

CAHNR Curricula and Courses Committee
Meeting Minutes Final
November 6, 2015
WBY 209

I. Welcome - Call to order by Chair Mike Darre AT 1:34 PM Members present: Emma Bojinova, Rhonda Brownbill, Mike Darre, Sal Frasca, Pat Jepson, Gary Kazmer, Adam Rabinowitz, Jon Rizzo (For Stephanie Mazarolle) Kristin Schwab , Jason Vokun (forTom Meyer), and Lauren Wilson

II. Old Business: None

III. New Business:

A. The Department of Animal Science proposes the following:

1. **ADD:** ANSC 5683 Graduate Teaching Experience in Animal Science. Effective Spring 2016 (Gary and Lauren)
ANSC 5683. Graduate Teaching Experience in Animal Science.
Mentored experience in developing and presenting lectures and/or laboratory activities for existing ANSC undergraduate courses.

MOTION PASSED CAHNR CC 15-16-34

B. The Department of Agricultural and Resources Economics proposes the following:

1. **REVISE:** General Plan of Study and Concentrations: To correct courses that were mistakenly removed from the 2015-2016 plan of study, remove courses not being offered, and increase the number of flexible credits. Effective Spring 2016. (Adam and Gary)

Current Catalog Copy

Concentrations

Resource Economics majors may concentrate in one or more of the following areas: Marketing and Business Management, Environmental Economics and Policy, and International Development. Majors choosing a concentration are required to complete 18 credits from the list of specified courses for a given concentration. A minimum of nine credits of ARE courses at the 3000-level or above are required for each concentration.

Marketing and Business Management

ARE 3210, 3215, 3221, 3222, 3225, 4217, 4275, 4279; ECON 2411; with approval of advisor up to 3 credits of any 3000-level or above course.

With approval of advisor, additional courses in ARE or in related fields can be used to fulfill the 36-credit requirement for the major with this area of concentration.

Environmental Economics and Policy

ARE 3260, 3434, 3437, 4305, 4438, 4444, 4462, 4464; GEOG 2100; NRE 3245; with approval of advisor up to 3 credits of any 3000-level or above course.

With approval of advisor, additional courses in ARE or in related fields can be used to fulfill the 36-credit requirement for the major with this area of concentration.

International Development

ARE 3260, 3434, 3437, 4279, 4305, 4444, 4464; ANTH 3151, 3325; ECON 2440, 2456, 3421/W, 3473/W; GEOG 2100, 3100; POLS 3402, 3410; SOCI 3701; WGSS 2267, 3216; with approval of advisor up to 3 credits of any 3000-level or above course.

With approval of advisor, additional courses in ARE or in related fields can be used to fulfill the 36-credit requirement for the major with this area of concentration.

Proposed Catalog Copy: Changes Requested for 2015-2016 Plan of Study

Concentrations. Resource Economics majors may concentrate in one or more of the following areas: Marketing and Business Management, Environmental Economics and Policy, and International Development. Majors choosing a concentration are required to complete 18 credits from the list of specified courses for a given concentration. A minimum of nine credits of ARE courses at the 3000-level or above are required for each concentration.

Marketing and Business Management:

ARE 3210, 3215, 3221, 3222, 3225, 3260, 3333, 3434, 4217, 4275, 4279, 4464; ECON 2411; with approval of advisor up to 6 credits of any 3000 level or above course.

With the approval of the advisor, additional courses in ARE or in related fields can be used to fulfill the 36 credit requirements for the major with this area of concentration.

Environmental Economics and Policy:

ARE 3210, 3235, 3260, 3333, 3434, 3436, 3437, 3450, 4217, 4305, 4438, 4444, 4462, 4464; GEOG 2100; NRE 3245; with approval of advisor up to 6 credits of any 3000 level or above course.

With the approval of the advisor, additional courses in ARE or in related fields can be used to fulfill the 36 credit requirements for the major with this area of concentration.

International Development:

ARE 3210, 3215, 3260, 3333, 3434, 3437, 4279, 4305, 4444, 4464; ANTH 3151, 3325; ECON 2440, 2456, 3421/W, 3473/W; GEOG 2100, 3100; POLS 3402, 3406, 3410; SOCI 3701; WGSS 3216, 2267; with approval of advisor up to 6 credits of any 3000 level or above course.

With the approval of the advisor, additional courses in ARE or in related fields can be used to fulfill the 36 credit requirements for the major with this area of concentration.

MOTION PASSED CAHNR CC 15-16-35

2. REVISE: Competency Requirements: Add an additional competency requirement of 9 credits of ARE at the 2000-level or above. Effective Spring 2016. (Adam and Sal)

Current Catalog Copy

Competency Requirements

All Resource Economics majors must pass [ARE 1150](#) or [ECON 1200](#) or [ECON 1201](#); and [ARE 3150](#). Students must also pass either [ARE 3261W](#) or [3440W](#) to fulfill their writing in the major requirement. The advanced information literacy requirement is fulfilled with either [ARE 3261W](#) or [3440W](#). There are no advanced requirements for computer technology.

Proposed Catalog Copy: Changes Requested for 2016-2017 Plan of Study

Competency Requirements

All Resource Economics majors must pass [ARE 1150](#) or [ECON 1200](#) or [ECON 1201](#); [ARE 3150](#); and a minimum of 9 additional credits of ARE courses at the 2000-level or above. Students must also pass either [ARE 3261W](#) or [3440W](#) to fulfill their writing in the major requirement. The advanced information literacy requirement is fulfilled with either [ARE 3261W](#) or [3440W](#). There are no advanced requirements for computer technology. The courses used to satisfy the 9 additional credit ARE minimum can also be used to fulfill the 36 credit requirement and the concentrations.

MOTION PASSED CAHNR CC 15-16-36

3. REVISE: Change ARE 3150 to ARE 2150. Effective Spring 2016
4. REVISE: Change ARE 3260 to ARE 2260 Effective Spring 2016
5. REVISE: Change ARE 3434 to ARE 2434 Effective Spring 2016
6. REVISE: Change ARE 3210 to ARE 2210 Effective Spring 2016
7. REVISE: Change ARE 3261W to ARE 2261W Effective Spring 2016
8. REVISE: Change ARE 3440W to ARE 2440W Effective Spring 2016

NOTE: There was discussion as to the intention of renumbering from 3000 level to 2000 level courses since anyone that meets the prerequisites can take the 3000 course. The department is hoping to attract more freshman and sophomores into the major.

It was moved by Rhonda and Seconded by Sal to table the discussion of items 3-8 above until the full CAR forms can be viewed by all the members.

MOTION TO TABLE PASSED: CAHNR CC 15-16-37

C. The Department of Environmental Sciences proposes the following:

1. ADD: ENVS 2000 Integrating Humans and the Environment. Effective Fall 2016
Proposed Title and Complete Catalog Copy: (Jason and Gary)
ENVS 2000 Integrating Humans and the Environment. Three credits. Open to Environmental Sciences majors only, sophomores or higher. Recommended preparation: NRE 1000 or similar. This course is designed for students who have had a foundation in the basic concepts of environmental sciences. Exploration of critical environmental issues from a science-based perspective, including climate change, energy resilience, ecosystem services, and sustainability. The course will address the challenges, tradeoffs, and potential solutions to problems related to human modification of the environment, and do so from an interdisciplinary perspective.

MOTION PASSED CAHNR CC 15-16-38 (One Nay vote recorded)

2. REVISE: Change the Major: Add additional courses to the curriculum. Effective Fall 2016 (Jason and Lauren)

Existing Catalog Description of Major

The major in Environmental Sciences is based in the physical and biological sciences, but also includes course work in selected areas of the social sciences. The major leads to a Bachelor of Science degree, and may be adopted by students in either the College of Agriculture, Health and Natural Resources or the College of Liberal Arts and Sciences. This curriculum offers a

comprehensive approach to the study of environmental problems, including not only a rigorous scientific background, but also detailed analyses of the social and economic implications of environmental issues. The complexity and interdisciplinary nature of environmental science is reflected in the core requirements of the major. These courses, assembled from several different academic departments representing two colleges, provide both breadth and depth, preparing students for careers that deal with environmental issues, and for graduate study in environmental sciences and related fields.

Required courses in Basic (Natural) Sciences

- [BIOL 1107](#) and [1108](#) or [1110](#);
- [CHEM 1124Q](#), [1125Q](#), [1126Q](#) or [1127Q](#), [1128Q](#);
- [MATH 1131Q](#), [1132Q](#);
- [PHYS 1201Q](#), [1202Q](#), or [1401Q](#), [1402Q](#);
- [STAT 1000Q](#) or [1100Q](#) or [3025Q](#);
- [NRE 1000](#).

[ARE 1150](#); [ECON 1200](#) or [1201](#); [GEOG 2300](#); [GSCI 1050](#); and [MARN 1002](#) are prerequisites for several upper division course concentration options. It is the student's responsibility to ensure that all pre-requisites in the catalog for concentration courses have been satisfied.

Required Sophomore Seminar Course

A 2000-level environmental sciences sophomore seminar course as approved by the advisor.

Required Capstone Course

[NRE 4000W](#) (3 credits). Completion of NRE 4000W satisfies the writing in the major and information literacy exit requirements.

Required Internship or Research Experience

1-6 credits of internship and/or research experience. Internship and/or research experience must be approved by the student's advisor.

Area of Concentration

All students majoring in Environmental Sciences must declare and fulfill the requirements of a concentration in a discipline associated with the program before graduation. Approved concentrations are listed below:

Sustainable Systems Concentration

Students must complete at least two courses from each of the following Knowledge Competencies. The same course cannot be used to fulfill more than one knowledge competency.

Resource Management

[EEB 2208](#); [GEOG 3340](#); [MARN 3030](#); [NRE 2010](#), [2215](#), [2325](#), [2345](#), [3105](#), [3125](#), [3155](#), [3305](#), [3335](#), [3345/W](#), [3500](#), [3535](#), [4335](#), [4575](#).

Ecological Systems

[EEB 2244/W](#), [3247](#), [4230W](#); [EEB 3230/MARN 3014](#); [NRE 2455](#), [3205](#), [4340](#).

Students must complete at least one course from each of the following Knowledge Competencies.

Built Systems

[AH 3175](#); [HORT 3765](#); [LAND 3230W](#); [NRE 3265](#).

Governance and Policy

[AH 3174](#); [ARE 3235](#), [3434](#), [3437](#), [4438](#), [4462](#); [ECON/MAST 2467](#); [GEOG 3320W](#); [MAST/POLS 3832](#); [NRE 3201](#), [3245](#), [3246](#); [POLS 3412](#); [SOCI 3407/W](#).

Ethics, Values, and Culture

[ANTH 3339](#); [ENGL 3240](#), [3715](#); [GEOG 3410](#); [HIST 3540](#), [3542](#); [JOUR 3046](#); [PHIL 3216](#); [SOCI 2701](#), [2705](#), [2709W](#), [3407/W](#).

Economics and Business

[ARE 3235](#), [4305](#), [4438](#), [4444](#), [4462](#), [4464](#); [ECON/MAST 2467](#); [ECON 3466](#), [3473](#).

Global Change Concentration

Students must complete at least two courses from each of the following Knowledge Competencies. The same course cannot be used to fulfill more than one knowledge competency.

Climate Change and its Impacts

[GEOG 3400](#), [4300](#); [GSCI 3010](#); [MARN 3000](#); [NRE 3115](#), [3146](#), [4170](#).

Land and Ocean Use and its Impacts

[EEB 2208](#); [GEOG 3310](#), [3410](#); [GSCI 3020](#); [GSCI/MARN 3230](#); [HORT 3765](#); [MARN 3001](#), [3030](#), [4066](#); [NRE 2215](#), [2325](#), [2345](#), [3105](#), [3115](#), [3155](#), [4340](#); [NRE 4135/GSCI 4735](#).

Natural Science

[CHEM 4370](#), [4371](#); [EEB 2244/W](#), [2245/W](#), [3247](#); [EEB 3230/MARN 3014](#); [EEB/GSCI 4120](#); [GEOG 2300](#); [MARN 2002](#), [2060](#), [3003Q](#), [4030W](#), [4060](#); [NRE 2455](#), [3125](#), [3145](#), [3205](#); [SOIL 2120](#), [3410](#).

Students must complete at least one course from each of the following Knowledge Competencies.

Methods

[CE 2251](#); [CE/ENVE 3530/GSCI 3710](#); [EEB 4230W](#); [GEOG 3300](#), [3500Q](#); [GEOG/GSCI 4230](#); [GEOG/MARN 3505](#); [MARN 3003Q](#); [NRE 2000](#), [2010](#), [3305](#), [3345/W](#), [3535](#), [4335](#), [4475](#), [4535](#), [4544](#), [4545](#), [4575](#), [4665](#); [PHYS 2400](#); [STAT 2215Q](#), [3025Q](#).

Governance and Policy

[AH 3174](#); [ARE 3235](#), [3434](#), [3437](#), [4438](#), [4462](#); [ECON/MAST 2467](#); [EVST/POLS 3412](#); [GEOG 3320W](#); [MAST/POLS 3832](#); [NRE 3201](#), [3245](#), [3246](#); [SOCI 3407/W](#).

Human Health Concentration

Students must pass all of the following: [AH 3021](#), [3175](#), [3275](#); [ANSC 4341](#); [MCB 2610](#).

Students must pass two of the following; totaling 6 or more credits: [ANSC 4642](#); [MCB 2400](#), [3010](#), [3011](#), [3201](#), [3633](#), [4211](#); [PVS 2100](#).

Students must pass one of the following: [AH 3570](#), [3571](#), [3573](#), [3574](#); [PVS 4300](#).

Note: A B.S. in Environmental Sciences can also be earned through the College of Liberal Arts and Sciences. For a complete description of the major in that college, refer to the Environmental Sciences description in the [College of Liberal Arts and Sciences](#) section of this *Catalog*.

Proposed Catalog Description of Major

The major in Environmental Sciences is based in the physical and biological sciences, but also includes course work in selected areas of the social sciences. The major leads to a Bachelor of Science degree, and may be adopted by students in either the College of Agriculture, Health and Natural Resources or the College of Liberal Arts and Sciences. This curriculum offers a comprehensive approach to the study of environmental problems, including not only a rigorous scientific background, but also detailed analyses of the social and economic implications of environmental issues. The complexity and interdisciplinary nature of environmental science is reflected in the core requirements of the major. These courses, assembled from several different academic departments representing two colleges, provide both breadth and depth, preparing students for careers that deal with environmental issues, and for graduate study in environmental sciences and related fields.

Required courses in Basic (Natural) Sciences

- [BIOL 1107](#) and [1108](#) or [1110](#);
- [CHEM 1124Q](#), [1125Q](#), [1126Q](#) or [1127Q](#), [1128Q](#);
- [MATH 1131Q](#), [1132Q](#);
- [PHYS 1201Q](#), [1202Q](#), or [1401Q](#), [1402Q](#);
- [STAT 1000Q](#) or [1100Q](#) or [3025Q](#);
- [NRE 1000](#).

[ARE 1150](#); [ECON 1200](#) or [1201](#); [GEOG 2300](#); [GSCI 1050](#); and [MARN 1002](#) are prerequisites for several upper division course concentration options. It is the student's responsibility to ensure that all pre-requisites in the catalog for concentration courses have been satisfied.

Required Sophomore Seminar Course

ENVS 2000 Integrating Humans and the Environment (3 credits)

Required Capstone Course

[NRE 4000W](#) (3 credits). Completion of NRE 4000W satisfies the writing in the major and information literacy exit requirements.

Required Internship or Research Experience

1-6 credits of internship and/or research experience. Internship and/or research experience must be approved by the student's advisor.

Area of Concentration

All students majoring in Environmental Sciences must declare and fulfill the requirements of a concentration in a discipline associated with the program before graduation. Approved concentrations are listed below:

Sustainable Systems Concentration

Students must complete at least two courses from each of the following Knowledge Competencies. The same course cannot be used to fulfill more than one knowledge competency.

Resource Management

[EEB 2208](#); [GEOG 3340](#); [MARN 3030](#); [NRE 2010](#), [2215](#), [2325](#), [2345](#), [3105](#), [3125](#), [3155](#), [3305](#), [3335](#), [3345/W](#), [3500](#), [3535](#), [4335](#), [4575](#).

Ecological Systems

[EEB 2244/W](#), [3247](#), [4230W](#); [EEB 3230/MARN 3014](#); [NRE 2455](#), [3205](#), [4340](#).

Students must complete at least one course from each of the following Knowledge Competencies.

Built Systems

[AH 3175](#); [GEOG 2400](#); [HORT 3765](#); [LAND 3230W](#); [NRE 3265](#).

Governance and Policy

[AH 3174](#); [ARE 3235](#), [3434](#), [3437](#), [4438](#), [4462](#); [ECON/MAST 2467](#); [GEOG 3320W](#); [MAST/POLS 3832](#); [NRE 3201](#), [3245](#), [3246](#); [POLS 3412](#); [SOC 3407/W](#).

Ethics, Values, and Culture

[ANTH 3339](#); [ENGL 3240](#), [3715](#); [GEOG 3410](#); [HIST 3540](#), [3542](#); [JOUR 3046](#); [PHIL 3216](#); [SOC 2701](#), [2705](#), [2709W](#), [3407/W](#).

Economics and Business

[ARE 3235](#), [4305](#), [4438](#), [4444](#), [4462](#), [4464](#); [ECON/MAST 2467](#); [ECON 3466](#), [3473](#).

Global Change Concentration

Students must complete at least two courses from each of the following Knowledge Competencies. The same course cannot be used to fulfill more than one knowledge competency.

Climate Change and its Impacts

[GEOG 3400](#), [4300](#); [GSCI 3010](#); [MARN 3000](#); [NRE 3115](#), [3146](#), [4170](#).

Land and Ocean Use and its Impacts

[EEB 2208](#); [GEOG 3310](#), [3410](#); [GSCI 3020](#); [GSCI/MARN 3230](#); [HORT 3765](#); [MARN 3001](#), [3030](#), [4066](#); [NRE 2215](#), [2325](#), [2345](#), [3105](#), [3115](#), [3155](#), [4340](#); [NRE 4135/GSCI 4735](#).

Natural Science

[CHEM 4370](#), [4371](#); [EEB 2244/W](#), [2245/W](#), [3247](#); [EEB 3230/MARN 3014](#); [EEB/GSCI 4120](#); [GEOG 2300](#); [MARN 2002](#), [2060](#), [3003Q](#), [4030W](#), [4060](#); [NRE 2455](#), [3125](#), [3145](#), [3205](#); [SOIL 2120](#), [3410](#).

Students must complete at least one course from each of the following Knowledge Competencies.

Methods

[CE 2251](#); [CE/ENVE 3530/GSCI 3710](#); [EEB 3266](#); [EEB 4230W](#); [EEB 4262](#); [GEOG 3300](#), [3500Q](#); [GEOG/GSCI 4230](#); [GEOG/MARN 3505](#); [MARN 3003Q](#); [NRE 2000](#), [2010](#), [3305](#), [3345/W](#), [3535](#), [4335](#), [4475](#), [4535](#), [4544](#), [4545](#), [4575](#), [4665](#); [PHYS 2400](#); [STAT 2215Q](#), [3025Q](#).

Governance and Policy

[AH 3174](#); [ARE 3235](#), [3434](#), [3437](#), [4438](#), [4462](#); [ECON/MAST 2467](#); [EVST/POLS 3412](#); [GEOG 3320W](#); [MAST/POLS 3832](#); [NRE 3201](#), [3245](#), [3246](#); [SOC 3407/W](#).

Human Health Concentration

Students must pass all of the following: [AH 3021](#), [3175](#), [3275](#); [ANSC 4341](#); [MCB 2610](#).

Students must pass two of the following; totaling 6 or more credits: [ANSC 4642](#); [MCB 2400](#), [3010](#), [3011](#), [3201](#), [3633](#), [4211](#); [PVS 2100](#).

Students must pass one of the following: [AH 3570](#), [3571](#), [3573](#), [3574](#); [PVS 4300](#).

Note: A B.S. in Environmental Sciences can also be earned through the College of Liberal Arts and Sciences. For a complete description of the major in that college, refer to the Environmental Sciences description in the [College of Liberal Arts and Sciences](#) section of this *Catalog*.

MOTION PASSED CAHNR CC 15-16-39

D. The Department of Plant Science and Landscape Architecture proposes the following:

1. REVISE: HORT 3670 Greenhouse Technology and Operations. Change from 4 to 3 credits and remove the laboratory session. (Kristin and Gary)

Current Title and Catalog Copy:

3670 Greenhouse Technology and Operations. Four credits. Three class periods and one 2 hour laboratory period. Prerequisite: BIOL 1108 or 1110; open to juniors or higher. Recommended preparation: SOIL 2120. Elliott

Introduction to greenhouse systems with emphasis on structures, environmental control, root media, irrigation and fertilization, and pest control, in relation to requirements for plant growth and crop production. Laboratories provide experience in greenhouse operations and crop production.

Proposed Title and Complete Catalog Copy:

3670 Greenhouse Technology & Operations. Three credits. Two class periods. Prerequisite: BIOL 1108 or 1110; open to juniors or higher. Recommended preparation: SOIL 2120. McAvoy

Introduction to greenhouse systems with emphasis on structures, environmental control, root media, irrigation and fertilization, and pest control, in relation to requirements for plant growth and crop production.

MOTION PASSED CAHNR CC 15-16-40

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

1. REVISE: The NRE Curriculum. (Jason and Gary)

Current Catalog Copy:

Natural Resources

This major, offered by the Department of Natural Resources and the Environment, prepares students for careers related to the management of natural resources. Students develop skills in applying modern technology, concepts and principles dealing with sustainable development, environmental protection and resource conservation. In addition to core requirements, all students must complete one or more of the following concentrations: Climate and Water Resources, Environmental Conservation, Fisheries and Wildlife Conservation, Forest Resources, or Geomatics. (For detailed information, please refer to the Natural Resources and the Environment website.)

Competency Requirements

Students successfully completing the courses listed below will have met their General Education information literacy exit requirements for this major. Students are expected to have gained additional computer technology competency in the fields of geographic information systems (GIS) and Global Positioning System (GPS) data collection and processing. Students will gain these competencies by passing [NRE 2000](#). Students passing [NRE 4000W](#) will satisfy the writing competency requirement within the major.

All Natural Resources majors must pass the following core requirements: NRE 1000, 2000, 2010, 4000W, 4094; BIOL 1107 or 1108 or 1110; CHEM 1122 or 1124Q or 1127Q; MATH 1060Q or 1131Q; SOIL 2120 and 2125 or GSCI 1050; PHYS 1201Q or 1401Q; STAT 1100

In addition to the core requirements, all students must complete one or more of the following concentrations:

Climate and Water Resources

- All of the following: NRE 2215, 3125, 3146, 4135
- Three courses from the following: EEB 3247; NRE 3105, 3115, 3145, 3155, 3205, 4535
- Two additional courses from the following: EEB 3247; GSCI 3020; MARN 3000; NRE 3105, 3115, 3145, 3155, 3205, 3245, 3246, 3535, 4165, 4170, 4535, 4575, 4665

Environmental Conservation

- All of the following: ARE 1150 or ECON 1201; COMM 1100; EEB 2244 or 2244W; NRE 1235, 3245, 3246, and 3690
- Three courses from the following: ◦ARE 3434 or 3434 and 3440W, 4438, 4462; COMM 4410W; NRE 4600; POLS 3842; SOCI 3407

Fisheries and Wildlife Conservation

- Students must pass the following courses: EEB 2214, 2244 or 2244W; NRE 2345, 3245, 3246, and 3335 or 4335, 4370
- One course from the following: EEB 3254, 3265, 4200 or 4260 and 4261
- One course from the following: EEB 2208, 3247, NRE 2325, 2455, 3105, 3205, 3345 or 3345W, 4340

International Studies of Sustainable Natural Resources

- One 3 credit NRE course in global sustainable resources approved by the department
- Two of the following: NRE 2215, 2345, 2455
- Two of the following: ◦NRE 3246, 4170; SOCI 3407; GEOG 3410
- 12-15 credits of an approved Education Abroad experience (appropriate language course would count)

Sustainable Forest Resources

- All of the following: NRE 2345, 2415, 2455, 3125, 3500, 3690, 4475
- One course from the following: NRE 4544, 4545, or 4575
- One course from the following: NRE 3246, ARE 3434 or ARE 3434 and 3440W

Geomatics

- All of the following: NRE 4535, 4544, 4545, and 4575
- Two courses from the following: NRE 3535; CE 2410; GEOG 2300, 2500, 2505; MATH 1125Q or higher
- Three courses from the following: CSE 1010 or 1100; NRE 2415, 2455, 3105, 3125, 3155, 3146, 4475, 4665, 4689, 5461, 5555

Proposed Catalog Copy:

Natural Resources

This major, offered by the Department of Natural Resources and the Environment, prepares students for careers related to the management of natural resources. Students develop skills in applying modern technology, concepts and principles dealing with sustainable development, environmental protection and resource conservation. In addition to core requirements, all students must complete one or more of the following concentrations: Environmental Sustainability and Conservation (including the option for a pre-approved Education Abroad experience), Fisheries and Wildlife Conservation, Sustainable Forest Resources, or Water Resources and Climate. (For detailed information, please refer to the [Natural Resources and the Environment website](#))

All Natural Resources majors must pass the following core requirements: NRE 1000, 2000, 2010, 3000, 4000W, 4094; BIOL 1107 or 1108 or 1110; CHEM 1122 or 1124Q or 1127Q; MATH 1060Q or 1131Q; SOIL 2120 and 2125 or GSCI 1050; PHYS 1201Q or 1401Q; STAT 1100Q

Environmental Sustainability and Conservation

- All of the following: ARE 1150 or ECON 1201; NRE 1235, 2600, 3245 or ARE 3434
One course from each of the following four groups (note: the same course cannot be used to fulfill more than one group) or Education Abroad (12 credits or equivalent completed abroad, of courses pre-approved by NRE.)
- Sustainability Concepts (one of the following): ANTH 3339, ENVE 1000, NRE 3265, PLSC 2100, SOCI 2701, 3407/w
- Economics and Social Science (one of the following): ANTH 3339, ARE 3235, 4438, 4444, ECON 3466, 2467, GEOG 3320W, 3340, 3410, PHIL 3216, POLS 3239, 3412, 3847, SOCI 2701, 3407/w
- Natural Resources/Ecologic Science (one of the following): EEB 2244, 3247, 3230/MARN 3014, MARN 3000, NRE 2455, 3105, 3125, 3145, 3146, 3205, 4370, PLSC 2500
- Resource Conservation and Management (one of the following): NRE 3155, 3305, 3335, 4165, 4170, 4335, 4475, 4665.

Fisheries and Wildlife Conservation

- All of the following: EEB 2214, 2244/W, NRE 2345, 3335 or 4335, 3345/W or 4575, 4370
- One of the following: ANSC 1111, 3121, EEB 3254, 3265, 4200, 4215, 4250, 4260 and 4261, NRE 4340, PYSC/EEB 3201, PVS 2100, PVS 4300
- One of the following: EEB 3247, NRE 2455, NRE 3105, NRE 3205

Sustainable Forest Resources

- All of the following: NRE 2345, 2415, 2455, 3125, 3500, 3690, 4475
- One of the following: NRE 3535, 4544, 4545, 4575.

Water Resources and Climate

- All of the following: NRE 2215, 3125, 3145 or 3146
Five additional courses from among the following groups, including at least one from the Hydrologic Science group and at least one from the Biological/Ecological Science group. Note: whichever of NRE 3145 and 3146 is used to fulfill the above requirement cannot be used to also fulfill this requirement.
- Hydrologic Science: ENVE 3120, GEOG 3310, GSCI 3020, MARN 3000, NRE 3155, 4135, 4165, 5115
- Biological/Ecological Science: EEB 3247, 3204, NRE 3105, 3205, 4340
- Atmospheric Science: GEOG 3400, NRE 3115, 3145, 3146, 4170
- Hydrologic Science: ENVE 3120, GEOG 3310, GSCI 3020, MARN 3000, NRE 3155, 4135, 4165, 5115
- Biological/Ecological Science: EEB 3247, 3204, NRE 3105, 3205, 4340
- Policy: ARE 3434, NRE 3245
- Related Skills: AH 3275, NRE 3535, 4544, 4545, 4575

MOTION PASSED CAHNR CC 15-16-41

F. The Department of Kinesiology proposes the following:

1. For discussion by the C&C Committee: Outline of Proposed changes. How should we handle them through C&C?
NOTE: It was discussed by the committee and all agreed that undergraduate (3XXX) courses that are being proposed as graduate courses (new grad course numbers) need to be dropped and then add the new grad courses.

2. REVISE: Athletic Training catalog copy (page 38 in 2015-2016 catalog) (John and Pat)

Current Catalog Copy:

Requirements for a Bachelor of Science degree in Athletic Training include:

BIOL 1107; CHEM 1122 or 1127Q; COMM 1100; NUSC

1165, 4250; PHYS 1010Q or 1201Q; PNB 2264-2265; PSYC 1100; STAT

1000Q or 1100Q; KINS 1160, 2100, 2110, 3100, 3101, 3102, 3103, 3104,

3110, 3111, 3112, 3113, 3114, 3115, 3120, 3122, 3125, 3130, 3140, 3150, 3155W, 3156, 3160,

3165W, 3170, 3177, 3522, 3545, 4510/W.

Proposed Catalog Copy:

Requirements for a Bachelor of Science degree in Athletic Training include:

BIOL 1107; CHEM 1122 or 1127Q; COMM 1100; NUSC

1165, 4250; PHYS 1010Q or 1201Q; PNB 2264-2265; PSYC 1100; STAT

1000Q or 1100Q; KINS 1160 (credits and topics as approved by advisor), 2100, 2110, 3100, 3101, 3102, 3103, 3104,

3110, 3111, 3112, 3113, 3114, 3115 (credits and topics as approved by advisor), 3120, 3122,

3125, 3130, 3140, 3150, 3155W, 3156, 3160, 3165W, 3170, 3177, 3522, 3545, 4510/W.

MOTION PASSED CAHNR CC 15-16-42

3. REVISE: Exercise Science catalog copy (page 38 in 2015-2016 catalog) (John and Pat)

Current Catalog Copy:

Requirements include: BIOL 1107, 1108; CHEM 1127Q,

1128Q; 2241 or 2443; COMM 1100; MATH 1060Q or 1131Q; MCB 2000

or 3010; NUSC 1165; PHYS 1201Q, 1202Q; PNB 2264-2265; PSYC 1100;

STAT 1000Q or 1100Q; KINS 1160, 3099, 3320, 3522, 3525, 3530W, 3545,

4500, 4510W.

Proposed Catalog Copy:

Requirements include: BIOL 1107, 1108; CHEM 1127Q,

1128Q; 2241 or 2443; COMM 1100; MATH 1060Q or 1131Q; MCB 2000

or 3010; NUSC 1165; PHYS 1201Q, 1202Q; PNB 2264-2265; PSYC 1100;

STAT 1000Q or 1100Q; KINS 1160 (credits and topics as approved by advisor), 3099 (credits and topics as approved by advisor), 3320, 3522, 3525, 3530W, 3545,

4500, 4510W.

MOTION PASSED CAHNR CC 15-16-43

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

1. ADD: First offering of NUSC 4295- Special Topics: Cooking Techniques for Specialized Diets. Spring 2016.

MOTION PASSED CAHNR CC 15-16-44

- 2.

- H. The Department of Agriculture and Natural Resources proposes the following:

1. REVISE: Change the prerequisites for AGNR 3316.

Current Catalog Copy:

3316. Introduction to Agricultural Mechanics and Safety

Two credits. One lecture, one 2-hour lab. Prerequisite: Open only to students in the College of Agriculture, Health, and Natural Resources.

Operation, safety, and applications of equipment and mechanical systems used in agricultural enterprises. Field trips may be required. A fee of \$35 is charged for this course.

Revised Catalog Copy:

3316. Introduction to Agricultural Mechanics and Safety

Two credits. One lecture, one 2-hour lab. Prerequisite: Open only to students majoring in Agriculture and Natural Resources, Animal Science, Horticulture, [Natural Resources](#), and Turfgrass & Soil Science.

Operation, safety, and applications of equipment and mechanical systems used in agricultural enterprises. Field trips may be required. A fee of \$35 is charged for this course.

MOTION PASSED CAHNR CC 15-16-45

IV. Report from Academic Programs:

V. Other Business:

VI. Time and Place of next meeting. November 20, 2015, 1:30 pm 209 WBY

VII. Adjourn 3:37 PM