

**College of Agricultural Sciences and Natural Resources
Curriculum Committee
Summary of Actions**

November 22, 2013

Department Title and Number	Type of Action Requested (Underlining Indicates the Proposal Changes)	Approved CASNR	Approved UCC	Approved Graduate Council
AGRO 475/875 - Water Quality Strategy	<p>Change Home to School of Natural Resources (ACE 10) <u>NRES 475/875</u> . Water Quality Strategy (AGRO 475/875, CIVE 475/875, CRPL 475/875, GEOL 475/875, MSYM 475/875, POLS 475/875, SOCI 475/875, SOIL 475, WATS 475) (3 cr II) Lec 3. Prereq: Senior standing or permission. Capstone course.</p> <p>Holistic approach to the selection and analysis of planning strategies for protecting water quality from nonpoint sources of contamination. Introduction to the use of methods of analyzing the impact of strategies on whole systems and subsystems; for selecting strategies; and for evaluating present strategies.</p>	11/22/13		
BIOC 321 - Elements of Biochemistry	<p>Deletion of BIOS 102 Prerequisite BIOC 321. Elements of Biochemistry (3 cr) Lec 3. Prereq: CHEM 255 (preferred) or CHEM 251; BIOS 101 and BIOS 101L BIOS 102, or LIFE 120 and LIFE 120L. BIOC 321 will not count towards a biochemistry major. Structure and function of proteins, carbohydrates, lipids and nucleic acids; enzymes; principal metabolic pathways; and biochemical expression of genetic information.</p>	11/22/13		
BSEN 212B - Computational Tools and Modeling for Agricultural and Biological Systems Engineering: Simulink	<p>Change of Title, Description and Addition of Prerequisite BSEN 212B. Computational Tools and Modeling for Agricultural and Biological Systems Engineering: <u>Control Systems</u> (AGEN 212B) (1 cr II) Lec 1, lab 3. Prereq: AGEN or BSEN 112/112H; <u>ELEC 211 or ELEC 213 or PHYS 212, or parallel; or permission. This is a five-week mini course.</u></p> <p>Introduction to <u>microcontroller based embedded systems for agricultural and biological applications.</u> <u>Fundamental principles of microcontrollers and embedded systems through binary and hexadecimal number systems, digital logic, programming in integrated development environment, and microcontroller peripherals.</u> <u>Common agricultural and biological microcontroller input and output devices.</u></p>	11/22/13		
HORT 301- Introduction to Landscape Contracting	<p>New Course HORT 301. Introduction to Landscape Contracting (3 cr II) Lec 3. Prereq: HORT 267 or concurrent; HORT 388. Offered Spring of even years and alternate with HORT 300. Overview of the landscape contracting business and administration of contracts, cost estimation and bidding.</p>	11/22/13		

PGAM 302 - Golf for Success in Business and Life	Deletion of Course PGAM 302. Golf for Success in Business and Life (1 cr I) Fld 0. Prereq: Junior standing. Pass/No Pass only. There are additional fees that apply to PGAM 302 that are over and above the standard tuition and fees. Enrollment is limited. Contact the instructor for details. Not open to PGAM majors. Instructor provided by PGA professionals in golf course setting. Basic knowledge and skills of golf. Golf as a business tool.	11/22/13		
STAT 802 - Experimental Design	Change of Title, Addition of Prerequisite and Description STAT 802. Design and Analysis of Research Studies (4 cr) Lec 3, lab 2. Prereq: STAT 318 or STAT 801. <u>Essential statistical characteristics of a research study intended to assess the impact of treatment; environmental or population conditions on response. Focus is on both designed experiments and on studies for which controlled experiments are not feasible but characteristics of controlled experiment must be mimicked to the extent possible. Methods to assess power and compare efficiency of alternative designs are considered. Course covers major design structures, including blocking, nesting, multilevel models, split-plot and repeated measures, and statistical analysis associated with these structures.</u>	11/22/13		
STAT 971 - Advanced Statistical Modeling	Addition of Prerequisites and Description STAT 971. Advanced Statistical Modeling (3 cr) Prereq: STAT 802, STAT 882, STAT 882, STAT 883, STAT 970 and take Statistics MS Comprehensive Exam prior to start of STAT 971. <u>Statistical modeling beyond the ‘general linear model’ normally-distributed data, fixed-effects only case. Focus on, but not limited to, the theory and practice of generalized and mixed linear models. Issues include translation of study design to plausible models, inference space, data and model scale, conditional vs. marginal models, correlated data, zero-inflated data, likelihood-based estimation and inference.</u>	11/22/13		
STAT 973 - Theory of Multivariate Analysis	Addition of Prerequisite STAT 973. Theory of Multivariate Analysis (3 cr) Prereq: STAT 873 and STAT 970 or equivalent. Statistical inference concerning parameters of multivariate normal distributions with applications to multiple decision problems.	11/22/13		
Informational Item				
Approved Environmental Studies - Leadership and Entrepreneurship - New Emphasis Area				

We are furnishing information on recent CASNR Curriculum Committee actions. If you have any questions or concerns, your department head must contact Dean Steve Waller (swaller1@unl.edu) in writing by December 9, 2013. If we have heard no objections, we will assume you approve and the above changes will be forwarded to the appropriate UNL committees (University Curriculum Committee and/or UNL Graduate Council.)

¹The CASNR Dean's Office has a copy of the supporting material. *All curriculum requests tabled for a minimum of four months during any academic term (without additional information being presented to the CASNR Curriculum Committee) will be automatically withdrawn. (Policy statement approved by CASNR Curriculum Committee 2/13/98.)*



No approval needed

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