

ADDENDUM I
Graduate Studies Committee
10/6/2009

- Acctg 550** **Introduction to Financial and Managerial Accounting** [reduction of credit – change 3 Prereq to V 2-3] V 2-3 Prereq enrollment in the MBA program. Fundamentals of financial and managerial accounting; primarily for graduate students who wish to meet the MBA core requirements in accounting.
- AFS 501** **Current Research in Organic and Sustainable Agriculture** [new course] Agricultural systems are shaped by a myriad of physical, economic, social, legal and philosophical factors. This course provides a multidisciplinary framework with which to assess the sustainability of range of farming and food systems.
- Ag Ed 508** **Foundations of Foundations of Career and Technical Education** [increase credit – change from 2 to 3] 3 Graduate standing. Historical, philosophical, social, political and economic factors that influence career and technical education in America and internationally.
- Ag Ed 508** **Foundations of Foundations of Career and Technical Education** [increase credit – change from 2 to 3] 3 Graduate standing. Historical, philosophical, social, political and economic factors that influence career and technical education in America and internationally.
- Biol/ES/RP 569** **Ecosystem Ecology and Global Change** [change parent department for crosslisting] 3 Prereq graduate standing. Same as ES/RP 569.
- BSysE 554/ C E 585** **Aquatic Ecosystem Restoration** [crosslisting] 3 (2-3) Prereq Chem 345, C E 583; MBioS 101 C E 581. Study of natural and damaged water systems with emphasis on water quality protection and restoration of lakes, rivers, streams and wetlands.
- BSysE 557** **Nutrient Cycling and Transport** [new course] 3 Graduate standing. Cycling of carbon, nitrogen, and phosphorus at global and watershed scales. Modeling of transformation and transport in agricultural systems. Strategies for pollution mitigation.
- BSysE 558** **Groundwater Flow and Contaminant Transport** [change course number – former 595] 3 Prereq Math 315; BsysE 351 or C E 351 or Geol 475. Physics of flow and contaminant transport in saturated porous media including governing equations, well hydraulics and computer modeling.

- BSysE 560/C E 583 Aquatic Chemistry** [crosslisting] 3 C E 518 or instructor permission. Chemical principles as applied to natural environmental systems, water supply and pollution control.
- BSysE 564 Agricultural Waste & Air Quality Management** [new course] 3 Graduate standing. This course introduces student to detailed analyses of agricultural wastes, their potential adverse impacts on the environment, current management systems to mitigate adverse impacts, and their reuse and recycle.
- BSysE 584 Thermal and Nonthermal Processing of Foods** [new course] 3 Graduate standing. Principles and practices of food preservation methods based on application of thermal and nonthermal processes.
- BSysE 585 Food Packaging** [new course] 3 graduate standing. The topics covered are packaging materials, properties of packaging materials, manufacturing of packages, shelf life testing, and food packaging interaction.
- BSysE 595 Biosystems Engineering for Fuel and Chemicals** [new course] 3 Graduate standing. Design and optimization of biological systems for industrial functions, modeling and simulation of cell processes, bioreactors, and system integration.
- BSysE 596 Biomass Thermo-Chemical Conversion** [new course] 3 Graduate standing. Introduction to biomass chemistry, analytical thermo-chemistry, torrefaction, pyrolysis, gasification and combustion (design, modeling and scale up). Characterization of uses of thermochemical products.
- Cpt S 552 Database Systems** [new course] 3 Graduate standing. Concepts of modern database systems and theory.
- EconS 529 Research Methods** [new course] V 1-2 Graduate standing. Prepare and communicate professional-quality research with an emphasis on learning how to identify, develop, write and present research. Cooperative course taught by WSU (AgEc 529); open to UI students.
- EconS 534 Production Economics** [former number 540] 3 Prereq EconS 526. Production economics theory and methods applied to problems of production response, economic optimization, technology, policy, risk and dynamics.
- Engl/AmSt 515 Contemporary Theories of Rhetoric** [Crosslisting] 3 Graduate Standing. Contemporary critical theory and cultural studies and reconsiderations of suasive discursive practices.

- FS 510** **Functional Foods and Health** [change title, prerequisite, and description; make effective for spring 09 for temporary request] Biochemistry equivalent to MBios 303, and one year of biology or permission of instructor. Functional foods provide health benefits beyond basic nutrition dealing with the actions of bioactive compounds in functional foods and nutraceuticals as relating to disease prevention and health promotion.
- I D 700** **Master's Research, Thesis, and/or Examination** [restore dropped course] V 1-18 May be repeated for credit. S, F grading.
- Math 533** **Teaching College Mathematics** [new course – decrease credit from on 3-credit course to a repeatable 1-credit course & title change] 1 Graduate standing. The theory and practice of mathematics instruction at the collegiate level. May be repeated for credit.
- MSE 508** **Polymer Nanocomposites and Functionalities** [new course] MSE 402 or equivalent. Graduate standing or permission of instructor. Structures, properties, fabrication, application of nano-scale materials and their polymer nanocomposites; functionalities including flame retardant, electrically, thermal, damping properties.
- MSE/M E 513** **Crystal Plasticity** [new course – temporary course - crosslisting] 3 Rec Math 440. Dislocation theory; slip; climb; mechanical properties of polycrystalline materials, and application to important deformation processes.
- Nurs 527** **Association, Group Difference and Regression Techniques for Health Sciences** [new course] Admission to graduate program, prior graduate statistics course or permission of instructor. Application of quantitative techniques to explore relationships and group differences among variables supporting research question in health science research.
- Nurs 528** **Multivariate Statistical Techniques for Health Sciences** [new course] Admission to graduate program, completion of Nurs 527 or permission of instructor. Application of quantitative techniques to explore multivariate relationships among variable supporting research questions in health science research.
- Nurs 529** **Analytical Seminar for Health Sciences** [new course – variable credit 1-3] V 1-3. Admission to graduate program, completion of Nurs 527 and Nurs 528 or permission of instructor. Seminar guided research techniques and to explore in-depth research methods used for health science research.
- Nurs 532** **Resource Stewardship in Health Care** [new course] Admission to graduate program or permission of instructor. Theory, research and

practice dimensions of resource stewardship to effectively manage human and material resources in the practice setting.

Nurs 551

Risk and Resilience in Child and Adolescent Health [new course]

Admission to graduate program or permission of instructor. Application of risk and resilience models in the development of strengths-based health interventions for child and adolescent populations.

Nurs 576

Organizational Leadership [new course] Admission to graduate program or permission of instructor. Integration of leadership competencies and nursing practice for nurse leaders in a constantly changing health care environment.

**SoilS/Stat/
ES/RP/Geol 508**

Environmental Spatial Statistics [new course – crosslisting – course fee]
Theoretical introduction and practical training in spatial data analysis for graduate students in the environmental sciences.