

CANR Curricula and Courses Committee
Meeting Minutes
March 23, 2012

I. The meeting was called to order at 2:11 by Chair Mike Darre. Members present were: Marilyn Altebello, Rhonda Brownbill, Mike Darre, George Elliott, Sal Frasca, Susan Gregoire, Pat Jepson, Gary Kazmer, and Jason Vokoun (sitting in for Mark Rudnicki)

Guests: Kathleen Segerson from the Environmental Studies Faculty Advisory Board.

II. The minutes of March 2, 2012 we approved as distributed.

III. Old Business:

A. Pat Jepson asked that all departments submit their comments on the draft for new requirements for the AGNR major ASAP to her for consideration. (Attached to end of minutes March 2 minutes)

B. Each major needs to double check the way the overlap with minors is written, to be sure the meaning is correct, such as "At least 12 credits must not duplicate courses used to satisfy the 36 credit requirement for the student's major, or for another minor in the College of Agriculture and Natural Resources."

C. It was proposed to add the following courses that will be used in the proposed Environmental Studies Major

1. ADD: EVST 1000. Introduction to Environmental Studies

Either semester. Three credits. Field trips required.

Survey of human-nature interrelationship through interdisciplinary environmental themes and study of specific environmental issues.

MOTION PASSED CANR CC 11-12-53 Effective Immediately

2. ADD: EVST 4000W. Environmental Studies Capstone Research Project

Either semester. Three credits. Prerequisites: ENGL 1010 or 1011 or 3800.

Consent of Instructor required. Open to juniors or higher.

Individual student research projects integrate knowledge and perspectives on environmental issues. Extensive reading, research, written work and presentation/oral communication required.

MOTION PASSED CANR CC 11-12-54 Effective Immediately

D. It was proposed to add a New Major titled Environmental Studies. The major leads to a Bachelor of Arts degree in the College of Liberal Arts and Sciences (CLAS) or the College of Agriculture and Natural Resources (CANR). The student's choice of colleges should be made in consultation with faculty and advisors based upon the student's interests and career goals.

Requirements:

Introductory Courses

All majors must take three introductory courses:

- EVST 1000. Introduction to Environmental Studies
- NRE 1000. Environmental Science; or GEOG 2300. Introduction to Physical Geography; or GSCI 1050. Earth and Life Through Time with Lab; or GSCI 1051. Earth and Life Through Time
- BIOL 1102. Foundations of Biology; or, for those seeking a more advanced background, BIOL 1108. Principles of Biology II

Core Courses (18 credits)

Humanities Core: All majors must take 2 of the following courses:

- PHIL 3216. Environmental Ethics
- HIST 3540. American Environmental History
- ENGL 3240. American Nature Writing

Social Sciences Core: All majors must take 2 of the following courses

- ARE 3434. Environmental and Resource Policy
- NRE 3245. Environmental Law
- POLS 3412. Global Environmental Politics

Natural Science Core: All majors must take 2 of the following courses:

- EEB 2208. Introduction to Conservation Biology
- GEOG 3400. Climate and Weather
- AH 3175. Environmental Health
- GSCI 3010. Earth History and Global Change
- NRE 4170. Climate-Human-Ecosystem Interactions

EVST 4XXXW. Capstone Research Project (3 credits). All majors must complete a capstone research project, which fulfills the W and Information Literacy requirements for the major.

Additional requirements for the major: In addition, environmental studies majors in CANR must take an additional 15 credits of courses at the 2000 level or above to meet the 36-credit major requirement. These courses must be designed to form a coherent set of additional courses that will provide the student with a focus or additional depth in an area of interest related to the major. They must be chosen in consultation with the student's faculty advisor and be approved by the advisor. Courses listed above that are not used to meet the core requirements may be used to meet this requirement.

MOTION PASSED CANRCC 11-12-55 Effective Immediately

E. It was moved to remove motion CANR CC 1-12-51 from the table: REVISE: SOIL 2120 Soils - A change in title, add CHEM 124 to the listing of possible CHEM courses and offer as CA 3 Gen Ed. It was moved to revise the proposed title to Environmental Soil Science.

Current Title and Catalog Copy: 2120. Soils (251) (Formerly offered as PLSC 251.) Three credits. Three class periods. Prerequisite: CHEM 1122, 1127 or 1147. Not open for credit to students who have passed PLSC 250. Schulthess

Introduction to the physical, chemical and biological properties of soils. The relationship

between soils and the growth of higher plants. Impact of soils on environmental quality.

Revised Title and Catalog Copy: 2120. Environmental Soil Science (Formerly offered as PLSC 251.) Three credits. Three class periods. Prerequisite: CHEM 1122, 1124, 1127 or 1147. Not open for credit to students who have passed PLSC 250. Schulthess Introduction to the physical, chemical and biological properties of soils. The relationship between soils and the growth of higher plants. Impact of soils on environmental quality. CA-3

MOTION PASSED CANR CC 11-12-51 Effective Fall 2012

IV. New Business:

A. Plant Science and Landscape Architecture proposed the following:

1. REVISE: Minors in Landscape Design, Ornamental Horticulture and Turfgrass Management. Change language relative to credits applying toward major.

Current Requirements and Catalog Copy

Landscape Design

This minor provides an introduction to landscape architecture, the communication of ideas via presentation drawing, and the methodology of designing the landscape to meet individual and societal needs.

Students in this minor must pass: HORT 3710; LAND 2110, 2210 And three of the following courses: HORT 2430, 2750, 3410, 3420; LAND2220, 3230W; TURF 3720

At least 12 of the credits taken to satisfy the minor must be from courses that are not required for the student's major or other minors within the College of Agriculture and Natural Resources.

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 Plant Science and Landscape Architecture.

Ornamental Horticulture

The minor in Ornamental Horticulture provides an introduction to the production, maintenance and use of plants to enhance human environments.

All students are required to complete a minimum 15 credits including HORT 3640 6 credits from among: HORT 2430, 3410, 3420, 3560 3 credits from among: HORT 2520, 2750, 3530, 3660, 3670, 3760 3 credits from among: PLSC 3810, 3820, 3830, 3840

At least 12 of the credits taken to satisfy the minor must be from courses that are not required for the student's major or other minors within the College of Agriculture and Natural Resources.

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 Plant Science and Landscape Architecture.

Turfgrass Management

The minor in Turfgrass Management provides an introduction to the management and maintenance of turfgrasses used for aesthetics (residential and commercial lawns, parks, institutional grounds), recreation (golf courses, athletic and sports fields), and functional purposes (sod farms, highway medians, inland and coastal erosion control sites, conservation). This minor will also assist those interested in sales, marketing, or any other business aspects of industries associated with turfgrass and ornamental horticulture.

All students are required to complete a minimum of 16 credits including: TURF 1100, 3200/W, 3800; SOIL 2120 And any two of the following: TURF 3100, 3300, 3400, 3720; SOIL 3520

At least 12 of the credits taken to satisfy the minor must be from courses that are not required for the student's major or other minors within the College of Agriculture and Natural Resources.

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 Plant Science and Landscape Architecture.

Revised Requirements and Catalog Copy

Landscape Design

This minor provides an introduction to landscape architecture, the communication of ideas via presentation drawing, and the methodology of designing the landscape to meet individual and societal needs.

Students in this minor must pass: HORT 3710; LAND 2110, 2210 And three of the following courses: HORT 2430, 2750, 3410, 3420; LAND 2220, 3230W; TURF 3720

At least 12 credits must not duplicate courses used to satisfy the 36 credit requirement for the student's major, or for another minor in the College of Agriculture and Natural Resources. 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 Plant Science and Landscape Architecture.

MOTION PASSED CANR CC 11-12-56 Effective Fall 2012

Ornamental Horticulture

The minor in Ornamental Horticulture provides an introduction to the production, maintenance and use of plants to enhance human environments.

All students are required to complete a minimum 15 credits including HORT 3640 6 credits from among: HORT 2430, 3410, 3420, 3560 3 credits from among: HORT 2520, 2750, 3530, 3660, 3670, 3760 3 credits from among: PLSC 3810, 3820, 3830, 3840

At least 12 credits must not duplicate courses used to satisfy the 36 credit requirement for the student's major, or for another minor in the College of Agriculture and Natural Resources. 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 Plant Science and Landscape Architecture.

MOTION PASSED CANR CC 11-12-57 Effective Fall 2012

Turfgrass Management

The minor in Turfgrass Management provides an introduction to the management and maintenance of turfgrasses used for aesthetics (residential and commercial lawns, parks, institutional grounds), recreation (golf courses, athletic and sports fields), and functional purposes (sod farms, highway medians, inland and coastal erosion control sites, conservation). This minor will also assist those interested in sales, marketing, or any other business aspects of industries associated with turfgrass and ornamental horticulture.

All students are required to complete a minimum of 16 credits including: TURF 1100, 3200/W, 3800; SOIL 2120 And any two of the following: TURF 3100, 3300, 3400, 3720; SOIL 3520

At least 12 credits must not duplicate courses used to satisfy the 36 credit requirement for the student's major, or for another minor in the College of Agriculture and Natural Resources. 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 Plant Science and Landscape Architecture.

MOTION PASSED CANR CC 11-12-58 Effective Fall 2012

C. Natural Resources and the Environment proposed the following:

1 ADD: NRE 3674 Introduction to Agriculture and Environment of China. Effective Fall 2012

Proposed Catalog Copy

NRE 3674 Introduction to Environment and Agriculture of China
Three credits. *Yang*

Basics about the environment and agriculture of China, including geography, climate, agriculture, natural resources, history and culture of China.

MOTION PASSED CANR CC 11-12-59

2. ADD: NRE 3675 Environment and Agriculture of China
Effective Summer 2012

Proposed Catalog Copy

NRE 3675 Environment and Agriculture of China

Three credits. Open to juniors or higher; advanced sophomores (above 50 credits) may be considered. *Yang*

This course introduces students to the environment of China, focusing on the management and sustainability of natural resources and agricultural ecosystems. The course includes a well designed field trip to China, in which students will visit top Chinese universities, receive background lectures by Chinese professors, interact with Chinese students, travel into the heart of the nation, and get direct exposure to the geography, climate, agriculture, natural resources, history and culture of China. Students are required to write and submit daily journals of the field trip and a final report that reflects what are learned from the study tour.

MOTION PASSED CANR CC 11-12-60

3. ADD: NRE 4695 Special Topics: China Study Abroad. Effective Summer 2012

MOTION PASSED CANR CC 11-12-61

4. ADD: NRE 2600 Global Sustainable Natural Resources (Effective Fall 2012)

Proposed Catalog Copy

NRE 2600 Global Sustainable Resources

Three credits. *Bosker*.

Expose students to the challenges and opportunities related to the sustainable management of natural resources, and prepare students for a study-abroad semester. Topics include marine and freshwater systems, forest systems, food production systems and urban development.

MOTION PASSED CANR CC 11-12-62

5. ADD: New concentration: International Studies of Sustainable Natural Resources (Effective Spring 2013)

Proposed new concentration: International Studies of Sustainable Natural Resources

Required:

NRE 2XXX Global Sustainable Resources, 3 cr

Pass two:

NRE 2215 Intro to Water Resources, 3 cr

NRE 2345 Intro to Fish and Wildlife, 3 cr

NRE 2455 Forest Ecology, 3 cr

Pass two:

NRE 3246 Human Dimensions of Natural Resources, 3 cr

NRE 4170 Climate-Human-Ecosystem Interactions, 3 cr

SOCI 3407 Energy, Environment and Society, 3 cr

GEOG 3410 Human Modifications of the Natural Environment, 3 cr

Required:

An Approved Study Abroad Experience 12-15 credits (appropriate language course would count)

MOTION PASSED CANR CC 11-12-63

D. The Department of Nutritional Science proposed the following:

1: Second offering (fall 2012) of a special topics course.

(previously offered fall 2011, C and C approval 4/15/11)

NUSC 4295: Special Topics: Dietary Supplements and Nutraceuticals

Effective Fall 2012. 2 credits

This course will provide students with an understanding of the uses, effectiveness, and safety of nutraceuticals, botanicals, herbals, and dietary supplements

MOTION PASSED CANR CC 11-12-64

2: ADD: NUSC 3171 Husky Nutrition 1, 2 credits (Effective fall 2012)

Proposed Catalog Copy:

3181. Husky Nutrition 1 Two credits. Prerequisite: NUSC 1165. Permission of instructor required.

Experiential learning in pre-schools where students conduct learning activities about reducing sweetened beverage consumption and teach safe handling of food. Supervised field work with community nutrition education and problem-solving. Readings, discussion and reflections. Supervised field work with community nutrition education and problem-solving. Readings, discussion, and reflections.

MOTION PASSED CANR CC 11-12-65

3: ADD: NUSC 3172 Husky Nutrition 2, 2 credits (Effective fall 2012)

Proposed Catalog Copy:

3182. Husky Nutrition 2. Two credits. Prerequisite: NUSC 1165. Consent of Instructor required.

Experiential learning in community settings where students teach school-aged children basic culinary skills and healthy food choices. Applied learning laboratory and supervised field work with community nutrition education and community problem-solving. Readings, discussion and reflections.

MOTION PASSED CANR CC 11-12-66

E. The Department of Allied Health Science proposed the following:

1. REVISE: Admission requirements for the AHS major. Effective Fall 2012.

Current Catalog copy:

The following petition requirements must be met for consideration of a change into the Allied Health Sciences major:

- 1) Be in good academic standing (not on probation or eligible for dismissal).
- 2) A minimum cumulative GPA of 2.2 required to declare a concentration within the AHS major.
- 3) Successful completion of AH 1100 with a grade of C or better.
- 4) Competitive admission with a *minimum* math and science GPA (smGPA) of 2.5.
- 5) Math and Science GPA must include at least one each of the following with no grades *less than* a C (no substitutions).
 - a. CHEM 1122 or 1124Q or 1127Q
 - b. BIOL 1107 or 1108
 - c. MATH 1040Q or 1060Q or 1125Q, or higher; or STAT 1000Q or 1100Q
- 6) Advanced science course work completed (2000-level and above) with grades less than a C may be cause for denial of admission.

Revised Catalog copy:

Admission to the Allied Health Sciences major is competitive. The following requirements must be met for consideration of admission into the Allied Health Sciences major. Admission requirements must be complete at time of application to be considered for admission.

- 1) Be in good academic standing (not on probation or eligible for dismissal).
- 2) Successful completion of AH 1100: *Introduction to Health Professions* with a grade of C or better.
- 3) A Math and Science GPA to include at least one each of the following with no grades *less than* a C (no substitutions).
 - a. CHEM 1122 or 1124Q or 1127Q
 - b. BIOL 1107 or 1108 (preferred BIOL 1107)
 - c. MATH 1040Q or 1060Q or 1125Q, or higher; or STAT 1000Q or 1100Q

Please note: Students admitted to the AHS major typically have a cumulative GPA of 2.7 or higher and a science and math GPA of 2.5 or higher; however, competitive applicants will have greater than a 3.0 cumulative GPA. Advanced course work completed (i.e. science courses 2000-level and above) with grades less than a C may be cause for denial of admission. Students petitioning their junior or senior year may require additional semesters to complete requirements depending on how their coursework meets program requirements and course availability at time of registration.

MOTION PASSED CANR CC 11-12-67

2. REVISE: OSH concentration within the Allied Health Sciences major to incorporate an Environmental Health component to be renamed the Occupational and Environmental Health and Safety (OEHS) concentration. Effective Fall 2012.

Current Catalog copy: (pg. 32)

The **Occupational Safety and Health (OSH)** concentration in Allied Health Sciences prepares students with an interest in acquiring knowledge about occupational safety and health issues or applying marketable skills in a broad range of work environments such as manufacturing, construction, health care, research and development, and academia among many others, should consider this concentration. OSH specialists identify, assist in the prevention and control of health and safety hazards related to work and the work environment, OSH specialists promote health and safety within organizations by developing safer, healthier, and more efficient ways of working. For those students wishing to pursue a career in OSH, the concentration provides a foundation for professional certification in individual disciplines such as occupational safety, industrial hygiene and ergonomics.

Revised Catalog copy:

The **Occupational and Environmental Health and Safety (OEHS)** concentration in Allied Health Sciences prepares students for careers in occupational safety and environmental health by acquiring knowledge to enhance safe work conditions and practices, and minimize disease and injuries. OEHS professionals identify, evaluate, control and communicate health and safety hazards (chemical, physical, biological and ergonomic) related to the workplace, homes, schools, recreational and outdoors environments, and promote health and safety by recommending safer working conditions and lifestyle practices. The concentration also provides a foundation for professional certification in individual OEHS disciplines such as safety, industrial hygiene and ergonomics, and it uniquely positions students for graduate studies in OEHS and related disciplines.

Current Catalog copy: (pg. 32)

Admission – Allied Health Sciences Concentrations

Admission to the Health Sciences, Health Promotion Sciences or Occupational Safety and Health concentrations within the Allied Health Sciences major....

Revised Catalog copy:

Admission – Allied Health Sciences Concentrations

Admission to the Health Sciences, Health Promotion Sciences or **Occupational and Environmental Health and Safety** concentrations within the Allied Health Sciences major.....

Current Catalog copy: (as reflected in the 3/2/12 CANR C&C minutes)

Allied Health Sciences with Occupational Safety and Health concentration: BIOL 1107; CHEM 1124Q or 1127Q; CHEM 1125Q or 1128Q; MATH 1060Q or 1125Q or higher; NRE 1000; PHYS 1010Q or PHYS 1201Q or higher; PSYC 1100; PSYC 1101 or 1103; STAT 1000Q or 1100Q; and two (2) additional science courses approved by the Department of Allied Health Sciences. Science courses used to meet other program requirements

cannot be used to meet this requirement. Courses used to satisfy this requirement must be two or more credits (CHEM 1126Q and/ or CHEM 2241 suggested).

Writing in the major: AH 4221W or 4240W

Revised Catalog copy:

Allied Health Sciences with Occupational and Environmental Health and Safety concentration: AH 1100, ARE 1150 or ECON 1000, BIOL 1107; CHEM 1124Q or 1127Q; CHEM 1125Q or 1128Q; MATH 1060Q or 1125Q or 1131Q or higher; NRE 1000; PHYS 1010Q or PHYS 1201Q or higher; PUBH 1001; STAT 1000Q or 1100Q; and two (2) additional science courses approved by the Department of Allied Health Sciences. Science courses used to meet other program requirements cannot be used to meet this requirement. Courses used to satisfy this requirement must be two or more credits (CHEM 1126Q and/ or CHEM 2241 suggested).

Writing in the major: AH 4221W

Current Catalog copy: (pg. 33)

Group A: A minimum of 18 credits in **Major** course work *within* the CANR (course requirements vary by concentration as indicated below). Students may include a maximum of 6 credits of combined Foreign Study (AH 4093), Independent Study (AH 3099; DIET 3099; DGS 3999; MLSC 4099) and Internship credits (AH 3091) toward the A-3 requirement with advisor and department head approval.

Revised Catalog copy

Group A: A minimum of 18-21 credits (*varies by concentration*) in **Major** course work *within* the CANR (course requirements vary by concentration as indicated below). Students may include a maximum of 6 credits of combined Foreign Study (AH 4093), Independent Study (AH 3099; DIET 3099; DGS 3999; MLSC 4099) and Internship credits (AH 3091) toward the A-3 requirement with advisor and department head approval.

Current catalog copy: (pg. 33)

Group B: A minimum of 18 credits in **Related Cognate** course work selected based on the student's interest, ability, and that speaks to the student's career goals and interests approved by the advisor and department head. Courses used cannot also be used to meet group A requirements. Courses used to meet the Health Sciences concentration related cognate group B must be from the following subject areas: AH major/Health Sciences concentration Group A-3 courses (not used to meet that requirement) BIOL, CHEM, MCB, PHYS, PNB. Other courses may be used with advisor and department head approval.

Revised Catalog copy:

Group B: A minimum of 15-18 credits in **Related Cognate** course work (*varies by concentration*) selected based on the student's interest, ability, and that speaks to the student's career goals and interests approved by the advisor and department head. Courses used cannot also be used to meet group A requirements. Courses used to meet the Health Sciences concentration related cognate group B must be from the following subject areas: AH major/Health Sciences concentration Group A-3 courses (not used to meet that requirement) BIOL, CHEM, MCB, PHYS, PNB. **Courses used to meet the Occupational and Environmental Health and Safety concentration related cognate group B must be from the following: B-1 Two courses (minimum of 6 credits) consistent with focus (refer to plan of study for options); B-2 9 additional credits at the 2000-level or**

higher (refer to plan of study for options). Other courses may be used with advisor and department head approval.

Current Catalog copy: (pg. 33)

Allied Health Sciences with Occupational Safety and Health concentration: Group A: A-1: AH 2001 and either AH 4221W; or AH 4240W and 4241; **A-2** all of the following: AH 3570, 3571 and 3573; **A-3:** Two of the following courses: AH 3175, 3275, 3574. Other courses may be used to meet this requirement pending advisor and department head approval.

Revised Catalog copy:

Allied Health Sciences with Occupational and Environmental Health and Safety concentration: Group A: A-1: AH 2001 and AH 4221W; **A-2** all of the following: AH 2001, AH 3275, AH 3570, AH 3175, and AH 4241~~3571 and 3573~~; **A-3: A minimum of two (minimum of 6 credits)** of the following courses: AH 3571, 3573, ANSC 4341, 4246 ~~3175, 3275, 3574~~. Other courses may be used to meet this requirement pending advisor and department head approval.

MOTION PASSED PENDING DEPARTMENT APPROVALS CANR CC 11-12-68

- E. Other Departmental Business. NONE
- V. Report from Academic Programs: NONE
- VI. Other Business NONE
- VII. The meeting adjourned at 4:02 pm. The next meeting is April 6, 2012