

CANR Curricula and Courses Committee
Meeting Minutes Final
October 17, 2014

- I. Call to order.** – The meeting was called to order by chair Mike Darre at 1:22 pm
Members present: Rhonda Brownbill, Mike Darre, Sal Frasca, Susan Gregoire, Patricia Jepson, Deepak Joglekar, Gary Kazmer, Tom Meyer, and Denise Ward.

II. Old Business:

- A. From ARE: ADD: ARE 5991 Experiential Learning Capstone Effective SU 2016 CAHNR CC 14-15-18

Gary moved and Sal seconded to remove from the table. Motion passed. The department agreed with the CAHNR CC Committee and revised the submission to change to a professional internship.

Proposed Title and Complete Catalog Copy:

ARE 5991 Professional Internship. Three credits. Pre-requisite: instructor consent.

Project-based fieldwork with an approved partnering organization related to sustainable economic development, including agribusiness management, marketing and financial analysis, food systems, and economic development.

MOTION PASSED CAHNR CC 14-15-18R1.

- B. From ARE: ADD: ARE 6464 Experimental Methods for Program Evaluation. Effective fall 2015 CAHNR CC 14-15-20

Gary moved and Denise seconded to remove from the table. Motion passed. The department added the catalog description and added more information to the syllabus topic outline, including the readings.

Proposed Title and Complete Catalog Copy:

ARE 6464: Experimental Methods for Program Evaluation. Three credits. . Prerequisites: A graduate level introduction to statistics or econometrics class, or equivalent. Recommended preparation: A graduate level microeconomic theory course.

Theory and practice of field-based program experiments, often referred to as randomized controlled trials (RCTs). All aspects of experimental program evaluation, including the design of evaluation strategy and working with survey and program staff. Examples from both developing country contexts and Western country program evaluation.

MOTION PASSED CAHNR CC 14-15-20R1

- B. Electronic CAR form updates. Mike Oatley is continuing to upgrade the form.

III. New Business:

- A. The Department of Nutritional Sciences proposes the following:

1. REVISE: NUSC 2200 Nutrition and Human Development. Change course description, Effective Spring 2015 . Rhonda moved and Sue seconded the motion to revise the course.

Current catalog copy:

NUSC 2200. Nutrition and Human Development (200) Three credits. Prerequisite: [NUSC 1165](#).

Nutritional needs and consequences of nutritional deficiencies throughout the life cycle: periconception, pregnancy, lactation, childhood, adolescence and aging. Maternal and child public health issues in the developed and developing world.

Revised catalog copy:

NUSC 2200. Nutrition and Human Development (200) Three credits. Prerequisite: [NUSC 1165](#).

Nutritional needs and consequences of nutritional deficiencies throughout the life cycle: preconception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and aging. Maternal and child public health issues.

MOTION PASSED CAHNR CC 14-15-23

B. The Department of Animal Science proposes the following:

- 1.REVISE: ANSC 3641 Animal Food Products: Dairy Technology. Change the instructional pattern and catalog description. Effective Spring 2015 Gary Moved and Tom seconded the motion to approve the revision.

Current Title and Catalog Copy:

ANSC 3641. (252) Animal Food Products: Dairy Technology. Three credits. D'Amico.

The study of milk and milk-products from a food science perspective including production and processing, the chemical, physical and microbiological components, the technological aspects of the transformation of milk into various food products, public health regulations, good manufacturing practices, cleaning and sanitizing procedures, unit operations in dairy food manufacturing, packaging, labeling and quality control procedures.

Revised Title and Catalog Copy:

ANSC 3641. Animal Food Products: Dairy Technology. (252) Three credits. Two class periods and one 2-hour laboratory or discussion period. Prerequisite: Open to juniors or higher. D'Amico.

Production and processing of milk and milk-products from a food science perspective including chemical, physical and microbiological components. Technological aspects of the transformation of milk into various food products. Public health regulations, good manufacturing practices, cleaning and sanitizing procedures. Unit operations in dairy food manufacturing, packaging, labeling and quality control procedures.

The committee suggested changes to the syllabus: add a letter grading scheme, and change the cheating and plagiarism policy to academic integrity policy.

MOTION PASSED CAHNR CC 14-15-24

C. The Department of Natural Resources and the Environment proposes the following:

1. REVISE: NRE 3345/NRE 3345W Wildlife Management Techniques. Change in pre-requisites and instructional pattern. Effective Fall 2015. Tom moved and Sal seconded the motion.

Current Title and Catalog Description:

NRE 3345. Wildlife Management Techniques (233) (Formerly offered as NRME 3345.) Four credits. Two class periods and two 2-hour laboratories . Prerequisite: [NRE 3335](#); open to juniors or higher. One or more field trips will be required.

Based upon understanding and applying ecological principles, technology and science based information to fulfill human goals for wildlife resources and their habitats. Use of literature, development of basic field and laboratory skills, and application of management and research principles are integral. Collection and reporting of biological data upon which wildlife conservation decisions are based are emphasized. Designed for pre-professional students and meets professional certification requirements.

3345W. Wildlife Management Techniques

Prerequisite: [NRE 3335](#); [ENGL 1010](#) or [1011](#) or [2011](#); open to juniors or higher.

Revised Title and Catalog Description:

NRE 3345. Wildlife Management Techniques

Four credits. Three class periods and one 3-hour laboratory. Prerequisite: NRE 2345; open to juniors or higher; Others by instructor consent. Recommended preparation: STAT 1100, MATH 1060Q, and MATH 1110Q or higher, and EEB 2244. One or more field trips will be required.

Design and implementation of projects for wildlife research and monitoring that address conservation and management issues. Topics include capture and handling of animals, population estimation, wildlife-habitat relationships, resource selection, and space use. This course is designed for pre-professional students and meets professional certification requirements.

3345W. Wildlife Management Techniques

Four credits. Three class periods and one 3-hour laboratory. Prerequisite: NRE 2345; open to juniors or higher; Others by instructor consent. Recommended preparation: STAT 1100, MATH 1060Q, and MATH 1110Q or higher, and EEB 2244. One or more field trips will be required.

Content as in NRE 3345. Requires major writing assignments.

The committee made some editorial changes to the description submitted to clarify the pre-requisites.

MOTION PASSED CAHNR CC 14-15-25

2. REVISE: Sustainable Forest Resources Concentration. Add NRE 2455 Forest Ecology to the concentration. Effective Spring 2015 (or sooner). Tom moved and Denise seconded.

Current Catalog Copy:
Sustainable Forest Resources

All of the following: [NRE 2345](#), [2415](#), [3125](#), [3500](#), [3690](#), [4455](#); [4475](#)

One course from the following: [NRE 4544](#), [4545](#) or [4575](#) and

One course from the following: [NRE 3246](#), [ARE 3434](#) or [ARE 3434](#) and [3440W](#)

Revised Catalog Copy:

Sustainable Forest Resources

All of the following: [NRE 2345](#), [2415](#), [2455](#), [3125](#), [3500](#), [3690](#), [4455](#); [4475](#)

One course from the following: [NRE 4544](#), [4545](#) or [4575](#) and

One course from the following: [NRE 3246](#), [ARE 3434](#) or [ARE 3434](#) and [3440W](#)

Motion Passed CAHNR CC 14-15-26

D. The Department of Allied Health Sciences proposes the following:

(Common actions for motions 1-8 Rationale: OSH Concentration has been renamed to OEHS Concentration, and OSH courses listed below are either required or elective courses for students in the OSH Post-baccalaureate Certificate Program)

1. REVISE: AH 3173 Psychology of Workplace Safety. Include OSH certificate students to the enrollment restrictions. Effective immediately. Sue Moved and Rhonda Seconded.

Current Catalog Copy:

3173. Psychology of Workplace Safety

(Also offered as OSH 3173.) Three credits. Prerequisite: Open only to BGS students and Allied Health Sciences OSH concentration majors juniors or higher; others with consent.

Recommended preparation: One 1000-level or above psychology course.

Knowledge on the human factors and behaviors that have an impact upon the safety performance of employees in the workplace, and intervention strategies to improve individual and organizational safety performance.

Revised Catalog Copy:

3173. Psychology of Workplace Safety

Three credits. Prerequisite: Open only to BGS students and Allied Health Sciences-**OEHS** concentration majors juniors or higher, **and OSH Certificate students**; others with consent.

Recommended preparation: One 1000-level or above psychology course.

Knowledge on the human factors and behaviors that have an impact upon the safety performance of employees in the workplace, and intervention strategies to improve individual and organizational safety performance.

MOTION PASSED CAHNR CC 14-15-27

- 2: REVISE: AH 3270 Fire and Security Management. Include OSH certificate students to the enrollment restrictions. Effective immediately. Sue Moved and Rhonda Seconded.

Current Catalog Copy:

3270. Fire and Security Management

(Also offered as OSH 3270.) Three credits. Prerequisite: Open only to BGS students and Allied Health Sciences OSH concentration majors juniors or higher; others with consent.

Comprehensive overview of fire and security management in an occupational setting. Topics include principles of fire and security protection, the development of fire and security

management systems to protect people and property, the application of measures to prevent fires and security breaches, the review of governmental and professional agencies and their roles, life safety for building occupants, crisis management, current risks and threats, and teaming to maximize fire safety, security and crisis response.

Revised Catalog Copy:

3270. Fire and Security Management

Three credits. Prerequisite: Open only to BGS students and Allied Health Sciences-OEHS concentration majors juniors or higher, **and OSH Certificate students**; others with consent. Comprehensive overview of fire and security management in an occupational setting. Topics include principles of fire and security protection, the development of fire and security management systems to protect people and property, the application of measures to prevent fires and security breaches, the review of governmental and professional agencies and their roles, life safety for building occupants, crisis management, current risks and threats, and teaming to maximize fire safety, security and crisis response.

MOTION PASSED CAHNR CC 14-15-28

3: REVISE: AH 3275 HAZWOPER. Include OSH certificate students to the enrollment restrictions. Effective immediately. Sue Moved and Rhonda Seconded.

Current Catalog Copy:

3275. HAZWOPER

(285) Three credits. Prerequisite: Open only to Allied Health Sciences majors, Environmental Science majors, Environmental Engineering majors, and students in the Occupational Safety and Health program, others with instructor consent; open to juniors or higher. Provides individuals the necessary knowledge and training to meet the criteria for certification recognized by the Occupational Safety and Health Administration (OSHA) in work activities related to hazardous waste sites and clean up operations involving hazardous substances. Mandatory off-site field exercise required.

Revised Catalog Copy:

3275. HAZWOPER

(285) Three credits. Prerequisite: Open only to Allied Health Sciences majors, Environmental Science majors, Environmental Engineering majors, juniors or higher; **and OSH Certificate students**; others with instructor consent. Provides individuals the necessary knowledge and training to meet the criteria for certification recognized by the Occupational Safety and Health Administration (OSHA) in work activities related to hazardous waste sites and clean up operations involving hazardous substances. Mandatory off-site field exercise required.

MOTION PASSED CAHNR CC 14-15-29

4: REVISE: AH 3278 Workers' Compensation Law and Related Issues. Include OSH certificate students to the enrollment restrictions. Effective immediately. Sue Moved and Rhonda Seconded.

Current Catalog Copy:

3278. Workers' Compensation Law and Related Issues

(Also offered as OSH 3278.) Three credits. Prerequisite: Open only to BGS students and Allied Health Sciences OSH concentration majors juniors of higher; others with consent. Knowledge of state and federal workers' compensation laws, and the interrelationship of these laws with other laws; laws governing workplace injuries and practical considerations for handling of claims.

Revised Catalog Copy:

3278. Workers' Compensation Law and Related Issues

Three credits. Prerequisite: Open only to BGS students and Allied Health Sciences-**OEHS** concentration majors juniors or higher, **and OSH Certificate students**; others with consent. Knowledge of state and federal workers' compensation laws, and the interrelationship of these laws with other laws; laws governing workplace injuries and practical considerations for handling of claims.

MOTION PASSED CAHNR CC 14-15-30

5: REVISE: AH 3570 Health and Safety Management in the Workplace. Include OSH certificate students to the enrollment restrictions. Effective immediately . Sue Moved and Rhonda Seconded.

Current Catalog Copy:

3570. Health and Safety Management in the Workplace

(Also offered as OSH 3570.) Three credits. Students who have passed either AH 280 or 282 will receive only 2 credits toward graduation. Prerequisite: Open only to BGS students and Allied Health Sciences OSH concentration majors juniors or higher; others with consent. Not open for credit to students who have passed both AH 280 and 282. Knowledge and skills necessary to develop a sustainable occupational health and safety management program in the workplace toward the goal of preventing illness and injury, and property damage.

Revised Catalog Copy:

3570. Health and Safety Management in the Workplace

Three credits. Students who have passed either AH 280 or 282 will receive only 2 credits toward graduation. Prerequisite: Open only to BGS students and Allied Health Sciences-**OEHS** concentration majors juniors or higher, **and OSH Certificate students**; others with consent. Not open for credit to students who have passed both AH 280 and 282. Knowledge and skills necessary to develop a sustainable occupational health and safety management program in the workplace toward the goal of preventing illness and injury, and property damage.

MOTION PASSED CAHNR CC 14-15-31

6: REVISE: AH 3571 Health Hazards in the Workplace. Include OSH certificate students to the enrollment restrictions. Effective immediately. Sue Moved and Rhonda Seconded.

Current Catalog Copy:

3571. Health Hazards in the Workplace

(281) (Formerly offered as AH 3271.) (Also offered as OSH 3571.) Three credits. Prerequisite: Open only to BGS students and Allied Health Sciences OSH concentration majors juniors or higher; others with consent. Recommended preparation: AH 2001. Anticipation, recognition, evaluation, control, and communication of health hazards in the workplace.

Revised Catalog Copy:

3571. Health Hazards in the Workplace

(281) (Formerly offered as AH 3271.) Three credits. Prerequisite: Open only to BGS students and Allied Health Sciences juniors or higher, **and OSH Certificate students**; others with consent. Recommended preparation: AH 2001. Anticipation, recognition, evaluation, control, and communication of health hazards in the workplace.

MOTION PASSED CAHNR CC 14-15-32

7: REVISE: AH 3573 Health and Safety Standards in the Workplace. Include OSH certificate students to the enrollment restrictions. Effective immediately. Sue Moved and Rhonda Seconded.

Current Catalog Copy:

3573. Health and Safety Standards in the Workplace
(283) (Formerly offered as AH 3273.) (Also offered as OSH 3573.) Three credits. Prerequisite: Open only to BGS students and Allied Health Sciences OSH concentration majors juniors or higher; others with consent.
Comprehensive overview of workplace health and safety regulatory processes and standards.

Revised Catalog Copy:

3573. Health and Safety Standards in the Workplace
(283) (Formerly offered as AH 3273.) Three credits. Prerequisite: Open only to BGS students and Allied Health Sciences-**OEHS** concentration majors juniors or higher, **and OSH Certificate students**; others with consent.
Comprehensive overview of workplace health and safety regulatory processes and standards.

MOTION PASSED CAHNR CC 14-15-33

8: REVISE: AH 3574 Ergonomics. Include OSH certificate students to the enrollment restrictions. Effective immediately. Sue Moved and Rhonda Seconded.

Current Catalog Copy:

3574. Ergonomics
(284) (Formerly offered as AH 3274.) (Also offered as OSH 3574.) Three credits.
Prerequisite: Open only to BGS students and Allied Health Sciences juniors or higher; others with consent.
Knowledge and skills for achieving optimal relationships between humans and their work environment.

Revised Catalog Copy:

3574. Ergonomics
(284) (Formerly offered as AH 3274.) Three credits. Prerequisite: Open only to BGS students and Allied Health Sciences juniors or higher, **and OSH Certificate students**; others with consent.
Knowledge and skills for achieving optimal relationships between humans and their work environment.

MOTION PASSED CAHNR CC 14-15-34

D. The Department of Agriculture and Resource Economics proposes the following:

1. REVISE: Requirements for the Equine Business Management minor. Add ARE 3221 and ARE 3222 to the list of electives specified for the Equine Business Management minor. *Effective catalog year 2015-16.* Deepak moved and Gary Seconded.

Current catalog description

The minor provides interested students with an overview of marketing, management, and financial principals and concepts in equine management. Analytical and applied decision-making skills are emphasized.

All students are required to complete 18 credits from the following two groups:

Nine credits from the core courses: ANSC 2251, 3452; ARE 3210, 3215

Nine credits from the following courses: ARE 3225, 4217, 4275, 4438, 4464 and any one 3000-level or above ARE course, if approved by the minor advisor.

Students must earn a combined grade point average of 2.5 or higher for all courses listed above.

The minor is offered by the Department of Agricultural and Resource Economics.

Revised catalog description

The minor provides interested students with an overview of marketing, management, and financial principals and concepts in equine management. Analytical and applied decision-making skills are emphasized.

All students are required to complete 18 credits from the following two groups:

Nine credits from the core courses: ANSC 2251, 3452; ARE 3210, 3215

Nine credits from the following courses: ARE 3221, 3222, 3225, 4217, 4275, 4438, 4464 and any one 3000-level or above ARE course, if approved by the minor advisor.

Students must earn a combined grade point average of 2.5 or higher for all courses listed above.

The minor is offered by the Department of Agricultural and Resource Economics.

MOTION PASSED CAHNR CC 14-15-35

2. REVISE: Requirements for the Masters Degree program in Sustainable Economic Development approved by the CAHNR C&C committee on October 3, 2014.

Current curriculum

Foundation 1: Agricultural and Resource Economics: 12 credits

Required: 9 credits

ARE 5150 Microeconomic Foundations for Sustainability*

ARE 5211 Quantitative Analysis for Sustainable Development*

ARE 5215 Sustainable Business Management*

Electives: 3 credits from the following:

ARE 5462 Benefit-Cost Analysis in the Food and Resource Industries

ARE 4438 Valuing the Environment

Foundation 2: Economic Development: 12 credits

Required: 6 credits

ARE 5305 The Role of Agriculture and Natural Resources in Economic Development

ARE 5xxx Any suitable 4000 or 5000 level ARE course

Electives: 6 credits.

One of the following (3 credits):

GEOG 5500 Fundamentals of GIS
NRE 5575 Natural Resource Applications of GIS

One of the following (3 credits):

Social Sciences: DARE and other CAHNR Departments, Economics, Geography, Political Science, and Public Policy.

Natural Sciences: Ecology and Evolutionary Biology, Civil & Environmental Engineering, any
from CANR departments, and Marine Sciences.

Foundation 3: Service-Learning: 3 credits (3 months)

ARE 599X Capstone Internship/Experiential Learning

Based upon the advisor's approval of a experiential-learning contract, field work with a sponsoring organization.

Revised curriculum

Foundation 1: Fundamental Principles and Theory: 12 credits

Required: 9 credits

ARE 5150 Microeconomic Foundations for Sustainability

ARE 5215 Sustainable Business Management

ARE 5305 The Role of Agriculture and Natural Resources in Economic Development

Any 4000 or 5000 level ARE course

Foundation 2: Tools and Methods: 12 credits

Required: 6 credits

ARE 5211 Quantitative Analysis for Sustainable Development

GEOG 5500 Fundamentals of GIS**

(* Other 4000 or 5000 GIS courses in the GEOG and NRE Departments can substitute for this requirement.)

Electives:

3 credits from the following:

ARE 5462 Benefit-Cost Analysis in the Food and Resource Industries

ARE 4438 Valuing the Environment

3 credits from the following:

Social Sciences: Any ARE, Economics, Geography, Political Science, or Public Policy.

Natural Sciences: Any CAHNR department, Ecology and Evolutionary Biology, Civil & Environmental Engineering, or Marine Sciences.

Foundation 3: Practical Experience and Application: 3 credits (14 weeks)

ARE 5991 Professional Internship

Based upon the advisor's approval of a suitable project with a partner organization.

3. REVISE: Rename ARE 5201 Microeconomics I to "Microeconomics". Effective spring 2015. (The current name of ARE 5201 is "Microeconomics I". ARE 5201 is cross-listed with ECON 5201 which is now named "Microeconomics) Deepak moved and Gary seconded.

Current Catalog Description

ARE 5201 Microeconomics I

Beginning graduate microeconomics covering consumer and producer theory, price determination, economic efficiency, and welfare analysis.

Revised Catalog Description

ARE 5201 Microeconomics

Beginning graduate microeconomics covering consumer and producer theory, price determination, economic efficiency, and welfare analysis.

MOTION PASSED CAHNR CC 14-15-37

IV. Report from Academic Programs: None

V. Other Business: None

VI. Time and Place of next meeting. November 21, 2014. 1:15 pm WBY 209

VII. Adjourn The meeting adjourned at 2:48 pm.