

CANR Curricula and Courses Committee
Meeting Minutes Final
February 20, 2015
1:15 pm WBY 209

I. The meeting was called to order at 1:24 pm by chair Mike Darre – Members present: Rhonda Brownbill, Mike Darre, Sal Frasca, Deepak Joglekar, Patricia Jepson, Gary Kazmer, Tom Meyer, Kristin Schwab, and Lauren Wilson. Guest: Sara Tremblay (ENVS)

II. Old Business:

- A. Tabled from last meeting: CAHNR CC 14-15 75 REVISE: Curriculum revision for the ENVS major. Change from the current nine concentrations to three new concentrations. Effective Fall 2015 Tom moved and Sal seconded to untable the motion. . Motion Carried.
Discussion: ENVS accepted the revisions to the proposed changes made by the CAHNR CC Committee. Gary moved and Kristin seconded to approve the revised curriculum revisions for the ENVS major.

Existing Catalog Description of Major

The major in Environmental Science 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 science and related fields.

- **Required courses in Basic Science**
 - [ARE 1150](#);
 - [BIOL 1107](#), [1108](#) or [1110](#);
 - [CHEM 1124Q](#), [1125Q](#), [1126Q](#) or [1127Q](#), [1128Q](#);
 - [MATH 1125Q](#), [1126Q](#), [1132Q](#) or [1131Q](#), [1132Q](#);
 - [PHYS 1201Q](#), [1202Q](#), or [1401Q](#), [1402Q](#);
 - [STAT 1000Q](#) or [1100Q](#) or [3025Q](#)
- **Required Courses in Introductory Environmental Science**
 - Select any two from [GEOG 2300](#), [GSCI 1050](#), [MARN 1002](#), [NRE 1000](#)
- **Required Courses numbered 2000-level or above in Environmental Science**
 - [AH 3175](#), [EEB 2244/W](#), [GSCI 3020](#) , [MARN 3000](#), [NRE 3145](#)
- **Capstone course**
 - [NRE 4000W](#)
- **General Education competency requirements**
 - Completion of [NRE 4000W](#) will satisfy the writing in the major and information literacy requirements. Completion of [STAT 1000Q](#) or [1100Q](#) or [3025Q](#) and [NRE 4000W](#) will satisfy the computer literacy requirement.
- **Concentration requirements**
 - All students majoring in Environmental Science must also fulfill the requirements of a concentration in a discipline associated with the program before graduation. Approved concentrations are listed below.

Concentration requirements

Environmental Health

Students must pass all of the following: [AH 3021](#) or [3133](#), [AH 3275](#), and [ANSC 4341](#).

Students must pass two of the following: [MCB 3201](#), [2410](#), [2610](#)*, [3011](#), [4211](#), [3633](#).*

* *At least one of these laboratory courses must be taken.*

Students must pass one of the following: [AH 3570](#), [3571](#), [3573](#), [3574](#); [ANSC 4642](#); [DGS 3222](#); [NUSC 4236](#); [PVS 2100](#), [4300](#).

Natural Resources

Students must take [NRE 2000](#), [2010](#), and [4094](#) plus two additional NRE courses numbered 3000 and above.

Resource Economics

Students must take 15 credits from the following: [ARE 3260](#), [3434](#), [3436](#), [3437](#), [3450](#), [4438](#), [4444](#), [4462](#), [4464](#), [4999](#) and up to one additional ARE course numbered 3000 – level or above with prior Advisor approval.

Soil Science

Students must pass the following: [SOIL 2120](#), [2125](#), and [3410](#). Must select 2 courses from CE 5090; [NRE 4165](#); [PLSC 3995](#), 5420.

Environmental Science also offers the following concentrations through the College of Liberal Arts and Sciences: Environmental Biology, Environmental Chemistry, Environmental Geography, Environmental Geoscience, Marine Science. For complete requirements, refer to the Environmental Science 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](#), & [BIOL 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

It should be noted that: ARE1150, ECON 1200, or ECON 1201; GEOG 2300; GSCI 1050; MARN 1002 are pre-requisites for several upper division course concentration options. It is your responsibility to ensure that you have satisfied all pre-requisites in the catalog for concentration courses you may be interested in registering for.

Required Sophomore Seminar Course

- ENVS 2000 (1 credit)

Required Capstone

NRE 4000W (3 credits)

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 (The same course cannot be used to fulfill more than one knowledge competency.)

Students must complete at least 2 courses from each of the following Knowledge Competencies.

- **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; EEB 3230/MARN 3014; EEB 3247, 4230W; NRE 2455, 3205, 4340.

Students must complete at least 1 course from each of the following Knowledge Competencies.

- **Built Systems:** AH 3175; HORT 3765; LAND 3230W; NRE 3265.
- **Governance & Policy:** AH 3174; ARE 3235, 3434, 3437, 4438, 4462; ECON 2467/MAST 2467; GEOG 3320W; MAST 3832/POLS 3832; NRE 3201, 3245, 3246; POLS 3412; SOCI 3407/W.
- **Ethics, Values, & Culture:** ANTH 3339; ENGL 3240, 3715; GEOG 3410; HIST 3540, 3542; JOUR 3046; PHIL 3216; SOCI 2701, 2705, 2709/W, 3407/W.
- **Economics & Business:** ARE 3235, 4305, 4438, 4444, 4462, 4464; ECON 2467/MAST 2467; ECON 3466, 3473.

Global Change Concentration (The same course cannot be used to fulfill more than one knowledge competency.)

Students must complete at least 2 courses from each of the following Knowledge Competencies.

- **Climate Change and Its Impacts:** GEOG 3400, 4300; GSCI 3010; MARN 3000; NRE 3115, 3146, 4170.
- **Land and Ocean Use & Its Impacts:** EEB 2208; GEOG 3310, 3410; GSCI 3020; GSCI 3230/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; EEB 3230/MARN 3014; EEB 3247; EEB 4120/GSCI 4120; GEOG 2300; MARN 2002, 2060, 3003Q, 4030W, 4060; NRE 2455, 3125, 3145, 3205; SOIL 2120, 3410.

Students must complete at least 1 course from each of the following Knowledge Competencies.

- **Methods:** EEB 4230W; ENVE 2251; GEOG 3300, 3500Q; GEOG 3505/MARN 3505; GEOG 4230; GSCI 3710, 4230; MARN 3003Q; NRE 2000, 2010, 3252, 3305, 3345/W, 3535, 4335, 4475, 4535, 4544, 4545, 4575, 4665; PHYS 2400; STAT 2215Q, 3025Q.
- **Governance & Policy:** AH 3174; ARE 3235, 3434, 3437, 4438, 4462; ECON 2467/MAST 2467; GEOG 3320W; MAST 3832/POLS 3832; NRE 3201, 3245, 3246; POLS 3412; SOCI 3407/W.

Human Health Concentration

Students must pass all of the following.

- AH 3175
- MCB 2610
- AH 3021
- AH 3275
- ANSC 4341

Students must pass 2 of the following; totaling 6 or more credits.

- MCB 2400, 3010, 3011, 3201, 3633, 4211; ANSC 4642, PVS 2100

Students must pass 1 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 14-157R1

B. The committee reviewed the language for the proposed amended CAHNR by-laws and accepted the language printed in the minutes of the February 6 meeting.

C. The committee also discussed Motion 14-15-70 adding Sara Tremblay as the voting member representing ENVS and EVST. It was proposed that rather than name the representative from any department or interdepartmental major, that the by-laws provide that the department head or program director will appoint that representative. Motion 14-15-70 is thereby rescinded.

D. Electronic CAR form updates- ready to use for ADD, REVISE, and DROP. Still issues? Until further notice we will need to use both the current senate form and the new form we are testing until more information can be gathered.

III. New Business:

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

1. ADD: AH 3000 U.S. Healthcare System and Professional Practice. Effective Fall 2015.
Lauren moved and Sal seconded.

Draft Proposed Catalog copy:

AH 3000. U.S. Healthcare Systems and Professional Practice

Three credits. Prerequisite: Open only to Allied Health Sciences majors juniors and higher; others by consent. Not open to students who have passed NURS 1130 or AH 2000.

Essentials of the U.S. healthcare system, its history to present day structure including the role of the government and Allied Health professional practice within the system. **Patient, ethical and**

legal responsibility; health insurance, financing and reimbursement structures; and delivery systems will be discussed and investigated through case studies.

Discussion: The committee made some suggested changes to the catalog copy for the AHS department to consider. Change "Systems" to "System" in the title. Alter structure of description. Since the department has not officially approved this course, the CAHRN committee conditionally approves the course based on approval by the department.

Response of the department: **Final Approved Proposed Catalog Copy**

AH 3000. U.S. Healthcare System and Professional Practice

Three credits. Prerequisite: Open only to Allied Health Sciences majors juniors and higher; others by consent. Not open to students who have passed NURS 1130 or AH 2000.

Essentials of the U.S. healthcare system, its history to present day structure including the role of the government and delivery systems; patient, ethical and legal responsibility; financing and reimbursement structures; and Allied Health professionals' practice within the system.

MOTION PASSED CAHRN CC 14-15-76

2. DROP: AH 2000 Fundamentals of Allied Health Care to change the course level and title. Effective Fall 2015. Lauren Moved and Sal seconded.

Discussion: The committee conditionally approved the action dependent on departmental approval.

MOTION PASSED CAHRN CC 14-15-77

3. REVISE: AHS major to allow AH 3000 U.S. Healthcare System and Professional Practice to replace AH 2000 as course options for the group A-3 category for the Allied Health Sciences major Standard plan and Public Health and Health Promotion concentration and as a group A-2 option for the Health Sciences concentration. Effective Fall 2015. Lauren moved and Sal seconded.

Current Catalog copy:

Allied Health Sciences (no concentration)

Group A major Courses (no concentration): (A-1) AH 4239 and 4240W; and (A-2) AH 2001; and (A-3) a minimum of 14 credits (or five additional courses) from the following list of CAHRN course options, three of which must be AH-coded: AH 2000, 3005, 3021, 3101, 3121, 3133, 3175, 3203, 3234, 3571, 3574, 4092, 4225, 4242, 4243, 4244, 4297W; DIET 3230; DGS 3222, 3226, 4224, 4234, 4246; MLSC 3130; NUSC 2200, 4236, 4250; PVS 3100, 4300. Other courses may be used to meet this requirement pending advisor and department head approval.

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 CAHRN course options: AH 2000, 3021, 3101, 3133, 3203, 3234, 3571, 4225, 4242, 4243, 4297W; 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.

Health Sciences Concentration

Group A major courses: (A-1) AH 4239 and 4240W; (A-2) AH 2001 plus two of the following: AH 2000, 4242, 4244; and (A-3) minimum of 8 credits (or three additional courses) from the following list of CAHNR course options: AH 3005, 3021, 3101, 3121, 3175, 4092, 4225, 4243, 4297W; DGS 3222, 3226, 4224, 4234, 4246; MLSC 3130; NUSC 4236, 4250; PVS 3100, 4300. Courses cannot also be used to meet Group A-2 requirements. Other courses may be used to meet this requirement pending advisor and department head approval.

Revised Catalog copy:

Allied Health Sciences (no concentration)

Group A major Courses (no concentration): (A-1) AH 4239 and 4240W; and (A-2) AH 2001; and (A-3) a minimum of 14 credits (or five additional courses) from the following list of CAHNR course options, three of which must be AH-coded: AH 2000, 3000, 3005, 3021, 3101, 3121, 3133, 3175, 3203, 3234, 3571, 3574, 4092, 4225, 4242, 4243, 4244, 4297W; DIET 3230; DGS 3222, 3226, 4224, 4234, 4246; MLSC 3130; NUSC 2200, 4236, 4250; PVS 3100, 4300. Other courses may be used to meet this requirement pending advisor and department head approval.

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 2000, 3000, 3021, 3101, 3133, 3203, 3234, 3571, 4225, 4242, 4243, 4297W; 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.

Health Sciences Concentration

Group A major courses: (A-1) AH 4239 and 4240W; (A-2) AH 2001 plus two of the following: AH 2000, 3000, 4242, 4244; and (A-3) minimum of 8 credits (or three additional courses) from the following list of CAHNR course options: AH 3005, 3021, 3101, 3121, 3175, 4092, 4225, 4243, 4297W; DGS 3222, 3226, 4224, 4234, 4246; MLSC 3130; NUSC 4236, 4250; PVS 3100, 4300. Courses cannot also be used to meet Group A-2 requirements. Other courses may be used to meet this requirement pending advisor and department head approval.

Discussion: The committee conditionally approved the action dependent on departmental approval.

MOTION PASSED CAHNR CC 14-15-78

4. Allow AH 3000 U.S. Healthcare Systems and Professional Practice to substitute for AH 2000 wherever it is listed as a requirement for the Allied Health Sciences major. Effective Fall 2015. Lauren moved and Tom Seconded.

Discussion: The committee conditionally approved the action dependent on departmental approval.

MOTION PASSED CAHNR CC 14-15-79

3. ADD: GPAH 5370 Applied Advanced Nutrition. Effective Spring 2016
Lauren moved and Rhonda seconded

Proposed Catalog Copy:

GPAH 5370 Applied Advanced Nutrition

Three credits. Kerstetter

Prerequisites: DIET 4727, 4350, 4360, and 4365 or equivalent. This course is designed to provide the student with advanced nutrition information for the effective management of complex medical and public health problems. The course emphasizes the impact of nutrients and food components on human health. The research regarding the physiological, pathological and metabolic basis for nutrients in health and disease will be emphasized.

Discussion: The committee felt that since this course is the parallel course to DIET 4370, then it should also have the same prerequisites, so they were added to the catalog description.

MOTION PASSED CAHR CC 14-15-80

IV. Report from Academic Programs:

- A. Remove courses that have not been taught in the past three years. See list from registrar and discuss. AHS, NUSC have indicated that they have some in the list to be removed. Will check with departments to determine if others can be removed.

V. Other Business: Gary discussed the adding of language requiring the students to have access to and bring a mobile computing device to class or laboratory in the catalog copy of a course. The Committee agreed that this was an acceptable practice.

VI. Time and Place of next meeting. March 6, 2015. 1:15 pm WBY 209

VII. Adjourn The meeting adjourned at 2:52 pm.