College of Agricultural Sciences and Natural Resources
Curriculum Committee
Summary of Actions
Date: June 20, 2019

Faculty Action[1]

Courses (new, revisions, deletions, ACE certification and recertification)

Unit Title and Number	Type of Action Requested	Approved CASNR Curriculum Committee	Approved CASNR Faculty
CDEV 834: Community Engagement for Civic Change	New Course 3 hrs. No prerequisites. This course is designed to help students add to their knowledge base and build their confidence in community engagement so that dialogue and deliberations leading to public decision making can be more productive and positive for everyone involved.	6.20.19	
AGRO 429/829: Plant Biotechnology Applications	New Course 3 hrs. Prereq: Faculty permission. Application of plant biotechnology to answer biological questions. Development of writing and thinking skills with a working knowledge of plant biology and biotechnology. Learning in a lab focused setting to solidify skills used in molecular biology.	6.20.19	
AGRO 445/845: Livestock Management on Range and Pasture	Crosslisting change (Adding GRAS 445) 3 hrs. Prereq: ASCI 250 and AGRO 240 or 340; AECN 201 recommended.	6.20.19	

	Analyzing the plant and animal resources and economic aspects of pasturage. Management of pasture and range for continued high production emphasized.		
ENTO 835: Chemical Ecology of Insect-Plant Interactions	Change in credit hours. ~~2~~ 3 hrs. Prereq: 15 hrs of agricultural sciences and/or biological sciences including one course in entomology and one course in biochemistry.	6.20.19	
FDST 280: Contemporary Issues in Food Science	Change in Prerequisite, Description 2 hrs. Prereq: None ~~CHEM 109; FDST 101 or 131.~~ Current issues in food science, organic foods, obesity and ~~food safety problems~~, the food industry, ~~impact of biotechnology on~~ food safety, allergens, biotechnology and GMOs, ~~production and processing, organic foods~~, functional foods, food psychology and culture, and foods and other contemporary topics.	6.20.19	
FDST 090: Success in Food Science and Technology	New Course. O hrs. Prereq: None. An orientation for majors within the Department of Food Science and Technology. Introduction to advising and university services, undergraduate research, study abroad, career paths and community building with faculty and fellow students.	6.20.19	
NRES 312: Introduction to Spatial ~~Geospatial Information~~ Sciences	Change to Title, Prerequisite, Description 3 hrs. Prereq: None ~~Junior standing; basic computer skills (spreadsheets, word processors, data and file management).~~ Overview of digital technology and concepts in spatial sciences. Geographic Information Systems, Remote Sensing, Geographic position systems and other spatial technology.	6.20.19	

	~~Introduction to the theory and applications of geospatial information technology. Remote sensing, GPS data collection, GIS data types, editing GIS data, and spatial data analysis with emphasis on applications to natural resources using a problem based learning format.~~		
STAT 874: Nonparametric Statistics	Change to Prerequisite, Description, Grading 3 hrs. Prereq: STAT 821 ~~801A~~ or STAT 870 ~~880.~~ Introduction to nonparametric statistics – methodology and supporting theory. Focus of this course is broadly divided into three components: traditional (e.g. distribution-free hypothesis testing), function estimation (e.g. alternatives to parametric linear and nonlinear models) and modern methods that emphasize prediction (e.g., density estimation, robustness, computational methods, reproducing kernel Hilbert space methods). ~~Statistical methods useful when data does not adhere to classical distributional assumptions. Analysis of interval/ordinal/categorical data for one, two and k sample problems, correlation and regression, goodness of fit methods and related topics.~~ Graded ~~with option.~~	6.20.19	
STAT 878: Time Series Analysis	New Course 3 hrs. Prereq: STAT 870 or STAT 821 and either STAT 880 or concurrent STAT 883. Introduction to models for data observed over time. Both theoretical and practical aspects of time series models will be presented. Main topics include the Box-Jenkins model class, spectral analysis, and GARCH models.	6.20.19	

	Forecasting will be emphasized throughout. The main statistical software package used will be R. Other statistical software packages and programming languages will be introduced as needed.		
STAT 886: Applied Bayesian Analysis	New Course 3 hrs. STAT 801A or STAT 801B and either STAT 880 or concurrent STAT 883. Bayesian data analysis with emphasis on application and computation using R or similar software. Topics include; probability models, prior distributions, Bayes' theorem, single parameter models, posterior predictive distribution, Gibbs sampling MCMC simulations, regression models, generalized linear models, hierarchical models, model checking and diagnostics.	6.20.19	
STAT 972: Variance Component Estimation	Course Inactivation 3 hrs. Prereq: STAT 970. Design and analysis of random effects and mixed models. Basic theoretical background for models with fixed effects, distribution of quadratic forms, quadratic estimators including ANOVA methods, likelihood estimators including ML and REML, computing strategies, and optimal nested and cross classifications.	6.20.19	
STAT 986: Foundations of Bayesian Analysis	New Course 3 hrs. Prereq: Applied Bayes STAT 886 and at least one of STAT 980 or STAT 982. The foundational ideas and structure of Bayesian theory from its axiomatic and fundamental assumptions, including Savage's	6.20.19	

	axioms, complete class theorems, sequential properties, prior selection, model selection, Bayesian nonparametrics, and asymptotics for both the parametric and nonparametric cases.		

New degree programs, options, specializations, certificates, minors (undergraduate and graduate)[2]

Unit Title and Number	Type of Action Requested	Approved CASNR Curriculum Committee	Approved CASNR Faculty
Biological Systems Engineering	Degree Name Change	6.20.19	
Biochemistry Options – Computational Biology & Standard	New Specialization	6.20.19	

College core requirements and academic policies, name changes for any credentialed academic program, transfer articulation agreements

Unit Title and Number	Type of Action Requested	Approved CASNR Curriculum Committee	Approved CASNR Faculty
CASNR ADA Syllbus Language	Adopt Student Disability Services's new ADA language in CASNR syllabi.	6.20.19	

Other action that requires Academic Planning Committee (APC), Board of Regents and/or Nebraska Coordinating Commission for Postsecondary Education approval

Unit Title and Number	Type of Action Requested	Approved CASNR Curriculum Committee	Approved CASNR Faculty
None			

Curriculum Committee Approval Only: substitutions/waivers, student appeals, bulletin copy (format, consistency, accuracy, editorial), operating procedures for the curriculum committee

Type of Action Requested	Approved CASNR Curriculum Committee
Information Items: tabled items, calendar of meetings and deadlines, changes in membership, program changes in degree program that do not include the college core, ACE assessment reports	
AECN 896: Special Topics in Agricultural Economics - Tabled	
AECN 901J: Natural Resource Economics - Tabled	
FDST 455/855: Microbiology of Fermented Foods -Tabled	
FDST 908E: Readings in Food Microbiology	

Footnotes:

[1] If you have specific questions or concerns, please visit with your CANSR Curriculum Committee Representative to discuss the specific agenda item.

Any unit or group of at least five (5) faculty may challenge a decision of the Committee that requires faculty action by filing a written objection. The unit administrator will coordinate the written response to the Dean by July 5, 2019. Unless the concerns can be resolved with clarification, revision and/or withdrawal and re-submission, the matter in question will be brought before the full faculty for discussion, debate and vote. If no written objections are properly filed, the action will be considered approved by the College faculty and either implemented or forwarded to the appropriate University Committee (University Curriculum Committee, Graduate Council and/or Academic Planning Committee) with the faculty recommendation for approval.

[2] The CASNR Curriculum Committee serves as the Parent Unit for the following degree programs:
B.S. in Applied Science, B.S. in Forensic Science, B.S. in Integrated Science (pending approval by the Nebraska Coordinating Commission for Postsecondary Education), Master of Applied Science, and Doctor of Plant Health