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.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Number</th>
<th>Revise Drop</th>
<th>Current</th>
<th>Proposed</th>
<th>Effective Date</th>
</tr>
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<tbody>
<tr>
<td>ANTH 539</td>
<td>Revise</td>
<td>Prehistory of the Southwest 3</td>
<td>Prehistory of the American Southwest; emphasis on Pueblo, Mogollon and Hohokam traditions and relationships to historic native groups. Typically offered Fall.</td>
<td>Archaeology of the Southwest 3</td>
<td>Archaeology of the North American Southwest; Pueblo, Mogollon, and Hohokam traditions and relationships to contemporary native groups. Typically offered Fall.</td>
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<tr>
<td>ANTH 540</td>
<td>Revise</td>
<td>Prehistory of the Northwest Coast 3</td>
<td>Prehistoric cultures, chronologies, and interrelationships on the northwest coast of North America. Typically offered Fall.</td>
<td>Archaeology of the Pacific Northwest 3</td>
<td>Cultures, chronologies, and interrelationships on the northwest coast of North America. Typically offered Fall.</td>
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<td>ANTH 543</td>
<td>Revise</td>
<td>Prehistory of the Plateau and Basin 3</td>
<td>Archaeology of the interior Northwest and Great Basin.</td>
<td>Archaeology of the Plateau and Basin 3</td>
<td>Archaeology of the interior Northwest and Great Basin.</td>
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<tr>
<td>ART 333</td>
<td>Revise</td>
<td>Introduction to Digital Media - Video and Sound 3 (0-6)</td>
<td>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.</td>
<td>Introduction to Digital Media - Video, Sound, and Animation 3 (0-6)</td>
<td>Principles and processes of digital media through video, 2D animation and sound-based projects; theoretical investigations and conceptual development. (Formerly FINE ART 333.)</td>
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<td>Course</td>
<td>Code</td>
<td>Type</td>
<td>Title</td>
<td>Prerequisite</td>
<td>Credits</td>
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<td>ASIA</td>
<td>301</td>
<td>Revise</td>
<td>East Meets West 1</td>
<td>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.</td>
<td>1</td>
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<tr>
<td>BIOLOGY</td>
<td>354</td>
<td>Revise</td>
<td>Human Anatomy for Health Occupations 4 (3-3)</td>
<td>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.</td>
<td>4</td>
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<tr>
<td>BIOLOGY</td>
<td>504</td>
<td>Revise</td>
<td>Experimental Methods in Plant Physiology 4 (2-6)</td>
<td>Advanced techniques and instrumental methods applicable to research in plant physiology.</td>
<td>4</td>
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<tr>
<td>CROP SCI</td>
<td>443</td>
<td>Drop</td>
<td>Plant Breeding for Organic Agriculture 3 Course</td>
<td>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.</td>
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<tr>
<td>DATA</td>
<td>319</td>
<td>Revise</td>
<td>Model-based and Data-based Methods for Data Analytics 3 Course</td>
<td>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.</td>
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<td>Model-based and Data-based Methods for Data Analytics 3 Course</td>
<td>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.</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td>Prerequisites</td>
<td>Offerings</td>
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<td>DATA 424</td>
<td>[CAPS] [M] Data Analytics Capstone 3 Course</td>
<td>3</td>
<td>Course integrates the main aspects of data analytics.</td>
<td>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.</td>
<td>8-23</td>
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<td>DATA 498</td>
<td>Internship V 1-3</td>
<td>3</td>
<td>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.</td>
<td>S, F grading.</td>
<td>8-23</td>
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<tr>
<td>HD 498</td>
<td>Field Placement V 1 (0-3) to 9 (0-27)</td>
<td>9</td>
<td>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.</td>
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<tr>
<td>HISTORY / WGSS 298</td>
<td>History of Women in American Society V 3</td>
<td>3</td>
<td>Exploration of the many roles women have played in American society from the</td>
<td>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.</td>
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<td>Course</td>
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<td>Prerequisites</td>
<td>Course Content</td>
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| Colonial period through the twentieth century. (Crosslisted course offered as HISTORY 298, WGSS 298.) | 0-12 | Kinesiology Internship | 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 | 8-23

| KINES | 485 | Revise Kinesiology Internship V | 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. | Introductory Linear Algebra | 8-23

| MATH | 220 | Revise Introductory Linear Algebra | 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 | 8-23

| MATH / DATA | 225 | Revise Linear Algebra with Modern Applications | 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 | 8-23
<table>
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<th>Description</th>
<th>Credits</th>
<th>Notes</th>
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<tr>
<td>MATH 230</td>
<td>Honors Introductory Linear Algebra 3</td>
<td>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.</td>
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<tr>
<td>MATH 597</td>
<td>Mathematics Instruction Seminar 1</td>
<td>May be repeated for credit; cumulative maximum 5 credits. Introduction to the teaching of university mathematics. Typically offered Fall and Spring. S, F grading.</td>
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<td>1-24</td>
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<tr>
<td>ME / MECH 800</td>
<td>Doctoral Research, Dissertation, and/or Examination V 1-18</td>
<td>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.</td>
<td>8-23</td>
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<tr>
<td>MECH 101</td>
<td>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.</td>
<td>Introduction to Mechanical Engineering 2 Course Prerequisite: MATH 171 or concurrent enrollment. Introduction to mechanical engineering profession, engineering problem solving, computers in engineering design methods. Typically offered Spring.</td>
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<td>MECH 309</td>
<td>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.</td>
<td>[M] 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.</td>
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<td>MECH 310</td>
<td>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.</td>
<td>Manufacturing Processes 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.</td>
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<td>MECH 405</td>
<td>Revise Introduction to Microcontrollers 3 Course Prerequisite: MECH 304. Microcontroller architecture, microcontroller programming, mechanical system design with embedded microcontrollers. Typically offered Spring.</td>
<td>Internet of Things with Microcontrollers 3 Course Prerequisite: MECH 304. Microcontroller programming for Internet of Things (IoT) and network connectivity, IoT capable smart product design. Typically offered Spring.</td>
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<td>MECH 439</td>
<td>Revise Foundations of Aerodynamics 3 Course Prerequisite: MATH 315; Aerodynamics 3 Course Prerequisite: MATH 315; 8-23</td>
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<td>MECH 303</td>
<td>Governing equations of fluid mechanics, potential flow, introduction to aerodynamics, thin airfoil theory, compressible flow, viscous effects. Typically offered Fall.</td>
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<td>MECH 441</td>
<td><strong>Fundamentals of Renewable Energy</strong> 3 (3-3)</td>
<td>3</td>
<td>Course Prerequisite: 4 credits of PHYSICS 202, or PHYSICS 202 and 212; MATH 273.</td>
<td>An examination of the fundamentals and the impact of renewable energy technology, including wind, solar, hydroelectricity, and alternate fuels. Typically offered Spring.</td>
<td>Spring</td>
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<tr>
<td>MECH 450</td>
<td><strong>Advanced Topics in Micro and Nano Technology</strong> 3 (2-3)</td>
<td>3</td>
<td>Course Prerequisite: CHEM 106; 4 credits of PHYSICS 202, or PHYSICS 202 and 212.</td>
<td>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.</td>
<td>Spring</td>
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<tr>
<td>MECH 521</td>
<td><strong>Fundamentals of Fluids I</strong> 3</td>
<td>3</td>
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<td>Mass and momentum conservation equations, Navier-Stokes equations, compressible flows, inviscid-potential flows, advanced viscous flows including boundary layer numerical methods.</td>
<td>Spring</td>
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<td>MECH 529</td>
<td><strong>Experimental Methods for Mechanical Engineering Research</strong> 3</td>
<td>3</td>
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<td>Research methods for mechanical engineers, including experimental design, techniques,</td>
<td>Spring</td>
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<td>Course Code</td>
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<td>Prerequisites/Notes</td>
<td>Offering</td>
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<td>MPS / CHE / MBIOS 574</td>
<td>3</td>
<td>Protein Biotechnology 3</td>
<td>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.</td>
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<tr>
<td>MUS 153</td>
<td>3</td>
<td>[ARTS] Musical Style in Composition 3</td>
<td>Introduction to musical style in composition, history, and analysis including theory fundamentals, history survey, and beginning composition. Typically offered Fall, Spring, and Summer.</td>
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<td>NURS 308</td>
<td>3</td>
<td>[M] Professional Development II: Evidence Based Practice 3</td>
<td>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.</td>
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<td>NURS 311</td>
<td>4</td>
<td>Pathophysiology and Pharmacology in Nursing 4</td>
<td>Course Prerequisite: Admitted to the major in Nursing. Etiology, pathogenesis, clinical manifestations of common human dysfunction; nursing implications for prevention and therapeutic approaches</td>
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<tr>
<td>NURS 315</td>
<td>3</td>
<td>[M] Professional Development II: Evidence Based Practice 3</td>
<td>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. Typically offered Fall and Spring.</td>
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<tr>
<td>NURS 317</td>
<td>3</td>
<td>Pathophysiology and Pharmacology in Nursing 3</td>
<td>Course Prerequisite: Admitted to the major in Nursing. Etiology, pathogenesis, clinical manifestations of common human dysfunction; nursing implications for prevention and therapeutic approaches</td>
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Typically offered Spring.
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<th>Course Code</th>
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<th>Course Prerequisite</th>
<th>Description</th>
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<tbody>
<tr>
<td>NURS 316</td>
<td>Introduction to Nursing Practice in Health and Illness: Theory</td>
<td>2 Course Prerequisite: Admitted to the major in Nursing</td>
<td>Introduction to nursing concepts and holistic assessment including core professional values, knowledge and competencies for nursing practice. Typically offered Fall and Spring.</td>
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<tr>
<td>NURS 317</td>
<td>Health Assessment 3 (2-2)</td>
<td>Course Prerequisite: Admitted to the major in Nursing</td>
<td>Systematic approach to health assessment of adults emphasizing and incorporating use of nursing process and scientific rationale. Typically offered Fall and Spring.</td>
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<tr>
<td>NURS 322</td>
<td>The Human Experience of Diversity and Health</td>
<td>2 Course Prerequisite: Admitted to the major in Nursing</td>
<td>Explorations of regional, national, and global expressions of health and illness and implications for health care professionals. Typically offered Fall and Spring.</td>
</tr>
<tr>
<td>NURS 323</td>
<td>Nursing in the Genome Era</td>
<td>2 Genome science and application of genetic and genomic concepts to nursing care. Typically offered Fall and Spring.</td>
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<tr>
<td>NURS 324</td>
<td>Nursing Concepts in Acute and Chronic Illness in the Adult</td>
<td>4 Course Prerequisite: NURS 311; NURS 315; NURS 316</td>
<td>Nursing Concepts in Acute and Chronic Illness in the Adult</td>
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<tr>
<td>Course Code</td>
<td>Credit Hours</td>
<td>Course Name</td>
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<tr>
<td>NURS 316; NURS 317</td>
<td>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.</td>
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<tr>
<td>NURS 316; NURS 317; and concurrent enrollment in NURS 325</td>
<td>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.</td>
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<tr>
<td>NURS 325</td>
<td>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.</td>
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<tr>
<td>NURS 325</td>
<td>Revise Nursing Practice in Acute and Chronic Illness in Adults 5 (0-15) Course Prerequisite: NURS 311; NURS 315; NURS 316; NURS 317; and concurrent enrollment in NURS 324. Application of acute and chronic illness concepts and strategies in the care of adults to improve health and well-being. Typically offered Fall and Spring. S, F grading.</td>
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<tr>
<td>NURS 328</td>
<td>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.</td>
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<td>NURS 328</td>
<td>--N/A--</td>
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<td>NURS 408</td>
<td>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.</td>
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<tr>
<td>NURS 408</td>
<td>Professional Development III: Leadership and Management 3 Course Prerequisite: NURS 308; NURS 322; NURS 324; NURS 325. Continuation of professional development series; focus on impact of leadership, management, and resource allocation on patient outcomes. Typically offered Fall and Spring.</td>
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<tr>
<td>NURS 412</td>
<td>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</td>
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<tr>
<td>NURS 412</td>
<td>Family and Community as a Context of Care 1 (0-2) Course Prerequisite: NURS 308; NURS 322; NURS 324; NURS 325. Concepts of family-focused nursing assessment, planning, and interventions with emphasis</td>
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<td>NURS 414</td>
<td>Revise Child and Family Health: Theory</td>
<td>Analysis and evaluation of scientific and theory base for nursing care of children and families. Typically offered Fall and Spring.</td>
<td>NURS 324; NURS 325; concurrent enrollment in NURS 328.</td>
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<tr>
<td>NURS 415</td>
<td>Revise Children and Families as the Focus of Nursing Care 2</td>
<td>Synthesis and application of underlying science and nursing process with the unique population of children and families. Typically offered Fall and Spring.</td>
<td>NURS 324; NURS 325; and concurrent enrollment in NURS 414.</td>
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<tr>
<td>NURS 416</td>
<td>Revise Childbearing Health of the Family 3</td>
<td>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.</td>
<td>NURS 324; NURS 325; concurrent enrollment in NURS 328.</td>
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<tr>
<td>NURS 417</td>
<td>Revise Nursing Care of Childbearing Families 2</td>
<td>Nursing care of families during the childbearing continuum and/or acute care settings; combination of clinical and seminar. Typically offered Fall and Spring.</td>
<td>NURS 308; NURS 322; NURS 324; NURS 325; concurrent enrollment in NURS 416.</td>
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<td>Course Code</td>
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<td>Prerequisite</td>
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<td>NURS 424</td>
<td>Psychiatric/Mental Health Nursing Concepts 3 Course</td>
<td>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.</td>
<td>NURS 414; NURS 415; NURS 416; NURS 417.</td>
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<tr>
<td>NURS 425</td>
<td>Nursing Practice: Psychiatric/Mental Health 2 (0-6) Course</td>
<td>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.</td>
<td>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.</td>
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<tr>
<td>NURS 426</td>
<td>[M] Community Health Nursing Theory 2 Course</td>
<td>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.</td>
<td>NURS 414; NURS 415; NURS 416; NURS 417; concurrent enrollment in NURS 427. Synthesis of nursing and public health concepts with emphasis on community as partner and population-focused practice. Typically offered Fall and Spring.</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Description</td>
<td>Grading</td>
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<tr>
<td>PHARMACY 566</td>
<td>Revise Therapeutics of Special Populations 3</td>
<td>Special therapeutic needs of unique populations including pediatrics, chronic neurologic disorders, hospice care and immunocompromised patients. Typically offered Fall. H, S, F grading.</td>
<td>8-23</td>
</tr>
<tr>
<td>SHS 372</td>
<td>Revise Hearing and Hearing Disorders 3</td>
<td>Acoustic and psychophysiologic aspects of normal hearing and speech perception, and the nature and consequences of hearing disorders.</td>
<td>8-23</td>
</tr>
<tr>
<td>SOC 356</td>
<td>Revise Sociology of Aging and the Life Course 3</td>
<td>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.</td>
<td>8-23</td>
</tr>
<tr>
<td>SOE 487</td>
<td>Revise Human Dimensions of Wildfire 3</td>
<td>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.</td>
<td>8-23</td>
</tr>
<tr>
<td>STAT / DATA 435</td>
<td>Revise [M] Statistical Modeling for Data Analytics 3 (2-2)</td>
<td>Course Prerequisite: STAT 360. Multiple linear regression with model selection, dealing with multicolinearity, 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.</td>
<td>5-23</td>
</tr>
</tbody>
</table>


Typically offered Fall. Cooperative: Open to UI degree-seeking students.

Typically offered Fall. Cooperative: Open to UI degree-seeking students.

Typically offered Fall.

Typically offered Fall. (Crosslisted course
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Course Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 435, DATA 435</td>
<td>3</td>
<td>High Dimensional Data Learning and Visualization</td>
<td>Course Prerequisite: STAT 435.</td>
<td>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.</td>
</tr>
<tr>
<td>VET MED 502</td>
<td>3</td>
<td>Communication Skills</td>
<td>Course Prerequisite: Veterinary Medicine student.</td>
<td>Exercises designed to enhance communication and relational skills. Typically offered Fall and Spring. S, M, F grading.</td>
</tr>
<tr>
<td>VET MED 559</td>
<td>3</td>
<td>Special Animal Medicine</td>
<td>Course Prerequisite: Veterinary Medicine student.</td>
<td>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.</td>
</tr>
<tr>
<td>VET MED 561</td>
<td>4</td>
<td>Clinical Specialties</td>
<td>Course Prerequisite: Veterinary Medicine student.</td>
<td>This course includes clinical disciplines that are not considered core internal medicine, such as ophthalmology and dermatology. Typically offered Spring. S, M, F grading.</td>
</tr>
<tr>
<td>VET MED 590</td>
<td>3</td>
<td>Veterinary Clinical Nutrition</td>
<td>May be repeated for credit; cumulative maximum 3 credits. Large and small animal clinical nutrition; nutrient composition; nutritional diseases and practical feeding</td>
<td>Veterinary Clinical Nutrition</td>
</tr>
</tbody>
</table>