Analytics; junior standing; department permission. Experiential learning and career development through professional practice. Typically offered Fall, Spring, and Summer. S, F grading.	8-23
H D	498		Field Placement V 1 (0-3) to 9 (0-27) May be repeated for credit; cumulative maximum 9 credits. Course Prerequisite: H D 497 with a grade of C or higher; 2.60 GPA minimum in all other H D courses; department approved and documented internship; admitted to the major or a certificate in Human Development; by permission only. Self-initiated, supervised work experience with appropriate private organizations, businesses, or government agencies; interaction with professionals in related fields. Typically offered Fall, Spring, and Summer.	Internship in Human Development V 1 (0-3) to 9 (0-27) May be repeated for credit; cumulative maximum 9 credits. Course Prerequisite: H D 497 with a grade of C or higher; 2.60 GPA minimum in all other H D courses; department approved and documented internship; admitted to the major or a certificate in Human Development; by permission only. Self-initiated, supervised work experience with appropriate private organizations, businesses, or government agencies; interaction with professionals in related fields. Typically offered Fall, Spring, and Summer.	8-23
HISTORY / WGSS	298	Revise	HIST History of Women in American Society 3 Exploration of the many roles women have played in American society from the	History of Women in American Society 3 Exploration of the many roles women have played in American society from the	8-23

			Colonial period through the twentieth century. (Crosslisted course offered as HISTORY 298, WGSS 298.)	Colonial period through the twentieth century. (Crosslisted course offered as HISTORY 298, WGSS 298.)	
KINES	485	Revise	Kinesiology Internship V 10-12 Course Prerequisite: Admitted to the major in Kinesiology; completed with a C or better all course work for the Kinesiology major; completion of all UCORE requirements. Supervised practicum in fitness or health agency or business. KINES 485 cannot be taken concurrently with other coursework. Students must comply with all internship policies and procedures. Typically offered Fall, Spring, and Summer. S, F grading.	Kinesiology Internship V 1-12 Course Prerequisite: Admitted to the major in Kinesiology; completed with a C or better all course work for the Kinesiology major; completion of all UCORE requirements. Supervised practicum in fitness or health agency or business. KINES 485 cannot be taken concurrently with other coursework. Students must comply with all internship policies and procedures. Typically offered Fall, Spring, and Summer. S, F grading.	8-23
MATH	220	Revise	Introductory Linear Algebra 2 Course Prerequisite: MATH 171 or concurrent enrollment. Enrollment not allowed if credit already earned for MATH 225 or 230. Solving linear systems, matrices, determinants, subspaces, eigenvalues, orthogonality. Credit not granted for more than one of MATH 220, 225, and 230. Typically offered Fall, Spring, and Summer.	Introductory Linear Algebra 2 Course Prerequisite: <u>MATH 106 or 201 with a C or better, or MATH 140, 171, 202 or higher or concurrent enrollment, or a minimum ALEKS math placement score of 80%.</u> Solving linear systems, matrices, determinants, subspaces, eigenvalues, orthogonality. Credit not granted for more than one of MATH 220, 225, and 230. Typically offered Fall, Spring, and Summer.	8-23
MATH / DATA	225	Revise	Linear Algebra with Modern Applications 3 Course Prerequisite: MATH 106 or higher. Enrollment not allowed if credit already earned for MATH 220 or 230. Solving linear systems, matrices, determinants, subspaces, eigenvalues, orthogonality, machine learning, AI, computer graphics, and economic models. Credit not granted for more than one of MATH 220, 225, and	Linear Algebra with Modern Applications 3 Course Prerequisite: <u>MATH 106 or 201 with a C or better, or MATH 140, 171, 202 or higher or concurrent enrollment, or a minimum ALEKS math placement score of 80%.</u> Solving linear systems, matrices, determinants, subspaces, eigenvalues, orthogonality, machine learning, AI, computer graphics, and	8-23

			230. (Crosslisted course offered as MATH 225, DATA 225.) Typically offered Fall and Spring.	economic models. (Crosslisted course offered as MATH 225, DATA 225.) Credit not granted for more than one of MATH 225, 220, and 230. Typically offered Fall and Spring.	
MATH	230	Revise	Honors Introductory Linear Algebra 3 Course Prerequisite: MATH 171 or concurrent enrollment. Enrollment not allowed if credit already earned for MATH 220 or 225. An introduction to linear algebra with an emphasis on conceptual development. Credit not granted for more than one of MATH 220, 225, and 230. Typically offered Spring.	Honors Introductory Linear Algebra 3 <u>Course Prerequisite: MATH 106 or 201 with a C or better, or MATH 140, 171, 202 or higher or concurrent enrollment, or a minimum ALEKS math placement score of 80%.</u> An introduction to linear algebra with an emphasis on conceptual development. Credit not granted for more than one of MATH 230, 220, and 225. Typically offered Spring.	8-23
MATH	597	Revise	Mathematics Instruction Seminar 1 May be repeated for credit; cumulative maximum 5 credits. Introduction to the teaching of university mathematics. Typically offered Fall and Spring. S, F grading.	Mathematics Instruction Seminar 1 <u>May be repeated for credit; cumulative maximum 10 credits.</u> Introduction to the teaching of university mathematics. Typically offered Fall and Spring. S, F grading.	1-24
ME / <u>MECH</u>	800	Revise	Doctoral Research, Dissertation, and/or Examination V 1-18 May be repeated for credit. Course Prerequisite: Admitted to the Mechanical Engineering or Engineering Science PhD program. Independent research and advanced study for students working on their doctoral research, dissertation and/or final examination. Students must have graduate degree-seeking status and should check with their major advisor/committee chair before enrolling for 800 credit. Typically offered Fall, Spring, and Summer. S, U grading.	Doctoral Research, Dissertation, and/or Examination V 1-18 May be repeated for credit. Course Prerequisite: Admitted to the Mechanical Engineering or Engineering Science PhD program. Independent research and advanced study for students working on their doctoral research, dissertation and/or final examination. Students must have graduate degree-seeking status and should check with their major advisor/committee chair before enrolling for 800 credit. <u>(Crosslisted course offered as ME 800, MECH 800).</u> Typically offered Fall, Spring, and Summer. S, U grading.	8-23

MECH	101	Revise	Introduction to Mechanical Engineering 2 Course Prerequisite: MATH 106 and MATH 108, or concurrent enrollment, or MATH 171 or concurrent enrollment. Introduction to mechanical engineering profession, engineering problem solving, computers in engineering design methods. Typically offered Spring.	Introduction to Mechanical Engineering 2 Course <u>Prerequisite: MATH 171 or concurrent enrollment.</u> Introduction to mechanical engineering profession, engineering problem solving, computers in engineering design methods. Typically offered Spring.	8-23
MECH	309	Revise	[M] Introduction of Engineering Materials 3 (2-3) Course Prerequisite: MECH 215; CHEM 105 or concurrent enrollment; 4 credits of PHYSICS 201, or PHYSICS 201 and 211 or concurrent enrollment. Structure of materials, phase equilibrium, phase transformations, mechanical failure, and mechanical properties; materials testing laboratory. Typically offered Fall.	[M] <u>Engineering Materials 3 (2-3) Course</u> Prerequisite: MECH 215; CHEM 105 or concurrent enrollment; 4 credits of PHYSICS 201, or PHYSICS 201 and 211 or concurrent enrollment. Structure of materials, phase equilibrium, phase transformations, mechanical failure, and mechanical properties; materials testing laboratory. Typically offered Fall.	8-23
MECH	310	Revise	Introduction to Design and Manufacturing 4 (3-3) Course Prerequisite: MECH 103; MECH 309; admitted to the major in Mechanical Engineering. Basic mechanical engineering drawing; shaping and non-shaping manufacturing processes; exposure to 3D-CAD; manufacturing processes laboratory. Typically offered Spring.	<u>Manufacturing Processes 4 (3-3) Course</u> Prerequisite: MECH 103; MECH 309; admitted to the major in Mechanical Engineering. Basic mechanical engineering drawing; shaping and non-shaping manufacturing processes; exposure to 3D-CAD; manufacturing processes laboratory. Typically offered Spring.	8-23
MECH	405	Revise	Introduction to Microcontrollers 3 Course Prerequisite: MECH 304. Microcontroller architecture, microcontroller programming, mechanical system design with embedded microcontrollers. Typically offered Spring.	<u>Internet of Things with Microcontrollers 3 Course</u> Prerequisite: MECH 304. Microcontroller programming for Internet of Things (IoT) and network connectivity, IoT capable smart product design. Typically offered Spring.	8-23
MECH	439	Revise	Foundations of Aerodynamics 3 Course Prerequisite: MATH	<u>Aerodynamics 3 Course</u> Prerequisite: MATH 315;	8-23

			315; MECH 303. Governing equations of fluid mechanics, potential flow, introduction to aerodynamics, thin airfoil theory, compressible flow, viscous effects. Typically offered Fall.	MECH 303. Governing equations of fluid mechanics, potential flow, introduction to aerodynamics, thin airfoil theory, compressible flow, viscous effects. Typically offered Fall.	
MECH	441	Revise	Fundamentals of Renewable Energy 3 Course Prerequisite: 4 credits of PHYSICS 202, or PHYSICS 202 and 212; MATH 273. An examination of the fundamentals and the impact of renewable energy technology, including wind, solar, hydroelectricity, and alternate fuels. Typically offered Spring.	<u>Renewable Energy</u> 3 Course Prerequisite: 4 credits of PHYSICS 202, or PHYSICS 202 and 212; MATH 273; MECH 212 or ECE 260. An examination of the fundamentals and the impact of renewable energy technology, including wind, solar, hydroelectricity, and alternate fuels. Typically offered Spring.	8-23
MECH	450	Revise	Advanced Topics in Micro and Nano Technology 3 (2-3) Course Prerequisite: CHEM 106; 4 credits of PHYSICS 202, or PHYSICS 202 and 212. Microfabrication technology, bulk and surface micromachining, sensors and actuators, microelectromechanical systems (MEMS), nanofabrication technology, micro/nano scale material and device measurements. Credit not granted for both MECH 450 and MECH 550. Offered at 400 and 500 level. Typically offered Spring.	<u>Advanced Topics in Micro and Nano Technology</u> 3 (2-3) Course Prerequisite: CHEM 105; 4 credits of PHYSICS 202, or PHYSICS 202 and 212. Microfabrication technology, bulk and surface micromachining, sensors and actuators, microelectromechanical systems (MEMS), nanofabrication technology, micro/nano scale material and device measurements. Credit not granted for both MECH 450 and MECH 550. Offered at 400 and 500 level. Typically offered Spring.	8-23
MECH	521	Revise	Fundamentals of Fluids I 3 Mass and momentum conservation equations, Navier-Stokes equations, compressible flows, inviscid-potential flows, advanced viscous flows including boundary layer numerical methods.	<u>Advanced Fluid Mechanics</u> 3 Mass and momentum conservation equations, Navier-Stokes equations, compressible flows, inviscid-potential flows, advanced viscous flows including boundary layer numerical methods.	8-23
MECH	529	Revise	Experimental Methods for Mechanical Engineering Research 3 Research methods for mechanical engineers,	<u>Experimental Methods</u> 3 Research methods for mechanical engineers, including experimental design, techniques,	8-23

			including experimental design, techniques, analysis, and presentation. Typically offered Spring.	analysis, and presentation. Typically offered Spring.	
MPS / CHE / MBIOS	574	Revise	Protein Biotechnology 3 Biotechnology related to the isolation, modification and large scale commercial production, patenting and marketing of useful recombinant proteins and products. (Crosslisted course offered as MPS 574, CHE 574, MBIOS 574). Recommended preparation: MBIOS 513. Typically offered Even Years - Spring.	Protein Biotechnology 3 <u>Provides skills, experiences, and knowledge to promote protein biotechnology research, research career preparation, and intellectual property commercialization.</u> (Crosslisted course offered as MPS 574, CHE 574, MBIOS 574). Typically offered Even Years - Spring.	8-23
MUS	153	Revise	[ARTS] Musical Style in Composition 3 Introduction to musical style in composition, history, and analysis including theory fundamentals, history survey, and beginning composition. Typically offered Fall, Spring, and Summer.	[ARTS] Understanding Music 3 <u>Introduction to understanding music from aesthetic, cultural, and historical perspectives; music ranging from the earliest folk and art music traditions to modern popular music and beyond is listened to and discussed, all from a global perspective.</u> Typically offered Fall, Spring, and Summer.	8-23
NURS	308	Revise	[M] Professional Development II: Evidence Based Practice 3 Course Prerequisite: NURS 306; NURS 311; NURS 315; NURS 316; NURS 317. First of professional development series; focus on nursing and health care research, information management, informatics, and development of nursing research. Typically offered Fall and Spring.	[M] Professional Development II: Evidence Based Practice 3 <u>Course Prerequisite: NURS 306; NURS 311; NURS 315; NURS 316; NURS 317. Second in professional development series; focuses on developing clinical decision making that utilizes evidence through the integration of current scientific research.</u> Typically offered Fall and Spring.	1-24
NURS	311	Revise	Pathophysiology and Pharmacology in Nursing 4 Course Prerequisite: Admitted to the major in Nursing. Etiology, pathogenesis, clinical manifestations of common human dysfunction; nursing implications for prevention and therapeutic approaches	Pathophysiology and Pharmacology in Nursing 3 Course Prerequisite: Admitted to the major in Nursing. Etiology, pathogenesis, clinical manifestations of common human dysfunction; nursing implications for prevention and therapeutic approaches	8-23

			including pharmacologic and non-pharmacologic therapies. Typically offered Fall and Spring.	including pharmacologic and non-pharmacologic therapies. Typically offered Fall and Spring.	
NURS	316	Revise	Introduction to Nursing Practice in Health and Illness: Theory 2 Course Prerequisite: Admitted to the major in Nursing. Introduction to nursing concepts and holistic assessment including core professional values, knowledge and competencies for nursing practice. Typically offered Fall and Spring.	Introduction to Nursing Practice in Health and Illness: Theory 2 Course Prerequisite: <u>Admitted to the major in Nursing; concurrent enrollment in NURS 315 and NURS 317.</u> Introduction to nursing concepts and holistic assessment including core professional values, knowledge and competencies for nursing practice. Typically offered Fall and Spring.	8-23
NURS	317	Revise	Health Assessment 3 (2-2) Course Prerequisite: Admitted to the major in Nursing. Systematic approach to health assessment of adults emphasizing and incorporating use of nursing process and scientific rationale. Typically offered Fall and Spring.	Health Assessment 3 (2-2) Course Prerequisite: <u>Admitted to the major in Nursing; concurrent enrollment in NURS 315 and NURS 316.</u> Systematic approach to health assessment of adults emphasizing and incorporating use of nursing process and scientific rationale. Typically offered Fall and Spring.	1-24
NURS	322	Revise	The Human Experience of Diversity and Health 2 Course Prerequisite: Admitted to the major in Nursing. Explorations of regional, national, and global expressions of health and illness and implications for health care professionals. Typically offered Fall and Spring.	Health Equity in the Context of Care 2 Course Prerequisite: Admitted to the major in Nursing. <u>An exploration of diversity, equity, inclusion and belonging (DEIB) and how the social determinants of health impact the nursing practice and society's trajectory toward justice and health.</u> Typically offered Fall and Spring.	8-23
NURS	323	Revise	Nursing in the Genome Era 2 Genome science and application of genetic and genomic concepts to nursing care. Typically offered Fall and Spring.	--N/A--	8-23
NURS	324	Revise	Nursing Concepts in Acute and Chronic Illness in the Adult 4 Course Prerequisite: NURS 311; NURS 315; NURS	Nursing Concepts in Acute and Chronic Illness in the Adult 4 Course Prerequisite: <u>NURS 311; NURS 315; NURS</u>	8-23

			316; NURS 317 : Theoretical concepts of acute and chronic illness in the adult as a basis for critical thinking and decision-making in nursing. Typically offered Fall and Spring.	<u>316; NURS 317; and concurrent enrollment in NURS 325.</u> Theoretical concepts of acute and chronic illness in the adult as a basis for critical thinking and decision-making in nursing. Typically offered Fall and Spring.	
NURS	325	Revise	Nursing Practice in Acute and Chronic Illness in Adults 5 (0-15) Course Prerequisite: NURS 311; NURS 315; NURS 316; NURS 317; concurrent enrollment in NURS 324. Application of acute/chronic illness concepts in adults as a basis for critical thinking and decision-making in nursing. Typically offered Fall and Spring. S, F grading.	Nursing Practice in Acute and Chronic Illness in Adults 5 (0-15) <u>Course Prerequisite: NURS 311; NURS 315; NURS 316; NURS 317; and concurrent enrollment in NURS 324.</u> <u>Application of acute and chronic illness concepts and strategies in the care of adults to improve health and well-being.</u> Typically offered Fall and Spring. S, F grading.	8-23
NURS	328	Revise	Introduction to Gerontological Nursing 2 Course Prerequisite: Admitted to the major in Nursing. Professional values, communication, and functional assessment in care of elders; core knowledge and role development of the gerontological nurse. Typically offered Fall and Spring.	--N/A--	8-23
NURS	408	Revise	Professional Development III: Leadership and Management 3 Course Prerequisite: NURS 309. Continuation of professional development series; focus on impact of leadership, management, and resource allocation on patient outcomes. Typically offered Fall and Spring.	Professional Development III: Leadership and Management 3 <u>Course Prerequisite: NURS 308; NURS 322; NURS 324; NURS 325.</u> Continuation of professional development series; focus on impact of leadership, management, and resource allocation on patient outcomes. Typically offered Fall and Spring.	8-23
NURS	412	Revise	Family and Community as a Context of Care 1 (0-2) Concepts of family-focused nursing assessment, planning, and interventions with emphasis on referral to appropriate	Family and Community as a Context of Care 1 (0-2) <u>Course Prerequisite: NURS 308; NURS 322; NURS 324; NURS 325.</u> Concepts of family-focused nursing assessment, planning, and interventions with emphasis	8-23

			community resources. Typically offered Fall and Spring.	on referral to appropriate community resources. Typically offered Fall and Spring.	
NURS	414	Revise	Child and Family Health: Theory 3 Course Prerequisite: NURS 324; NURS 325; concurrent enrollment in NURS 328. Analysis and evaluation of scientific and theory base for nursing care of children and families. Typically offered Fall and Spring.	Child and Family Health: Theory 3 <u>Course Prerequisite: NURS 308; NURS 322; NURS 324; NURS 325; and concurrent enrollment in NURS 415.</u> Analysis and evaluation of scientific and theory base for nursing care of children and families. Typically offered Fall and Spring.	8-23
NURS	415	Revise	Children and Families as the Focus of Nursing Care 2 (0-6) Course Prerequisite: NURS 324; NURS 325. Synthesis and application of underlying science and nursing process with the unique population of children and families. Typically offered Fall and Spring. S, F grading.	Children and Families as the Focus of Nursing Care 2 (0-6) <u>Course Prerequisite: NURS 308; NURS 322; NURS 324; NURS 325; and concurrent enrollment in NURS 414.</u> Synthesis and application of underlying science and nursing process with the unique population of children and families. Typically offered Fall and Spring. S, F grading.	8-23
NURS	416	Revise	Childbearing Health of the Family 3 Course Prerequisite: NURS 324; NURS 325; concurrent enrollment in NURS 328. Care of childbearing families within the context of community; newborn health, and men's and women's reproductive health addressed. Typically offered Fall and Spring.	Childbearing Health of the Family 3 <u>Course Prerequisite: NURS 308; NURS 322; NURS 324; NURS 325; concurrent enrollment in NURS 417.</u> Care of childbearing families within the context of community; newborn health, and men's and women's reproductive health addressed. Typically offered Fall and Spring.	8-23
NURS	417	Revise	Nursing Care of Childbearing Families 2 (0-6) Course Prerequisite: NURS 324; NURS 325. Nursing care of families during the childbearing continuum and/or acute care settings; combination of clinical and seminar. Typically offered Fall and Spring. S, F grading.	Nursing Care of Childbearing Families 2 (0-6) <u>Course Prerequisite: NURS 308; NURS 322; NURS 324; NURS 325; and concurrent enrollment in NURS 416.</u> Nursing care of families during the childbearing continuum and/or acute care settings; combination of clinical and seminar. Typically offered Fall and Spring. S, F grading.	1-24

NURS	424	Revise	<p>Psychiatric/Mental Health Nursing Concepts 3 Course Prerequisite: NURS 414; NURS 415; NURS 416; NURS 417. Healthy to psychopathological states studied within a nursing framework; includes history, theories, legal/ethical issues of psychiatric/mental health nursing. Typically offered Fall and Spring.</p>	<p>Psychiatric/Mental Health Nursing Concepts 3 Course <u>Prerequisite: NURS 408; NURS 412; NURS 414; NURS 415; NURS 416; NURS 417; and concurrent enrollment in NURS 425.</u> Principles and concepts of mental health studied within a nursing framework; includes psychopathology, treatment modalities, nursing care across the lifespan, and professional values within a legal/ethical framework. Typically offered Fall and Spring.</p>	8-23
NURS	425	Revise	<p>Nursing Practice: Psychiatric/Mental Health 2 (0-6) Course Prerequisite: NURS 414; NURS 415; NURS 416; NURS 417; concurrent enrollment in NURS 424. Clinical application of the nursing process with clients experiencing acute and chronic psychiatric/mental health disruptions. Typically offered Fall and Spring. S, F grading.</p>	<p>Nursing Practice: Psychiatric/Mental Health 2 (0-6) Course <u>Prerequisite: NURS 408; NURS 412; NURS 414; NURS 415; NURS 416; NURS 417; concurrent enrollment in NURS 424.</u> Clinical application of the nursing process with clients experiencing acute and chronic psychiatric/mental health disruptions. Typically offered Fall and Spring. S, F grading.</p>	8-23
NURS	426	Revise	<p>[M] Community Health Nursing Theory 2 Course Prerequisite: NURS 414; NURS 415; NURS 416; NURS 417. Synthesis of nursing and public health concepts with emphasis on community as partner and population-focused practice. Typically offered Fall and Spring.</p>	<p>[M] Community Health Nursing Theory 2 Course <u>Prerequisite: NURS 408; NURS 412; NURS 414; NURS 415; NURS 416; NURS 417; concurrent enrollment in NURS 427.</u> Synthesis of nursing and public health concepts with emphasis on community as partner and population-focused practice. Typically offered Fall and Spring.</p>	8-23
PHARMACY	555	Revise	<p>Drug Information and Literature Evaluation 4 Evaluation of drug information in pharmaceutical and biomedical literature to provide better patient care. Typically offered Spring. H, S, F grading.</p>	<p>Drug Information and Literature Evaluation 4 Evaluation of drug information in pharmaceutical and biomedical literature to provide better patient care. Typically offered Fall. H, S, F grading.</p>	8-23

PHARMACY	566	Revise	Therapeutics of Special Populations 3 Special therapeutic needs of unique populations including pediatrics, chronic neurologic disorders, hospice care and immuno-compromised patients. Typically offered Fall. H, S, F grading.	Therapeutics of Special Populations 3 Special therapeutic needs of unique populations including pediatrics, chronic neurologic disorders, hospice care and immuno-compromised patients. Typically offered Spring. H, S, F grading.	8-23
SHS	372	Revise	Hearing and Hearing Disorders 3 Acoustic and psychophysiologic aspects of normal hearing and speech perception, and the nature and consequences of hearing disorders.	Hearing, Hearing Disorders, and Audiometry 3 Acoustic and psychophysiologic aspects of normal hearing; introduction to assessment and differential diagnosis of hearing impairment and auditory pathologies.	8-23
SOC	356	Revise	Sociology of Aging and the Life Course 3 Aging as a lifelong process; behavior, personality competencies, social relations changes over the life course; historical, social structural, demographics, contextual influences. Typically offered Fall. Cooperative: Open to UI degree-seeking students.	Growing Up and Growing Older 3 Aging as a lifelong process; behavior, personality competencies, social relations changes over the life course; historical, social structural, demographics, contextual influences. Typically offered Fall. Cooperative: Open to UI degree-seeking students.	8-23
SOE	487	Revise	Human Dimensions of Wildfire 3 An introduction to qualitative research methods and natural resource sociology; examples center around wildfire but are applicable to multiple natural resource management fields. Typically offered Fall.	Human Dimensions of Natural Resources 3 An introduction to qualitative research methods and natural resource sociology; examples center around wildfire but are applicable to multiple natural resource management fields. Typically offered Fall.	8-23
<u>STAT / DATA</u>	435	Revise	[M] Statistical Modeling for Data Analytics 3 (2-2) Course Prerequisite: STAT 360. Multiple linear regression with model selection, dealing with multicollinearity, assessing model assumptions, the LASSO, ridge regression, elastic nets, Loess smoothing, logistic regression, Poisson regression, and the application of the bootstrap to regression modeling. Typically offered Fall.	[M] Statistical Modeling for Data Analytics 3 (2-2) Course Prerequisite: STAT 360. Multiple linear regression with model selection, dealing with multicollinearity, assessing model assumptions, the LASSO, ridge regression, elastic nets, Loess smoothing, logistic regression, Poisson regression, and the application of the bootstrap to regression modeling. (Crosslisted course	5-23

				offered as STAT 435, <u>DATA 435</u>). Typically offered Fall.	
STAT / <u>DATA</u>	437	Revise	High Dimensional Data Learning and Visualization 3 Course Prerequisite: STAT 435. Data visualization, metric-based clustering, probabilistic and metric-based classification, algebraic and probabilistic dimension reduction, scalable inferential methods, analysis of non-Euclidean data. Typically offered Spring.	High Dimensional Data Learning and Visualization 3 Course Prerequisite: STAT 435. Data visualization, metric-based clustering, probabilistic and metric-based classification, algebraic and probabilistic dimension reduction, scalable inferential methods, analysis of non-Euclidean data. (<u>Crosslisted course offered as STAT 437, DATA 437</u>). Typically offered Spring.	5-23
VET MED	502	Revise	Communication Skills V1-3 Course Prerequisite: Veterinary Medicine student. Exercises designed to enhance communication and relational skills. Typically offered Fall and Spring. S, M, F grading.	Communication Skills <u>1</u> Course Prerequisite: Veterinary Medicine student. Exercises designed to enhance communication and relational skills. Typically offered Fall and Spring. S, M, F grading.	1-24
VET MED	559	Revise	Special Animal Medicine V1-3 Course Prerequisite: Veterinary Medicine student. Handling, restraint, care, normative features, procedures and diseases of unusual animals as pets or those used in food production or research. Typically offered Spring. S, M, F grading.	Special Animal Medicine <u>1</u> Course Prerequisite: Veterinary Medicine student. Handling, restraint, care, normative features, procedures and diseases of unusual animals as pets or those used in food production or research. Typically offered Spring. S, M, F grading.	8-23
VET MED	561	Revise	Clinical Specialties V1-4 Course Prerequisite: Veterinary Medicine student. This course includes clinical disciplines that are not considered core internal medicine, such as ophthalmology and dermatology. Typically offered Spring. S, M, F grading.	Clinical Specialties <u>2</u> Course Prerequisite: Veterinary Medicine student. This course includes clinical disciplines that are not considered core internal medicine, such as ophthalmology and dermatology. Typically offered Spring. S, M, F grading.	1-24
VET MED	590	Revise	Veterinary Clinical Nutrition V1-3 May be repeated for credit; cumulative maximum 3 credits. Large and small animal clinical nutrition; nutrient composition; nutritional diseases and practical feeding	Veterinary Clinical Nutrition <u>1</u> May be repeated for credit; cumulative maximum 3 credits. Large and small animal clinical nutrition; nutrient composition; nutritional diseases and practical	1-24

			methods. Typically offered Spring. S, M, F grading.	feeding methods. Typically offered Spring. S, M, F grading.	
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