

A regular meeting of the University Curriculum Committee was held on October 27, 2008 at 2:00 p.m.

Members present: Chair Carole Makela, Professors Bradley Goetz, David Gilliland, Patrick Fitzhorn, Walt Jones, John Ridley, Steven Strauss, Howard Ramsdell, and Cathy Cranston.

Absent: Graduate representative Kyle Stone, undergraduate representative Andy Shank, and Alan Lamborn (*ex-officio*).

Guest: Linda Selkirk

Minutes

The minutes of October 20, 2008, were approved.

CURRICULAR REQUESTS

° Course is offered for term specified in odd numbered years.

+Course includes field trips.

NT-O, offered as nontraditional, online course.

The following curricular requests were approved.

New Courses

Effective Date

CS 561/ECE 561 04(3-3-0). Hardware/Software Design of Embedded Systems. S. Prerequisite: CS 270 or CS 470 or ECE 251 or ECE 452. Credit not allowed for both CS 561 and ECE 561.

Spring Semester 2009

Embedded systems design including system level modeling, design space exploration, hardware-software partitioning, high level synthesis.

°**ECE 540 03(3-0-0). Computational Electromagnetics.** S. Prerequisite: ECE 342.

Spring Semester 2009

Computational techniques for practical applications in electromagnetic fields, devices, scattering, propagation, and radiation.

ECE 561/CS 561 04(3-3-0). Hardware/Software Design of Embedded Systems. S. Prerequisite: CS 270 or CS 470 or ECE 251 or ECE 452. Credit not allowed for both ECE 561 and CS 561.

Spring Semester 2009

Embedded systems design including system level modeling, design space exploration, hardware-software partitioning, high level synthesis.

MU 421 02(1-3-0). Orchestral Techniques. S. Prerequisite: MU 252E.

Spring Semester 2009

Orchestral conducting and rehearsal techniques.

PSY 665 03(0-0-3). Applied Psychological Research Design. SS.

Summer Semester 2009

Prerequisite: Admission to the plan C graduate program in Applied I/O Psychology; any graduate applied statistics course. Credit not allowed for both PSY 655C and PSY 665. Offered only through Division of Continuing Education.

Review of scientific method, generation of hypotheses, and design of laboratory and field research studies. (NT-O)

RS 329 01(0-3-0). Rangeland Assessment. SS. Prerequisite: SOCR 240; RS 300; RS 331.

Summer Semester 2009

Five-day intensive field-based course on principles of rangeland ecosystem assessment.

Major Change in Courses

Effective Date

°ANTH 530 03(3-0-0). Humans in Ecosystems, **change to:**

Fall Semester 2010

°**ANTH 530 03(3-0-0). Human-Environment Interactions.** F.
Prerequisite: Nine credits in anthropology.

Paradigms and concepts in ecological anthropology with an emphasis on adaptation and resilience.

CIVE 377/SOCR 377 03(2-2-0). Geographic Information Systems in Agriculture, **change to:**

Fall Semester 2009

SOCR 377 03(2-2-0). Geographic Information Systems in Agriculture.

F. Prerequisite: 3 credits in SOCR or CS. Credit allowed for only one of the following: CIVE 377, SOCR 377, SOCR 577.

Introduction to geographic information systems and global positioning systems with application to agriculture.

CIVE 571 03(3-0-0). Pipe System Engineering and Hydraulics, **change to:**

Spring Semester 2009

CIVE 571 03(3-0-0). Pipe System Engineering and Hydraulics. F, S, SS.

Prerequisite: CIVE 300.

Planning, design and management of water, wastewater, and industrial pipelines. Emphasis on flow and operation of water supply pipelines. (NT-O)

+RS 331 03(2-2-0). Rangeland Ecogeography, **change to:**

Summer Semester 2009

+**RS 331 03(2-2-0). Wildland Plants and Plant Communities.** F.

Prerequisite: BZ 223 or F 210 or NR 220.

Distribution of non-forested wildland plant communities and important plant species in the western United States.

SOCR 377/CIVE 377 03(2-2-0). Geographic Information Systems in Agriculture, **change to:**

Fall Semester 2009

SOCR 377 03(2-2-0). Geographic Information Systems in Agriculture.

F. Prerequisite: 3 credits in SOCR or CS. Credit allowed for only one of the following: CIVE 377, SOCR 377, SOCR 577.

Introduction to geographic information systems and global positioning systems with application to agriculture.

Course Drops

Effective Date

CIVE 377 03(2-2-0). Geographic Information Systems in Agriculture.

Fall Semester 2009

Major Changes in Curricula

**Warner College of Natural Resources
Department of Forest, Rangeland, and Watershed Stewardship
Major in Rangeland Ecology
Restoration Ecology Concentration**

Effective Spring 2009

(The entire program is shown. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
BZ 120	Principles of Plant Biology	4	3A
CHEM 107 ^P	Fundamentals of Chemistry ¹	4	3A
CHEM 108 ^P	Fundamentals of Chemistry Laboratory	1	3A
CHEM 245^P	Fundamentals of Organic Chemistry	4	
CO 150 ^P	College Composition	3	1A
LAND 220^{P/}	Fundamentals of Ecology	3	3A
LIFE 220 ^P			
LIFE 102 ^P	Attributes of Living Systems	4	3A
LIFE 103 ^P	Biology of Organisms Animals and Plants	4	
MATH 141 ^P	Calculus in Management Sciences ¹	3	1B
	Arts and Humanities²	6	3B
	Global and cultural awareness³	3	3E
	Electives	4	
	TOTAL	26	28
SUMMER SESSION			
NR 220^P	Natural Resources Ecology and Measurements	5	
SOPHOMORE			
AREC 202 ^P	Agricultural and Resource Economics ³	3	3C
	OR		
ECON 202 ^P	Principles of Macroeconomics	3	3C
BZ 223 ^P	Plant Identification	3	
FW 200 ^P	Wildlife Conservation	3	
	OR		
NR 300 ^P	Biological Diversity	3	
LIFE 320 ^P	Ecology	3	
NR 220 ^P	Natural Resources Ecology and Measurements¹	5	
RS 300 ^P	Principles of Range Management Rangeland Conservation and Stewardship	3	
RS 331^P	Rangeland Ecogeography	3	
SOCR 240 ^P	Introductory Soil Science	4	
SPCM 200	Public Speaking ⁴	3	2A
STAT 301 ^P	Introduction to Statistical Methods	3	
	OR		
STAT 307 ^P	Introduction to Biostatistics ¹⁻³	3	
	Social/behavioral sciences⁴	3	3C
	Electives	4	
	TOTAL	25	34
JUNIOR			
BSPM 308 ^P	Ecology and Management of Weeds	4	
	<i>Select two from the following:</i>		
BZ 440 ^P	Plant Physiology	3	
SOCR 341 ^P	Soil Ecology	1	
SOCR 350 ^P	Soil Fertility Management	3	
SOCR 440	Pedology	4	
SOCR 442	Forest and Range Soils	3	
SOCR 455 ^P	Soil Microbiology	3	
SOCR 467 ^P	Soil and Environmental Chemistry	3	
SOCR 478 ^P	Environmental Soil Sciences	3	
FW 260^P	Principles of Wildlife Management¹	3	
	<i>Select one from the following:⁴</i>		
JTC 300 ^P	Professional and Technical Communication	3	2B

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
CO 300 ^P	Writing Arguments	3	2B
CO 301B ^P	Writing in the Disciplines-Sciences	3	2B
NR 319 ^P	Geospatial Applications in Natural Resources	4	
	<u>OR</u>		
NR 322	Introduction to Geographic Information Systems	4	
NR 320	Natural Resources History and Policy	3	3D
RS 329 ^P	Rangeland Assessment	1	
RS 331 ^P	Wildland Plants and Plant Communities	3	
RS 332^P	Range Measurements	2	
RS 351 ^P	Range Plant Production and Decomposition	3	4A, 4B
RS 420^P	Grass Taxonomy	3	
RS 452^P	Range Animal Habitat Interactions⁵	2	4B
WR 304	Principles of Watershed Management	3	3A
WR 416^P	Land Use Hydrology	3	
	Arts/humanities⁶	6	3B
	TOTAL	32	
		<u>28-31</u>	
SENIOR			
BZ 450 ^P	Plant Ecology	4	
	<u>OR</u>		
BZ 471 ^P	Stream Biology and Ecology	3	
	<i>Select two from the following:</i>		
F 210 ^P	Forest Ecogeography	3	
F 311 ^P	Forest Ecology	3	
F 324 ^P	Fire Effects and Adaptations	3	
F 324 ^P	Silviculture	3	
F 424 ^P	Wildland Fire Behavior and Management	3	
F 425 ^P	Advanced Wildland Fire Behavior and Management	3	
NR 326 ^P	Forest Vegetation Management	3	
	<i>Select two courses from the following:</i>		
ERHS 446^P	Environmental Toxicology	3	
PHIL 345^P	Environmental Ethics	3	
SOCR 442^P	Forest and Range Soils	3	
SOCR 455^P	Soil Microbiology	3	
SOCR 470^P	Soil Physics	3	
NR 320	Natural Resources History and Policy	3	3D
NR 420 ^P	Integrated Ecosystem Management	4	4C*
RS 400^P	Rangeland Improvements	2	
RS 432 ^P	Rangeland Measurements and Monitoring	2	
RS 452 ^P	Rangeland Herbivore Ecology and Management	3	
RS 471^P	Rangeland Planning and Grazing Management	2	4C
RS 478 ^P	Restoration Ecology	3	4A
SOCR 440	Pedology	4	
WR 418^P	Land Use and Water Quality	3	
	Global and cultural awareness⁷	3	3E
	Electives ⁵	<u>25-9</u>	
	TOTAL	32	
		<u>27-30</u>	

PROGRAM TOTAL = 120 credits

^P This course has at least one prerequisite. Check the Courses of Instruction section of the catalog or <http://catalog.colostate.edu/front/courses-of-instruction.aspx> to see the course prerequisites.

¹ MATH 117, MATH 118, and MATH 124 are considered review courses; credits in these courses may not be used

toward completion of a degree in rangeland ecology, but are enforced prerequisites for CHEM 107, ~~FW 260~~, MATH 141, NR 220, STAT 307.

²Select from the list of courses in category 3B in the AUCC. Only 3 of the 6 credits required for arts and humanities may come from intermediate (L* 200 and L* 201) foreign language courses.

~~²ECON 202 may be substituted for AREC 202.~~

~~³STAT 301 may be substituted for STAT 307.~~

~~⁴Select from the list of courses in category 3C in the All University Core Curriculum (AUCC).~~

~~⁵In order to take this course, students may need to obtain a registration override from the appropriate department.~~

~~⁶Select from the list of courses in category 3B in the AUCC. Only 3 of the 6 credits required for arts and humanities may come from intermediate (L* 200 and L* 201) foreign language courses.~~

~~⁷⁻³Select from the list of courses in category 3E in the AUCC.~~

⁴First-time students entering a college or university on or after July 1, 2008, must take an advanced writing course to fulfill Category 2B of the AUCC.

⁵Select enough elective credits to bring the program total to 120 credits.

*Pending approval by UCC as a 4C course for the major in Rangeland Ecology.

All-University Core Curriculum (AUCC)

Category 4—Depth and Integration

The following courses were approved for inclusion in category 4 of the AUCC for the major in range and forest management concentration and restoration ecology concentration—effective Spring Semester 2009:

NR 420, Integrated Ecosystem Management, Cat. 4C

RS 351, Wildland Ecosystems in a Changing World, Cat. 4B

RS 351, Wildland Ecosystems in a Changing World, was approved, with eight votes in favor and one vote opposed, for inclusion in category 4A of the AUCC for the major in rangeland ecology—range and forest management concentration and restoration ecology concentration—to be effective Spring Semester 2009.

Request to Offer CIVE 571 in Nontraditional Format

A request by the department of Civil and Electrical Engineering to offer CIVE 571, Pipe System Engineering and Hydraulics, as an online course was approved, effective Spring Semester 2009.

Request to Offer PSY 665 in Nontraditional Format Only

A request by the Department of Psychology to offer PSY 665, Applied Psychological Research Design, as an online course only was approved, effective Summer Semester 2009.

The meeting adjourned at 4:20 p.m.

(FC) 11/03/08

Carole Makela, Chair
Tom Hoehn, Secretary