

**MEMORANDUM**

TO: Deans and Chairs  
 FROM: Becky Bitter, Assistant Registrar  
 DATE: October 14, 2011  
 SUBJECT: Minor Change Bulletin No. 4

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.

| Prefix | Course Number | New<br>Revise<br>Drop | Current   | Proposed  | Effective Date |
|--------|---------------|-----------------------|---|---|----------------|
| AFS    | 445           | Revise                | <b>Field Analysis of Sustainable Food Systems 3</b> Experiential course visiting farms, food processing and marketing facilities to develop understanding of issues and relationships of sustainable food systems. Credit not granted for both AFS 445 and 545.<br><del>Cooperative course taught jointly by WSU and UI (AG 445).</del> | <b>Field Analysis of Sustainable Food Systems 3</b> Experiential course visiting farms, food processing and marketing facilities to develop understanding of issues and relationships of sustainable food systems. Credit not granted for both AFS 445 and 545. | 1-12           |
| AFS    | 545           | Revise                | <b>Field Analysis of Sustainable Food Systems 3</b> Graduate-level counterpart of AFS 445; additional requirements. Credit not granted for both AFS 445 and 545.<br><del>Cooperative course taught jointly by WSU and UI (AG 545).</del>  | <b>Field Analysis of Sustainable Food Systems 3</b> Graduate-level counterpart of AFS 445; additional requirements. Credit not granted for both AFS 445 and 545.  | 1-12           |
| Am St  | 524           | Revise                | <del><b>Culture Studies in Popular Culture 3</b></del> Interdisciplinary approaches to historical and contemporary trends and issues in US popular culture.   | <b>Critical Studies in Popular Culture 3</b> Interdisciplinary approaches to historical and contemporary trends and issues in US popular culture.   | 1-12           |
| CHE    | 541           | Revise                | <b>Chemical Engineering Analysis 3</b> Mathematical analysis of chemical engineering operations and processes; mathematical modeling and computer application.  | <b>Chemical Engineering Analysis 3</b> Mathematical analysis of chemical engineering operations and processes; mathematical modeling and computer application.<br><u>Cooperative course taught by</u>   | 8-12           |

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|     |     |        |  | WSU, open to UI students ( <u>ChE 541</u> ).  |      |
| CRS | 416 | Revise | <b>Sustainable Small Farming and Ranching Overview 3</b><br><del>Introduction to small acreage production systems, evaluation of personal and family goals, land evaluation, business planning, marketing options, regulations, and community resources. Cooperative course taught by UI (Ag 404), open to WSU students.</del> | <b>Sustainable Small Acreage Farming and Ranching 3</b><br><u>Overview of small acreage production systems, evaluation of goals and resources, land evaluation, marketing options, and accessing community resources.</u><br>Cooperative course taught by UI ( <u>Soil 416</u> ), open to WSU students. | 8-12 |
| CRS | 445 | Drop   | <b>Field Analysis of Sustainable Food Systems 3</b> Same as AFS 445. Credit not granted for both CRS 445 and 545.  | --N/A--   | 1-12 |
| CRS | 545 | Drop   | <b>Field Analysis of Sustainable Food Systems 3</b> Same as AFS 545. Graduate-level counterpart of CRS 445; additional requirements. Credit not granted for both CRS 445 and 545.  | --N/A--   | 1-12 |
| CS  | 121 | Revise | <b>Program Design and Development 4 (3-3)</b> <del>Prereq Math 107 with a C or better or c//.</del><br>Formulation of problems and top-down design of programs in a modern structured language for their solution on a digital computer.   | <b>Program Design and Development 4 (3-3)</b> <u>Course Prerequisite: MATH 106</u> with a C or better or concurrent enrollment.<br>Formulation of problems and top-down design of programs in a modern structured language for their solution on a digital computer.                                    | 8-12 |
| CS  | 402 | Revise | <b>[M] Social and Professional Issues in Computer Science 3</b> <del>Prereq certified in CS or ECE; completion of Writing Portfolio.</del><br>Social, legal, ethical and professional issues that arise in the context of computing.   | <b>[M] Social and Professional Issues in Computer Science 3</b> <u>Course Prerequisite: ENGLISH 402 or 403; certified major in Computer Science or Electrical Engineering.</u> Social, legal, ethical and professional issues that arise in the context of computing.                                   | 8-12 |
| CS  | 490 | Drop   | <b>Work Study Internship V 1 (0-3) to 9 (0-27)</b> May be repeated for credit; cumulative maximum 9 hours. Prereq CS 224 with a C or   | --N/A--   | 8-12 |

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|     |     |        | better; CS 261 with a C or better; certified in computer science; by permission only. Experience in programming and systems analysis in a working environment under supervision of industrial or governmental professionals and faculty. S, F grading.  |  |      |
| ECE | 101 | Revise | <b>Introduction to Electrical Engineering 2 (1-3)</b> <del>Prereq Math 107 or e//</del> . Introduction to the field of electrical engineering and the fundamental concepts behind electronic devices and systems.   | <b>Introduction to Electrical Engineering 2 (1-3)</b> <u>Course Prerequisite: MATH 106 or concurrent enrollment.</u> Introduction to the field of electrical engineering and the fundamental concepts behind electronic devices and systems.         | 8-12 |
| ECE | 214 | Revise | <b>Design of Logic Circuits 3 (2-3)</b> <del>Prereq ECE 101; Math 107.</del> Design and application of combinational logic circuits with exposure to modern methods and design tools; introduction to sequential logic circuits.  | <b>Design of Logic Circuits 3 (2-3)</b> <u>Course Prerequisite: ECE 101; MATH 106.</u> Design and application of combinational logic circuits with exposure to modern methods and design tools; introduction to sequential logic circuits.           | 8-12 |
| ECE | 405 | Revise | <b>[M] Professional Issues and Ethics in Electrical Engineering 3</b> <del>Prereq certified major in electrical engineering; completion of University Writing Portfolio.</del> Social, legal and professional issues that arise in the context of electrical engineering.                         | <b>[M] Professional Issues and Ethics in Electrical Engineering 3</b> <u>Course Prerequisite: Certified major in Electrical Engineering; ENGLISH 402.</u> Social, legal and professional issues that arise in the context of electrical engineering. | 8-12 |
| ECE | 490 | Drop   | <b>Work Study Internship V 2-4</b> May be repeated for credit; cumulative maximum 8 hours. Prereq by permission only. Experience in electrical engineering and systems analysis in a working environment under supervision of industrial or governmental professionals and faculty. S, F grading. | --N/A--  | 8-12 |
| FS  | 462 | Revise | <b>Food Analysis 4</b> <del>(2-6)</del> Course  | <b>Food Analysis 3</b> <u>(2-3)</u> Course   | 8-12 |

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|-------------|------------|---------------|--|--|-------------|
|             |            |               | Prerequisite: CHEM 345; FS 303; MBIOS 305; MBIOS 306; senior standing. Introductory food analysis; methods common to many food commodities. Cooperative course taught jointly by WSU and UI (FS 462). Recommended preparation: FS 460; FS 461.             | Prerequisite: CHEM 345; FS 303; MBIOS 305; MBIOS 306; senior standing. Introductory food analysis; methods common to many food commodities. Cooperative course taught jointly by WSU and UI (FS 462). Recommended preparation: FS 460; FS 461.   |             |
| <b>MECH</b> | <b>313</b> | <b>Drop</b>   | <b>Engineering Analysis 3</b> (2-3) Prereq CS 251, Math 220; Math 315; major in engineering. Analysis and modeling of engineering problems utilizing numerical and mathematical techniques and computers.  | --N/A--  | <b>1-12</b> |
| <b>MECH</b> | <b>416</b> | <b>Revise</b> | <b>[M] Mechanical Systems Design I 2</b> Prereq Mech 310; Mech 404; Mech 414. First term of the year-long capstone design; integrative design in mechanical engineering; multidisciplinary design project considering technical and nontechnical contexts. | <b>[M] Mechanical Systems Design I 2 Course</b> Prerequisite: <u>MECH 310; MECH 404; MECH 414 or concurrent enrollment.</u> First term of the year-long capstone design; integrative design in mechanical engineering; multidisciplinary design project considering technical and nontechnical contexts. | <b>8-12</b> |
| <b>MECH</b> | <b>425</b> | <b>Drop</b>   | <b>Introduction to Manufacturing Systems 3</b> Prereq Mech 310 or c//. Traditional and contemporary tools used to support direct manufacturing processes in a manufacturing enterprise.  | --N/A--  | <b>112</b>  |
| <b>MECH</b> | <b>467</b> | <b>Revise</b> | <b>Automation 3</b> (2-3) Prereq Mech 348. Automation systems, discrete event control using programmable logic controllers (PLC), robot programming, process control. Credit not granted for both Mech 467 and 567.  | <b>Automation 3</b> (2-3) <u>Course Prerequisite: MECH 304 or ECE 260; MECH 348.</u> Automation systems, discrete event control using programmable logic controllers (PLC), robot programming, process control. Credit not granted for both Mech 467 and 567.  | <b>8-12</b> |
| <b>Mech</b> | <b>468</b> | <b>Revise</b> | <b>Robotics 3</b> Prereq Mech 348. Industrial robots, kinematics,  | <b>Robotics 3 Course Prerequisite: MECH 304 or ECE 260; MECH</b>   | <b>8-12</b> |

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|       |     |        | control, robot programming, interfacing, sensors, actuators, vision systems and mobile robots. Credit not granted for both Mech 468 and 568.   | <u>348</u> . Industrial robots, kinematics, control, robot programming, interfacing, sensors, actuators, vision systems and mobile robots. Credit not granted for both Mech 468 and 568.   |      |
| MECH  | 495 | Drop   | <b>Internship in Industry V</b> 3-6<br>May be repeated for credit; cumulative maximum 12 hours. Prereq certified mech major. Students work full time on engineering assignment in approved industries with industrial and faculty supervision. S, F grading.   | --N/A--  | 8-12 |
| PSYCH | 316 | Drop   | <b>Applied Research in Psychology</b> 3 (2-3) Prereq Stat 212 or statistics course. Experimental design and statistics; research; problem solving in small group situations.   | --N/A--  | 1-12 |
| PSYCH | 372 | Revise | <del>[B] Introduction to Physiological Psychology</del> 3 Prereq Biol 102 or Biol 107; Psych 105 or Psych 198. Functional relationship between nervous system and behavior; integrated organ systems, sensory processes, and investigative procedures. Occasional lab meetings required; see instructor for times. | <b>[B] Biological Basis of Behavior</b> 3 Prereq Biol 102 or Biol 107; Psych 105 or Psych 198. Functional relationship between nervous system and behavior; integrated organ systems, sensory processes, and investigative procedures. Occasional lab meetings required. | 1-12 |
| PSYCH | 473 | Revise | <del>[M] Advanced Physiological Psychology</del> 3 Prereq Psych 372 or Neuro 301. Neurophysiological, hormonal, and biochemical bases of regulatory behavior; theoretical and applied issues.  | <b>[M] Advanced Biological Basis of Behavior</b> 3 Prereq Psych 372 or Neuro 301. Neurophysiological, hormonal, and biochemical bases of regulatory behavior; theoretical and applied issues.  | 1-12 |
| PSYCH | 592 | Revise | <del>Cognition and Memory</del> 3<br>Experimental approaches to human information processing, memory, and cognition.   | <b>Cognitive and Affective Basis of Behavior</b> 3<br>Experimental approaches to human information processing, memory, and cognition.  | 1-12 |
| Soils | 454 | Revise | <del>Soil Development and Classification</del> 3 (2-3) Prereq Soils  | <b>Pedology</b> 3 (2-3) Prereq Soils 201. <u>Morphology, genesis, and</u>  | 1-12 |

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|-------------|------------|-------------|--|---|-------------|
|             |            |             | <p>201. <del>Relationship of soil development to soil properties; soil profile descriptions and classification. Field trip required.</del> Cooperative course taught by UI, open to WSU students (SOIL 454).</p> | <p><u>classification of soils; distribution of soils as related to environmental processes and factors.</u> Cooperative course taught by UI, open to WSU students (SOIL 454).</p> |             |
| <b>W ST</b> | <b>383</b> | <b>Drop</b> | <p><b>[S, D] Sociology of Sexuality 3</b><br/>Prereq Soc 101, Soc 102, or W St 200. Social construction of sexuality, sexual behavior, and sexuality as part of social inequalities and institutions.</p>        | --N/A--   | <b>1-12</b> |