

CAHNR and RHSA Curricula and Courses Committee  
Meeting Minutes **Final**  
**1:30 pm February 2, 2018**  
WBV 209

**I. Welcome - Call to order by Chair Mike Darre at 1:35 pm.**

Members present: CAHRN CC: Mike Darre, Gary Kazmer, Mark Brand, Mazhar Kahn, Rhonda Brownbill, Sara Tremblay, Sandy Bushmich, Lauren Wilson, Emma Bojinova, Jon Rizzo (Guests- Monica van Beusekom, and Jason Vokoun (for Tom Meyer))

RHSA CC: Jillian Ives, Amy Safran, Mark Brand, Emma Bojinova, Jason Vokoun (for Morty Ortega), Sandy Bushmich. (Guests - Karl Guillard)

**II. Old Business:** None

**III. New Business:**

A. Ratcliffe Hicks School of Agriculture Business

1. REVISE: RHSA Ornamental Horticulture and Turfgrass Management Major: Change title to Plant Science and revise concentrations. Effective Fall 2018 (Mark and Karl)

**Current Major and Concentrations:**

**Ornamental Horticulture and Turfgrass Management**

**Ornamental Horticulture Concentration**

SAPL 110 Turfgrass Management	(3 cr)
SAPL 120 Intro to Plant Science	(4 cr)
SAPL 300 Intro to Soil Science	(3 cr)
SAPL 410 Woody Plants: Common Trees, Shrubs and Vines	(3 cr)
SAPL 640 Plant Propagation	(3 cr)
SAPL 810 Plant Pest Control OR	
SAPL 800 Turfgrass Pests and Control	(3 cr)
SAPL 840 Integrated Pest Management	(3 cr)
Total	22 cr

**Turfgrass Management Concentration**

SAPL 110 Turfgrass Management	(3 cr)
SAPL 120 Intro to Plant Science	(4 cr)
SAPL 300 Intro to Soil Science	(3 cr)
SAPL 800 Turfgrass Pest and Control	(3 cr)
SAPL 840 Integrated Pest Management	(3 cr)
SAPL 991 Internship	(3 cr)
Total	19 cr

**Proposed Major and Concentrations**

**Plant Science**

All majors must pass the following:

SAPL 120 Intro to Plant Science	(4 cr)
SAPL 300 Intro to Soil Science	(3 cr)
SAPL 840 Integrated Pest Management	(3 cr)

All majors must also complete one of the following concentrations:

**Ornamental Horticulture Concentration**

SAPL 410 Woody Plants: Common Trees, Shrubs and Vines	(3 cr)
SAPL 550 Urban Plant Systems Construction and Maintenance	(3 cr)
SAPL 640 Plant Propagation	(3 cr)
SAPL 810 Plant Pest Control	(3 cr)

**Turfgrass Management Concentration**

SAPL 110 Turfgrass Management	(3 cr)
SAPL 315 Advanced Turfgrass Management	(3 cr)
SAPL 800 Turfgrass Pest and Control	(3 cr)
SAPL 991 Internship	(3 cr)

**Sustainable Crop Production Concentration**

SAPL 101 Environmental and Sustainable Food Production	(3 cr)
SAPL 500 Principles of Agroecology	(3 cr)
SAPL 620 Vegetable Production	(4 cr)
SAPL 810 Plant Pest Control	(3 cr)
SAPL 991 Internship	(1-3 cr)

MOTION PASSED RHSA CC 17-18-1

2. REVISE: Ornamental Horticulture Concentration: Remove SAPL 110, 120, 300, 800 and 840 and add SAPL 550. Effective Fall 2018 (Mark and Karl)

MOTION PASSED RHSA CC 17-18-2

3. REVISE: Turfgrass Management Concentration: Remove SAPL 120, 300, and 840 and add SAPL 315. Effective Fall 2018 (Mark and Karl)

MOTION PASSED RHSA CC 17-18-3

4. ADD: Sustainable Crop Production Concentration. Effective Fall 2018 (Mark and Karl)

**Sustainable Crop Production Concentration**

SAPL 101 Environmental and Sustainable Food Production	(3 cr)
SAPL 500 Principles of Agroecology	(3 cr)
SAPL 620 Vegetable Production	(4 cr)
SAPL 810 Plant Pest Control	(3 cr)
SAPL 991 Internship	(1-3 cr)

MOTION PASSED RHSA CC 17-18-4

5. REVISE: Catalog description for RHSA to reflect the changes to the major as described above, adding the core course requirements and the new and revised concentrations. Effective Fall 2018 (Mark and Karl)

**Existing UConn Catalog copy:**

Majors

The Ratcliffe Hicks School of Agriculture students major in Ornamental Horticulture and Turfgrass Management or Animal Science. Ornamental Horticulture and Turfgrass Management majors may concentrate in ornamental horticulture or turfgrass management. Graduates pursue careers in golf course management, floriculture, landscape and grounds maintenance, greenhouse and garden center operations, nursery management, interiorscaping, park and land management or public horticulture.

**Proposed UConn Catalog copy:**

Majors

The Ratcliffe Hicks School of Agriculture students major in Plant Science or Animal Science. Plant Science majors may concentrate in ornamental horticulture, turfgrass management or sustainable crop production. Graduates pursue careers in golf course management, sports turf management, floriculture, landscape and grounds maintenance, greenhouse and garden center operations, nursery management, interiorscaping, park and land management, public horticulture or various positions within the entire food crop production chain from field to fork.

MOTION PASSED RHSA CC 17-18-5

B. The Department of Allied Health proposes the following:

1. ADD: DGS 4604 Sequencing Techniques and Data Analysis. Effective Fall 2018. (AH1718-07)(CAR17- 5526) CAHNR CC 17-18-56 (Lauren and Gary)

**Proposed Catalog Copy:**

DGS 4604. Sequencing Techniques and Data Analysis Three credits. Prerequisites: students must earn a "C" or better in DGS 4234 or DGS 4234W, and DGS 4235; open to DGS molecular concentration students only. Practicum experience in nucleic acid sequencing and data analysis.

MOTION PASSED CAHNR CC 17-18-56

2. ADD: DGS 4402 Specimen Preparation, Nucleic Acid Isolation and Assessment Effective Fall 2018. (AH1718-08)(CAR 17-5506) (Lauren and Gary)

**Proposed Catalog Copy:**

DGS 4402. Specimen Preparation, Nucleic Acid Isolation and Assessment Four credits. Prerequisites: students must earn a "C" or better in DGS 4234 or DGS 4234W, and 4235; open to DGS molecular concentration students only. Practicum experience in specimen preparation for molecular testing, nucleic acid isolation, and nucleic acid quality control assessment.

MOTION PASSED CAHNR CC 17-18-57

3. REVISE: The Molecular concentration in the DGS program. Add DGS 4604 and DGS 4402 as a program and graduation requirement and Drop DGS 4501, 4502, and 4514 from the program and graduation requirements. Effective Fall 2018. (AH1718-10 and 11) (Lauren and Gary)

### **Current Catalog Copy**

#### Diagnostic Genetic Sciences Requirements

The course requirements listed below may also be used to satisfy the University's General Education requirements.

Mathematics and Science Courses - CHEM 1124Q and 1125Q or CHEM 1127Q and 1128Q; CHEM 2241 or CHEM 2443; BIOL 1107; MATH 1040Q or 1060Q or 1125Q or above; MCB 2400 or 2410, 2610; STAT 1000Q or 1100Q.

Professional Courses - AH 2001, 3121, 4241; DGS 3222, 3223, 3225, 4224, 4234W, 4235, 4236, 4246, 4248; MLSC 4500.

Cytogenetics Concentration Clinical Courses: DGS 4810, 4820, 4830, 4850 or 4997;

Molecular Concentration Practicum Courses: DGS 4501, 4502, 4503, 4850 or 4997; and one of the following: DGS 4510, 4512, 4513, 4514, 4515.

### **Revised Catalog Copy**

#### Diagnostic Genetic Sciences Requirements

The course requirements listed below may also be used to satisfy the University's General Education requirements.

Mathematics and Science Courses - CHEM 1124Q and 1125Q or CHEM 1127Q and 1128Q; CHEM 2241 or CHEM 2443; BIOL 1107; MATH 1040Q or 1060Q or 1125Q or above; MCB 2400 or 2410, 2610; STAT 1000Q or 1100Q.

Professional Courses - AH 2001, 3121, 4241; DGS 3222, 3223, 3225, 4224, 4234W, 4235, 4236, 4246, 4248; MLSC 4500.

Cytogenetics Concentration Clinical Courses: DGS 4810, 4820, 4830, 4850 or 4997;

Molecular Concentration Practicum Courses: DGS 4402, 4503, 4604, 4850 or 4997; and one of the following: DGS 4510, 4512, 4513, or 4515.

MOTIONS PASSED CAHNR CC 17-18-58&59

5. DROP: DGS 4501 Specimen Processing. Effective Fall 2018 (CAR 17-5527) (Lauren and Jon)

MOTION PASSED CAHNR CC 17-18-60

6. DROP: DGS 4502 Nucleic Acid Isolation. Effective Fall 2018 (CAR 17-5528) (Lauren and Emma)

MOTION PASSED CAHNR CC 17-18-61

7. DROP: DGS 4514 DNA Sequencing courses. Effective Fall 2018. (AH1718-09) (CAR 17-5529) (Lauren and Gary)

MOTION PASSED CAHNR CC 17-18-62

8. REVISE: The Allied Health Sciences/ Public Health and Health Promotion Concentration group A-3 major credit requirement. The new wording allows a student to use a 2-credit course as an A-3 requirement and still meet program requirements. Effective Fall 2018. (AH1718-16) (Lauren and Rhonda)

### **Current catalog copy:**

Public Health and Health Promotion Concentration  
Group A major courses

A-1: AH 4239 and 4240W;

A-2: all of the following: AH 2001, 3005, 3175, 3231, and 4244; and

A-3: minimum of 6 credits (or two additional courses) from the following list of CAHNR course options: AH 3000, 3021, 3101, 3133, 3203, 3234, 3302, 3303, 3320, 3570, 3571, 3574, 4225, 4242, 4243, 4297W, 4501, 4503; DIET 3230; NUSC 2200, 4250. Other courses may be used to meet this requirement pending advisor and department head approval. Courses cannot also be used to meet Group A-2 requirements.

**Revised Catalog copy:**

Public Health and Health Promotion Concentration

Group A major courses

A-1: AH 4239 and 4240W;

A-2: all of the following: AH 2001, 3005, 3175, 3231, and 4244; and

A-3: minimum of 5 credits (or two additional courses) from the following list of CAHNR course options: AH 3000, 3021, 3101, 3133, 3203, 3234, 3302, 3303, 3320, 3570, 3571, 3574, 4225, 4242, 4243, 4297W, 4501, 4503; DIET 3230; NUSC 2200, 4250. Other courses may be used to meet this requirement pending advisor and department head approval. Courses cannot also be used to meet Group A-2 requirements.

MOTION PASSED CAHNR CC 17-18-63

9. REVISE: AH 3025 . Human Physiology in Health and Disease. Add the following: Students who passed PNB 2264 or 2274 or PNB 92501 or equivalent will receive only 2 credits for AH 3025 but 3 credits will be used for calculating the GPA. Effective Spring 2019. (AH1718-17)(CAR 17-5486) (Lauren and Jon)

**Current catalog copy:**

AH 3025. Human Physiology in Health and Disease

Three credits. Prerequisite: BIOL 1107; open to juniors or higher in the following majors: Allied Health Sciences, Diagnostic Genetic Sciences, Environmental Sciences (Human Health concentration only), Exercise Science, Medical Laboratory Sciences, and Nutritional Sciences; others with instructor consent. Students who have passed PNB 2264 or 2265 or 2274 or 2275 or equivalent may take this course for two credits with consent of instructor.

An overview of the structure and function of the human body in health and common pathologic conditions associated with each organ system. Does not satisfy the anatomy and physiology admission requirements for undergraduate or post-baccalaureate health programs that require anatomy and physiology with lab.

**Revised Catalog Copy:**

AH 3025. Human Physiology in Health and Disease

Three credits. Prerequisite: BIOL 1107; open to juniors or higher in the following majors: Allied Health Sciences, Diagnostic Genetic Sciences, Environmental Sciences (Human Health concentration only), Exercise Science, Medical Laboratory Sciences, and Nutritional Sciences; others with instructor consent. Students who passed PNB 2264 or 2274 or PNB 92501 or equivalent will receive only 2 credits for AH 3025 but 3 credits will be used for calculating the GPA.

An overview of the structure and function of the human body in health and common pathologic conditions associated with each organ system. Does not satisfy the anatomy and physiology admission requirements for undergraduate or post-baccalaureate health programs that require anatomy and physiology with lab.

MOTION PASSED CAHNR CC 17-18-64

10. ADD: AH 4288. Instructional Assistant in Allied Health Sciences. Effective Spring 2018. (AH1718-12)(CAR 17-5248) (Lauren and Jon)

**Proposed Catalog Copy:**

AH 4288. Instructional Assistant in Allied Health Sciences. Variable (1-3) credits. Hours by arrangement. Prerequisite: successful completion of the course to be assisting in with a B grade or better; Open only with consent of instructor, advisor and department head. Guidelines, learning agreement, and supporting documentation required. This course may not be used to meet requirements for the Group A or Group B AHS major requirements.

Provides students in the department of Allied Health Sciences experience with course development by assisting a faculty instructor with their course; designed to engage a student in independent inquiry and to provide a meaningful teaching experience on a topic of interest under the guidance and supervision of a faculty from the Allied Health Sciences department.

MOTION PASSED CAHNR CC 17-18-65

C. The Department of Plant Science proposes the following:

1. REVISE: Catalog copy for Sustainable Plant and Soil Systems. Change SPSS 2560W to SPSS 3660W. Effective Fall 2018 (Mark and Gary)

**Current Catalog Copy**

Sustainable Plant and Soil Systems

The Sustainable Plant and Soil Systems major, with concentrations in Environmental Horticulture, Sustainable Agriculture, and Turfgrass Science, focuses on the science and practices associated with sustainable plant production and/or use within managed systems. Courses emphasize practices and concepts related to reducing environmental impact during production and in managed land use systems.

Concentrations focus on the production of ornamental and edible crops in controlled environments, greenhouses, nurseries and on farms; management practices for built landscapes and surfaces used for recreational and sporting activities; and the selection and management of ornamental trees, shrubs, grasses, native species, and plants and soils that perform ecosystem services in recreational, urban, and suburban settings to meet functional and aesthetic requirements. The program emphasizes hands-on learning and developing and applying knowledge to solve contemporary problems in individual and team approaches. Students have the opportunity to gain real-world experience through internships.

All students in this major must complete the following courses: BIOL 1108 or 1110; CHEM 1122 or 1124Q or 1127Q; SPSS 1120, 2120, 2125, 2110W or 2560W, and 4210.

The writing in the major requirement is satisfied by SPSS 2110W or 2560W.

Environmental Horticulture concentration

Students in this concentration must complete the following courses:

- 1.SPSS 3640;
- 2.Two of the following: SPSS 3810, 3820, 3830;
- 3.Two of the following: SPSS 2430, 3410, 3560;

4.Three of the following: SPSS 3540, 3550, 3610, 3660, 3670, 4650;

#### Sustainable Agriculture Concentration

Students in this concentration must complete the following courses:

- 1.SPSS 2100, 2500, 3610, 3620, 3840, 3990;
- 2.Two of the following: SPSS 3810, 3820, 3830

#### Turfgrass Science concentration

Students in this concentration must complete the following courses:

- 1.SPSS 1100, 3150, 3620, 3990;
- 2.Three of the following: SPSS 3800, 3810, 3820, 3830;
- 3.One of the following: SPSS 2430, 3410, 3550.

Students successfully completing these courses will have met their general education exit requirements for information literacy.

### **Revised Catalog Copy**

#### Sustainable Plant and Soil Systems

The Sustainable Plant and Soil Systems major, with concentrations in Environmental Horticulture, Sustainable Agriculture, and Turfgrass Science, focuses on the science and practices associated with sustainable plant production and/or use within managed systems. Courses emphasize practices and concepts related to reducing environmental impact during production and in managed land use systems.

Concentrations focus on the production of ornamental and edible crops in controlled environments, greenhouses, nurseries and on farms; management practices for built landscapes and surfaces used for recreational and sporting activities; and the selection and management of ornamental trees, shrubs, grasses, native species, and plants and soils that perform ecosystem services in recreational, urban, and suburban settings to meet functional and aesthetic requirements. The program emphasizes hands-on learning and developing and applying knowledge to solve contemporary problems in individual and team approaches. Students have the opportunity to gain real-world experience through internships.

All students in this major must complete the following courses: BIOL 1108 or 1110; CHEM 1122 or 1124Q or 1127Q; SPSS 1120, 2120, 2125, 2110W or 3660W, and 4210.

The writing in the major requirement is satisfied by SPSS 2110W or 3660W.

#### Environmental Horticulture concentration

Students in this concentration must complete the following courses:

- 1.SPSS 3640;
- 2.Two of the following: SPSS 3810, 3820, 3830;
- 3.Two of the following: SPSS 2430, 3410, 3560;
- 4.Three of the following: SPSS 3540, 3550, 3610, 3660, 3670, 4650;

#### Sustainable Agriculture Concentration

Students in this concentration must complete the following courses:

- 1.SPSS 2100, 2500, 3610, 3620, 3840, 3990;
- 2.Two of the following: SPSS 3810, 3820, 3830

Turfgrass Science concentration

Students in this concentration must complete the following courses:

- 1.SPSS 1100, 3150, 3620, 3990;
- 2.Three of the following: SPSS 3800, 3810, 3820, 3830;
- 3.One of the following: SPSS 2430, 3410, 3550.

Students successfully completing these courses will have met their general education exit requirements for information literacy.

MOTION PASSED CAHNR CC 17-18-66

D. The Individualized and Interdisciplinary Studies Program proposes the following:

1. REVISE: The International Studies minor. Change the requirements and change its name to Global Studies minor. The intent of the revisions is to focus the minor on global and transnational issues and processes. Effective Fall 2018. (Gary and Lauren)

**Current Catalog Copy**

International Studies Minor

This interdisciplinary minor enables students, regardless of their fields of concentration, to develop a broad understanding of the rapidly changing global environment. Students must complete 15-18 credits of course work, primarily at the 3000 and 4000-level, which focus on global issues and/or countries other than the United States from the 19th century to the present. No more than 3 independent study credits may be counted toward the minor, and only 2 courses (6 credits) taken to earn the minor may be double counted with the courses of the student's major(s).

Students must complete at least 1 course from 3 of the following 4 core areas:

1. International Politics and History (generally, courses in Political Science and/or History)
2. Global Economy (generally, courses in Economics, Business, and/or Agricultural and Resource Economics)
3. Global Society and Culture (generally, courses in Sociology and Anthropology)
4. International Dimensions of the Arts and Humanities (generally, courses in Art History, Literature, and/or Philosophy)

In addition to completing the required course work, International Studies minors must meet 1 of 3 tools and experience requirements:

1. Advanced intermediate competence in a modern language other than English, which may be accomplished through regular course work (i.e., advanced work equivalent to 2 courses at the 3000-level or above with grades of C or better) taken at UConn or in an approved Education Abroad program, or via an examination administered by the Department of Literatures, Cultures, and Languages;
2. Participation in an approved Education Abroad program that includes at least six weeks residence in a country other than the United States;
3. Completion of an international internship (with or without pay) of at least six weeks duration with an organization in another country or an internship with a strong international component in an organization in the United States.

This minor is administered by the Individualized and Interdisciplinary Studies Program. For more information, visit the International Studies minor website or call IISP at (860) 486-3631.

**Revised Catalog Copy**

Global Studies Minor

This minor introduces students to the study of global issues and processes and allows them to explore such themes as: peace, conflict, and security; international economics and



development; natural resources and the environment; global health; and comparative cultures, arts, and identities.

#### Requirements

##### 1. Courses (18 credits):

- One course that serves as an introduction to Global Studies, drawn from the following list:

- o GEOG 2000 Globalization
- o NRE 2600 Global Sustainable Resources
- o POLS 1402 Introduction to International Relations
- o SOCI 1701 Society in Global Perspective
- o WGSS 2124 Gender and Globalization

- Three courses selected from a single theme from the approved courses list. The themes are: peace, conflict, and security; international economics and development; natural resources and the environment; global health; and comparative cultures, arts and identities.

- Two other courses from the approved courses list.

Education abroad courses, special topics courses, and variable topics courses may count towards the minor when these courses focus on global issues, processes, trends, and systems. Three credits of independent study may be included when the independent study is focused on a global theme.

No more than six credits may either be taken in any one department or overlap with the plan of study of any one other major or minor.

##### 2. International Experience Requirement

- Participation in an approved Education Abroad program that includes at least six weeks residence in a country other than the United States.

In exceptional circumstances, and with the approval of the Global Studies Minor Committee, this requirement may also be satisfied by either:

- An approved Education Abroad experience of shorter duration or
- Completion of two semesters of college-level language study in addition to the university requirements. This may be advanced study of a language the student has already begun to learn or more basic study of a different language or
- Completion of an internship for six credits with an organization outside the United States or an internship with a strong international component in an organization in the United States.

Students pursuing this minor should select their program of study in close consultation with a minor advisor. This minor is administered by the Individualized and Interdisciplinary Studies Program with oversight by the Global Studies Minor Committee. For more details, including the approved courses list, see the Global Studies minor website.

MOTION PASSED CAHNR CC 17-18-67

#### E. The Environmental Studies Major proposes the following:

1. REVISE: Environmental Studies Major. Add GEOG 3350 as a course option for the Social Science Core. Effective Fall 2018.(Sarah and Mark)

#### **Current Catalog Copy**

##### Environmental Studies

The Environmental Studies major is an interdisciplinary program designed to provide students with the knowledge, skills, and perspectives needed to understand the interactions between human society and the environment. Understanding the ethical and cultural dimensions of our relationship with the environment, as well as the challenges of protecting it, requires insights from multiple perspectives, including the humanities, the social sciences, and the natural sciences. Core courses in the major ensure familiarity with basic principles from these three

areas. With this shared core of knowledge, majors will focus their studies on an area of special interest, taking electives and related courses that allow greater specialization. Among the many possibilities are environmental sustainability, issues concerning public policy and environmental justice, and the literary and philosophical legacy of human encounters with the non-human world. A capstone course will allow each student to research a distinct perspective on a contemporary environmental issue. A major in Environmental Studies might lead to a career in a variety of fields, including public policy, environmental education, eco-tourism, marketing or consulting, journalism, or advocacy.

The major leads to a Bachelor of Arts degree in the College of Liberal Arts and Sciences (CLAS) or the College of Agriculture, Health 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 four introductory courses:

EVST 1000

NRE 1000, GEOG 2300, GSCI 1050 or GSCI 1051

BIOL 1102 or, for those seeking a more advanced background, BIOL 1108

STATS 1000Q or STATS 1100Q or equivalent

Core Courses (18 credits). All majors must take 2 of the following courses from each core. Students cannot apply more than one course per department to count within a particular core. Additional core courses taken in the same department can be applied to the additional major requirements beyond the core requirements.

#### Humanities Core

PHIL 3216/W; GERM 2400; HIST 3540 or HIST 3542 or HIST 2210; ENGL 3240 or ENGL 3635 or ENGL 3715 or JOUR 3046

#### Social Sciences Core

ARE 3434 or ARE 4462 or ECON 3466; GEOG 2400; NRE 3000; NRE 3245; POLS/EVST 3412; SOCI 2701 or SOCI 2709W

#### Natural Science Core

EEB 2208, GEOG 3400, AH 3175, GSCI 3010; NRE 4170

EVST 4000W: Capstone Research Project (3 credits).

All majors must complete a capstone research project, which fulfills the Writing in the Major and the Information Literacy requirements for the major.

Additional requirements for the major In addition, environmental studies majors in CLAS must take 9 credits of electives at the 2000 level or above, plus an additional 12 credits of related courses, approved by the student's advisor. 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.

Total Credits (2000-level or above) 30, plus 12 credits of related courses.

Other areas of recommended preparation (not required)

Physical Science: CHEM 1122, 1127Q; PHYS 1030Q/1035Q.

Earth Science: GSCI/GEOG 1070; MARN 1002/1003

Economics: ARE 1110, 1150; ECON 1179, 1200 1201.

Note: A B.A. in Environmental Studies 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 Studies description in the College of Liberal Arts and Sciences section of this Catalog.

### **Revised Catalog Copy**

#### **Environmental Studies**

The Environmental Studies major is an interdisciplinary program designed to provide students with the knowledge, skills, and perspectives needed to understand the interactions between human society and the environment. Understanding the ethical and cultural dimensions of our relationship with the environment, as well as the challenges of protecting it, requires insights from multiple perspectives, including the humanities, the social sciences, and the natural sciences. Core courses in the major ensure familiarity with basic principles from these three areas. With this shared core of knowledge, majors will focus their studies on an area of special interest, taking electives and related courses that allow greater specialization. Among the many possibilities are environmental sustainability, issues concerning public policy and environmental justice, and the literary and philosophical legacy of human encounters with the non-human world. A capstone course will allow each student to research a distinct perspective on a contemporary environmental issue. A major in Environmental Studies might lead to a career in a variety of fields, including public policy, environmental education, eco-tourism, marketing or consulting, journalism, or advocacy.

The major leads to a Bachelor of Arts degree in the College of Liberal Arts and Sciences (CLAS) or the College of Agriculture, Health 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 four introductory courses:

EVST 1000

NRE 1000, GEOG 2300, GSCI 1050 or GSCI 1051

BIOL 1102 or, for those seeking a more advanced background, BIOL 1108

STATS 1000Q or STATS 1100Q or equivalent

Core Courses (18 credits). All majors must take 2 of the following courses from each core. Students cannot apply more than one course per department to count within a particular core. Additional core courses taken in the same department can be applied to the additional major requirements beyond the core requirements.

#### **Humanities Core**

PHIL 3216/W; GERM 2400; HIST 3540 or HIST 3542 or HIST 2210; ENGL 3240 or ENGL 3635 or ENGL 3715 or JOUR 3046

#### **Social Sciences Core**

ARE 3434 or ARE 4462 or ECON 3466; GEOG 2400 or GEOG 3350; NRE 3000 or NRE 3245; POLS/EVST 3412; SOCI 2701 or SOCI 2709W

#### Natural Science Core

EEB 2208, GEOG 3400, AH 3175, GSCI 3010; NRE 4170

EVST 4000W: Capstone Research Project (3 credits). All majors must complete a capstone research project, which fulfills the Writing in the Major and the Information Literacy requirements for the major.

#### Additional requirements for the major

In addition, environmental studies majors in CLAS must take 9 credits of electives at the 2000 level or above, plus an additional 12 credits of related courses, approved by the student's advisor. 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.

Total Credits (2000-level or above) 30, plus 12 credits of related courses.

#### Other areas of recommended preparation (not required)

Physical Science: CHEM 1122, 1127Q; PHYS 1030Q/1035Q.

Earth Science: GSCI/GEOG 1070; MARN 1002/1003

Economics: ARE 1110, 1150; ECON 1179, 1200 1201.

Note: A B.A. in Environmental Studies 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 Studies description in the College of Liberal Arts and Sciences section of this Catalog.

MOTION PASSED CAHNR CC 17-18-68

#### F. The Environmental Studies Major proposes the following:

1. ADD: New Minor: Global Environmental Change. Effective Fall 2018. (Jason and Jon)

#### Proposed Catalog Copy:

#### Global Environmental Change

The Global Environmental Change minor provides a comprehensive understanding of earth's interconnected environmental systems and the consequences of those changes to human well-being. Topics include climate change, land and ocean use, governance and policy, and related subjects in natural sciences.

Completion of a minor requires that a student earn a C (2.0) or better in each of the required courses for that minor. A maximum of 3 credits towards the minor may be transfer credits of courses equivalent to University of Connecticut courses.

A maximum of six credits in the minor may be part of the major. Students cannot receive the minor within the same Environmental Sciences degree concentration.

#### Requirements:

Total of at least 15 credits 2000-level or above, including one course from each area A-E. The same course cannot be used to fulfill more than one area.

**A. CLIMATE CHANGE AND ITS IMPACTS**

GEOG 3400, GEOG 4300, GSCI 3010, MARN 3000, NRE 3115, NRE 3146, or NRE 4170

**B. LAND AND OCEAN USE AND ITS IMPACTS**

EEB 2208, GEOG 3310, GEOG 3410, GSCI 3020, GSCI/MARN 3230, MARN 3001, MARN 3030, MARN 4066, NRE 2215, NRE 2345, NRE 3105, NRE 3115, NRE 4135/GSCI 4735, or NRE 4340

**C. NATURAL SCIENCES**

CHEM 4370, CHEM 4371, EEB 2244/W, EEB 2245/W, EEB 3230/MARN 3014, EEB 3247, EEB 4120/GSCI 4120, GEOG 2300, GSCI 4110, GSCI 4210, MARN 2002, MARN 2060, MARN 3003Q, MARN 4030W, MARN 4060, NRE 2455, NRE 3125, NRE 3145, NRE 3205, SPSS 2120, or SPSS 3420

**D. METHODS**

CE 2251, EEB 4230W, GEOG 3500Q, GEOG 3505/MARN 3505, GEOG/GSCI 4230, GSCI 3710/CE 3530/ENVE 3530, MARN 3003Q, NRE 2000, NRE 2010, NRE 3305, NRE 3345/W, NRE 3535, NRE 4135/GSCI 4735, NRE 4335, NRE 4475, NRE 4535, NRE 4544, NRE 4545, NRE 4575, NRE 4665, PHYS 2400, STAT 2215Q, or STAT 3025Q

**E. GOVERNANCE AND POLICY**

AH 3174, ARE 2235, ARE 3434, ARE 3437, ARE 4438, ARE 4462, MAST 2467, GEOG 3320W, MAST/POLS 3832, NRE 3000, NRE 3201, NRE 3245, POLS/EVST 3412, or SOCI 3407/W

The minor is offered jointly by the College of Liberal Arts and Sciences and the College of Agriculture, Health and Natural Resources.

MOTION PASSED CAHNR CC 17-18-69

2. ADD: New Minor: Sustainable Environmental Systems Effective Fall 2018. (Jason and Gary)

**Proposed Catalog Copy**

**Sustainable Environmental Systems**

The Sustainable Environmental Systems minor applies the principles of sustainability science, systems thinking, and the environmental sciences to help society move towards a more sustainable future. Topics include ecological systems, natural resources management, environmental ethics and cultural interactions, as well as selected economics and business perspectives.

Completion of a minor requires that a student earn a C (2.0) or better in each of the required courses for that minor. A maximum of 3 credits towards the minor may be transfer credits of courses equivalent to University of Connecticut courses.

A maximum of six credits in the minor may be part of the major. Students cannot receive the minor within the same Environmental Sciences degree concentration.

**Requirements:**

Total of at least 15 credits 2000-level or above as follows:

I. Core Courses (9 credits).

All minors must take 1 course from areas A, B, and C. Additional core courses in a single category can be applied to the additional minor requirements beyond the core requirements. The same course cannot be used to fulfill more than one area.

A. Resource Management:

EEB 2208, GEOG 3340, MARN 3030, NRE 2010, NRE 2215, NRE 2345, NRE 3105, NRE 3125, NRE 3155, NRE 3305, NRE 3335, NRE 3345/W, NRE 3500, NRE 3535, NRE 4335, or NRE 4575

B. Ecological Systems:

EEB 2244/W, EEB 3247, EEB 4230W, EEB 3230/MARN 3014, NRE 2455, NRE 3205, or NRE 4340

C. Ethics, Values, & Culture:

ANTH 3339, ENGL 3240, ENGL 3715, GEOG 3410, HIST 3540/W, HIST 3542, JOUR 3046, PHIL 3216/W, SOCI 2701, SOCI 2705, SOCI 2709W, or SOCI 3407/W

II. 6 Additional Credits from the following areas: Choose at least 3 credits from two of the three areas D-F. Courses cannot be used to fulfill more than one area.

D. Built Systems:

AH 3175, GEOG 2400, LAND 3230W, or NRE 3265

E. Governance & Policy:

AH 3174, ARE 2235, ARE 3434, ARE 3437, ARE 4438, ARE 4462, MAST 2467, GEOG 3320W, MAST/POLS 3832, NRE 3000, NRE 3201, NRE 3245, POLS/EVST 3412, or SOCI 3407/W

F. Economics & Business:

ARE 2235, ARE 4305, ARE 4438, ARE 4444, ARE 4462, MAST 2467, ECON 3466, or ECON 3473/W

The minor is offered jointly by the College of Liberal Arts and Sciences and the College of Agriculture, Health and Natural Resources.

MOTION PASSED CAHNR CC 17-18-70

G. The Department of Kinesiology proposes the following:

1. REVISE: KINS 2227 Exercise Prescription. Change course to a CA 3 General Education Course. Effective Fall 2018. (Jon and Lauren)

**Current Catalog Copy:**

KINS 2227 Exercise Prescription. Three Credits. Addresses the Frequency, Intensity, Time, and Type or FITT principle of exercise prescription for apparently healthy adults; healthy populations with special considerations such as children, older adults, and women who are pregnant; and special populations with chronic disease and health conditions such as overweight and obesity, and cardiovascular, pulmonary, metabolic, and musculoskeletal disease.

**Revised Catalog Copy:**

KINS 2227 Exercise Prescription. Three Credits. Addresses the Frequency, Intensity, Time, and Type or FITT principle of exercise prescription for apparently healthy adults; healthy populations with special considerations such as children, older adults, and women who are pregnant; and

special populations with chronic disease and health conditions such as overweight and obesity, and cardiovascular, pulmonary, metabolic, and musculoskeletal disease. CA 3

MOTION PASSED with revisions to the CAR to clarify how this meets the CA3 requirements. CAHRN CC 17-18-71

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

1. REVISE: NRE 4735. Introduction to Ground-Water Hydrology. Change in prerequisites. Effective Fall 2018. (CAR 18-6212) (Jason and Jon)

NRE 4735. Introduction to Ground-Water Hydrology  
(Formerly offered as GEOL 4735.) (Also offered as NRE 4135.) Four credits. Three class periods and one 3-hour laboratory for which occasional field trips will be substituted. Prerequisite: GSCI 1050; or GSCI 1051 and 1052; or instructor consent; open to juniors or higher. Robbins  
Basic hydrologic principles with emphasis on ground water flow and quality, geologic relationships, quantitative analysis and field methods.

Revised Catalog Copy:

NRE 4735. Introduction to Ground-Water Hydrology  
(Formerly offered as GEOL 4735.) (Also offered as NRE 4135.) Four credits. Three class periods and one 3-hour laboratory for which occasional field trips will be substituted. Prerequisite: GSCI 1050 or both GSCI 1052 and one of GSCI 1010 or GSCI 1051 or GSCI 1055 or GSCI 1070 or GEOG 1070.; or instructor consent; open to juniors or higher. Robbins  
Basic hydrologic principles with emphasis on ground water flow and quality, geologic relationships, quantitative analysis and field methods.

MOTION PASSED CAHNR CC 17-18-72

#### **IV. Report from Academic Programs:**

The speaker for CAHNR Commencement will be Dr. Sonny Ramaswamy.

This will be the last year we use the Wilbur Cross Library for the reception.

Academic Program office will searching for an Academic Advisor 1 position.

#### **V. Other Business: None**

#### **VI. Time and Place of next meeting. February 16, 2018 209 WBY ?**

#### **VII. Adjourn 3:17 Pm**