

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES  
CURRICULA AND COURSES COMMITTEE  
MEETING MINUTES  
December 5, 2008

- I.** The meeting was called to order at 2:08 pm by Chair Darre.  
Members present: Marilyn Altobello, Dick Clark, Mike Darre, Cameron Faustman, Sal Frasca, Susan Gregoire, Karl Guillard, Pat Jepson, Gary Kazmer and Morty Ortega.
- II.** The minutes of November 14, 2008 meeting were approved as distributed, with the addition of the committee members present being listed.
- III. Old Business:**  
The NRME courses returned for further clarification of graduate level work have been added to the agenda as items IV-A-1 and 2.
- IV. New Business:**
- A. NRME business: It was moved to approve the following course or curricula changes submitted by NRME:**
- 1. ADD: NRME 5545 Geodesy**  
Proposed New Cat Copy:
- NRME 5545. Geodesy  
First semester. Four credits. Instructor's consent required. Three class periods and one two-hour laboratory period. Fieldwork required.  
Horizontal and vertical geodetic datums, proper integration of spatial observations collected in disparate datums, distortions created by cartographic projections, and proper use of standard cartographic coordinate systems. Integration of observations from opto-mechanical instruments such as total stations with Global Navigation Satellite System observations.
- Motion Passed CANRCC 08-09-70 (Effective Spring 2009)
- 2. REVISE: NRME 5555 GPS Surveying- Change in Title and Cat copy.**
- Current Title and Catalog Copy:**
- NRME 5555 GPS Surveying 3 units  
Theory and practice of global positioning system (GPS) surveying. Includes network design, control, geodetic coordinate systems, field collection of measurements, data processing, and interpretation of results.
- Revised Cat Copy:**
- NRME 5555 Global Navigation Satellite System Surveying 3 units  
Theory and practice of global navigation satellite system (GNSS) positioning with emphasis on the US NAVSTAR Global Positioning System (GPS). Includes GNSS architectures and status, segment architecture and implementation, positioning theory

including multilateration, code positioning, and differenced phase positioning, GNSS error budget, network design, control, geodetic coordinate systems, field collection of measurements, data processing, and interpretation of results. Fieldwork is required.

Motion Passed CANRCC08-09-71 (Effective Spring 2009)

**3. REVISE: Course offerings for the Natural Resources Concentration in Environmental Science major.**

**Current Catalog Copy:**

Natural Resources – Students must take NRME 4000W plus one course from each of the following groups:

Note: NRME 3690 Field Study Internship may be substituted for one of the group requirements.

*Air and Water* – NRME 3105, 3125, 3155, 4135, 4165, 4175

*Forest Resources* – NRME 2415, 3475, 4455

*Remote Sensing/GIS* – NRME 3252, 3535, 4535

*Fish and Wildlife* – NRME 2315, 3335, 3345, 4335

**Revised Catalog Copy:**

Natural Resources – Students must take NRME 2000, 2010, and 4094 plus two additional NRME courses numbered 3000 and above.

Motion Passed CANRCC 08-09-72 (Effective Spring 2009)

**4. REVISE: Requirements for the Environmental Science Degree.**  
Drop PHYS 1230 General Physics Problems from the requirements under part A  
Required courses in Basic Science. .

**Current catalog copy:**

A. Required courses in Basic Science:

- ARE 1150
- BIOL 1107, 1108 or 1110
- CHEM 1124Q, 1125Q, 1126Q or 1127Q, 1128Q
- MATH 1120Q, 1121Q, 1122Q or, 1131Q, 1132Q
- PHYS 1201Q, 1202Q, 1230 or 1401Q, 1402Q
- STAT 1000Q or 1100Q or 3025Q

**Revised Catalog Copy:**

A. Required courses in Basic Science:

- ARE 1150
- BIOL 1107, 1108 or 1110
- CHEM 1124Q, 1125Q, 1126Q or 1127Q, 1128Q

- MATH 1120Q, 1121Q, 1122Q or, 1131Q, 1132Q
- PHYS 1201Q, 1202Q, 1401Q, 1402Q
- STAT 1000Q or 1100Q or 3025Q

Motion Passed CANRCC 08-09-73 (Effective Spring 2009)

Immediately)

Other Business: **B. ARE business: It was moved to approve the following changes to Resource Economics Concentrations:**

1. In the “Marketing and Business Management” Concentration: Add ARE 3222 to Group A; and Add ARE 3221 to Group B.

Motion Passed CANRCC 08-09-74

2. In the “Environmental Economics and Policy” Concentration: Add ARE 4444 to Group A.

Motion Passed CANRCC 08-09-75

3. In the “International Development” Concentration: Add ARE 4444 and ARE 4464 to Group A; and move ARE 4279 from Group A to Group B.

Motion Passed CANRCC 08-09-76

4. REVISE: Catalog copy for Resource Economics Concentrations to reflect the changes approved:

### **Resource Economics Major**

#### **Concentrations in Resource Economics**

Resource Economics majors may concentrate in one of the following areas: Marketing and Business Management, Environmental Economics and Policy, and International Development. Majors choosing a concentration must take at least three courses from Group A and a sufficient number from Group B so that the total number of credits earned from both groups is at least 18.

#### **Marketing and Business Management**

Group A: ARE 3210, 3215, 3222, 3225, 4217

Group B: ARE 3221, 3260, 3434, 3450, 4275, 4279, 4464, 4981, 4993, 4995, 4999; ECON 2411

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**

Group A: ARE 3260, 3434, 4444, 4462, 4464

Group B: ARE 3210, 3235, 3255, 3436, 3437, 3450, 4217, 4438, 4991, 4993, 4995, 4999;

GEOG 2100; NRME 3245.

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**

Group A: ARE 3255, 3260, 3434, 3437, 4444, 4464

Group B: ARE 3210, 3215, 4279, 4981, 4991, 4993, 4995, 4999; ANTH 3151; ECON 2456, 3421 or 3421W, 3473 or 3473W, GEOG 2100, 3100; POLS 3402, 3406, 3410; SOCI 3701; WS 3216, 3267.

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. .

**V. Motion Passed CANRCC 09-09-77 (Effective**

**A. Plant Science moved the following:**

Allow students who have passed HORT 214 or HORT 215 to use these courses towards fulfilling the requirements of the Minor in Landscape Design or the Minor in Ornamental Horticulture as these are content appropriate for the minors.

*Rational:* Although HORT 214 and 215 have been dropped and somewhat replaced by HORT 3410 and 3420, several students have completed the HORT 214 or 215 prior to applying for the minor. HORT 214 was included in the original plan for the Minor in Landscape Design, but the courses were dropped from the offerings of the plant science department in favor of HORT 3410 and 3420. The Minor in Ornamental Horticulture was developed at the time of the transition from 3 digit to 4 digit course numbering, and therefore HORT 214 and 215 were not put on the listing for the minor (as grandfathered courses) and was not listed on the Minor in Landscape design when it was revised to 4 digit course numbers. In retrospect, dropping HORT 214 and 215 had unintended consequences on some students pursuing the minor.

Motion Passed CANR 08-09-78 (Effective immediately)

**VI. Report from Academic Programs.** Dr. Faustman thanked all the committee members for their diligence and dedication to the work of the committee this past semester and wished all a happy holiday season.

**VII. The meeting adjourned at 3:22 pm. Next meeting will be on Friday, February 6, 2008. (Meetings will continue to be held on the first Friday of the month, with the second Friday being held in reserve for unfinished business)**

Respectfully submitted by Michael J. Darre, Chair.