

Approved by Faculty Senate 3/5/09

MEMORANDUM

TO: Deans and Chairs  
 From: Becky Bitter, Assistant Registrar  
 DATE: 26 February 2009  
 SUBJECT: Minor Change Bulletin No. 3

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 Revise Drop	Current	Proposed	Effective Date
Astr	345	Revise	[P] Principles of Astronomy 3 Prereq Phys <del>102 or</del> 202. Planets, the sun, stars, and galaxies; current topics in astrophysics and planetary research.	[P] Principles of Astronomy 3 Prereq Phys 202; <u>Math 172; rec Phys 303.</u> Planets, the Sun, stars, and galaxies; current topics in astrophysics and planetary research.	8-09
Astr	450	Revise	[T] Life in the Universe 3 Prereq <del>completion of one Tier I and three Tier II courses and mathematics proficiency.</del> The natural history of life on earth and prospects for life elsewhere; includes chemistry, biology, geology, physics and astronomy.	[T] Life in the Universe 3 Prereq <u>GER mathematics [N]; junior standing; rec completion of physical sciences [P] and biology [B] GERs.</u> The natural history of life on earth and prospects for life elsewhere; includes chemistry, biology, geology, physics and astronomy.	8-09
C E	211	Revise	Statics 3 Prereq Math 172 or c//; Phys 201 or c//. Engineering mechanics concepts; force systems; static equilibrium; centroids, centers of gravity; shear and moment diagrams; friction; moments of inertia. Cooperative course taught jointly by WSU and UI ( <del>ES</del> 210).	Statics 3 Prereq Math 172 or c//; Phys 201 or c//. Engineering mechanics concepts; force systems; static equilibrium; centroids, centers of gravity; shear and moment diagrams; friction; moments of inertia. Cooperative course taught jointly by WSU and UI ( <u>ENGR</u> 210).	5-09
C E	215	Revise	Mechanics of Materials 3 Prereq C E 211 with a C or better. Concepts of stress, strain, and their relationships; axial loads, torsion and bending; combined stress; properties of materials; columns, repeated loadings. Cooperative course taught jointly by	Mechanics of Materials 3 Prereq C E 211 with a C or better. Concepts of stress, strain, and their relationships; axial loads, torsion and bending; combined stress; properties of materials; columns, repeated loadings. Cooperative course taught jointly by	5-09

			WSU and UI ( <del>ES 340</del> ).	WSU and UI ( <u>ENGR 350</u> ).	
C E	408	Revise	Air Pollution Control Engineering 3 Prereq senior in engineering or physical sciences. Measurement and control of air pollution; engineering design calculations; equipment and process. Credit not granted for both C E 408 and 508. Cooperative course taught jointly by WSU and UI ( <del>ChE 575</del> ).	Air Pollution Control Engineering 3 Prereq senior in engineering or physical sciences. Measurement and control of air pollution; engineering design calculations; equipment and process. Credit not granted for both C E 408 and 508. Cooperative course taught jointly by WSU and UI ( <u>ChE 475/575</u> ).	5-09
C E	435	Revise	Foundations 3 Prereq C E 317 with a C or better; certified major in C E or instructor permission. Site investigation; bearing capacity, settlement and design of shallow foundations, piles and piers; design of retaining walls. <del>Cooperative course taught by WSU, open to UI students (CE 461)</del>	Foundations 3 Prereq C E 317 with a C or better; certified major in C E or instructor permission. Site investigation; bearing capacity, settlement and design of shallow foundations, piles and piers; design of retaining walls.	5-09
C E	507	Revise	Seepage and Earth Dams 3 Principles of earth-dam design, failures, considerations in construction; principles governing flow of water through soils. Cooperative course taught by UI, open to WSU students ( <u>GEOL535</u> )	Seepage and Earth Dams 3 Principles of earth-dam design, failures, considerations in construction; principles governing flow of water through soils. Cooperative course taught by UI, open to WSU students ( <u>CE 563</u> )	5-09
C E	514	Revise	Advanced Mechanics of Materials 3 Elastic stress-strain relations, shear center, unsymmetrical bending, curved beams, elastic stability, elastically supported beams, energy methods, thin plates, shells.	Advanced Mechanics of Materials 3 Elastic stress-strain relations, shear center, unsymmetrical bending, curved beams, elastic stability, elastically supported beams, energy methods, thin plates, shells. <u>Cooperative course taught jointly by WSU and UI (CE 510/ME 539).</u>	5-09
C E	517	Revise	Mechanics of Sediment Transport 3 Cohesive and non-cohesive sediments; initiation of sediment motion; sediment transport; suspended and bed load entrainment; models of sediment transport for alluvial and gravel bed streams, sediment-flow interaction; river morphology and ecological restoration.	Mechanics of Sediment Transport 3 Cohesive and non-cohesive sediments; initiation of sediment motion; sediment transport; suspended and bed load entrainment; models of sediment transport for alluvial and gravel bed streams, sediment-flow interaction; river morphology and ecological restoration. <u>Cooperative course taught jointly by WSU and UI (CE 521).</u>	5-09
C E	521	Revise	Fundamentals of Fluid Flow 3 Prereq C E 315 or M E 303. Fundamental equations of compressible viscous flow, Newtonian viscous-flow	Fundamentals of Fluid Flow 3 Prereq C E 315 or M E 303. Fundamental equations of compressible viscous flow, Newtonian viscous-flow	5-09

			equations, laminar boundary layers, stability of laminar flows, incompressible turbulent flow. <u>Cooperative course taught by WSU, open to UI students (CE 525)</u>	equations, laminar boundary layers, stability of laminar flows, incompressible turbulent flow.	
C E	530	Revise	Advanced Design of Steel Structures 3 Prereq C E 431. Plate girder design; local and global buckling; plastic collapse analysis; shear and Moment-resisting connections; eccentrically-loaded connections.	Advanced Design of Steel Structures 3 Prereq C E 431. Plate girder design; local and global buckling; plastic collapse analysis; shear and Moment-resisting connections; eccentrically-loaded connections. <u>Cooperative course taught jointly by WSU and UI (CE 542).</u>	5-09
C E	537	Revise	Advanced Topics in Structural Engineering 3 May be repeated for credit; cumulative maximum 9 hours. Elastic stability, plates and shells, other relevant topics. <u>Cooperative course taught by WSU, open to UI students (CE 549)</u>	Advanced Topics in Structural Engineering 3 May be repeated for credit; cumulative maximum 9 hours. Elastic stability, plates and shells, other relevant topics.	5-09
C E	572	Revise	Advanced Pavement Analysis 3 Prereq C E 473. Fundamentals of pavement-vehicle interaction and the mechanics of pavement response and damage.	Advanced Pavement Analysis 3 Prereq C E 473. Fundamentals of pavement-vehicle interaction and the mechanics of pavement response and damage. <u>Cooperative course taught jointly by WSU and UI (CE 575).</u>	5-09
EconS	510	Revise	Statistics for Economists-4 Prereq college calculus and matrix algebra. Statistical theory underlying econometric techniques utilized in quantitative analysis of problems in economics and finance.	Statistics for Economists_3 Prereq college calculus and matrix algebra. Statistical theory underlying econometric techniques utilized in quantitative analysis of problems in economics and finance.	8-09
EconS	525	Revise	Master's Econometrics 3 Prereq 3 hours in statistics. Theory and practice of multiple regression methods; applications to the study of economic and other phenomena; use of computer regression programs. <u>Cooperative course taught by UI, open to WSU students (AGEC 525).</u>	Master's Econometrics 3 Prereq 3 hours in statistics. Theory and practice of multiple regression methods; applications to the study of economic and other phenomena; use of computer regression programs. <u>Cooperative course taught jointly by WSU and UI (AGEC 525).</u>	8-09
EconS	526	Revise	Master's Microeconomic Analysis 3 Prereq EconS 301 or 305; Math 171 or 202. Masters-level, calculus-based producer and consumer theory with selected managerial economics topics. <u>Cooperative course taught by WSU, open to UI students (AGEC 526).</u>	Master's Microeconomic Analysis 3 Prereq EconS 301 or 305; Math 171 or 202. Masters-level, calculus-based producer and consumer theory with selected managerial economics topics. <u>Cooperative course taught jointly by WSU and UI (AGEC 526).</u>	8-09
EconS	527	Revise	Mathematics for Economists 3 Prereq	Mathematics for Economists 3 Prereq	8-09

			graduate standing. Mathematical methods applicable to economic analysis and research. <del>Cooperative course taught by UI, open to WSU students</del> -(AGEC 527).	graduate standing. Mathematical methods applicable to economic analysis and research. <u>Cooperative course taught jointly by WSU and UI</u> (AGEC 527).	
EconS	532	Revise	Natural Resource Economics and Policy 3 Prereq EconS 301 or permission of instructor. Graduate-level counterpart of EconS 432; additional requirements. Credit not granted for both EconS 432 and 532. <del>Cooperative course taught by WSU, open to UI students</del> (AGEC 532).	Natural Resource Economics and Policy 3 Prereq EconS 301 or permission of instructor. Graduate-level counterpart of EconS 432; additional requirements. Credit not granted for both EconS 432 and 532. <u>Cooperative course taught jointly by WSU and UI</u> (AGEC 532).	8-09