

A regular meeting of the University Curriculum Committee was held on November 10, 2008 at 2:00 p.m.

Members present: Chair Carole Makela, Professors Bradley Goetz, David Gilliland, Patrick Fitzhorn, John Ridley, Steven Strauss, Howard Ramsdell, Cathy Cranston, graduate representative Kyle Stone, and undergraduate representative Andy Shank.

Absent: Walt Jones, and Alan Lamborn (*ex-officio*).

Guest: Linda Selkirk

Minutes

The minutes of November 3, 2008, were approved.

CURRICULAR REQUESTS

°Course offered in odd years.

+Field trips required.

NT-O, offered as nontraditional, online course.

The following curricular requests were approved.

New Courses

Effective Date

AM 370 03(3-0-0). Fashion Trend Analysis and Forecasting. F, S.

Fall Semester 2009

Prerequisite: AM 270.

Fashion trend analysis and forecasting between markets and products; the direction of fashion.

+MECH 536 03(3-0-0). Materials Applications in Renewable Energy. F.

Fall Semester 2009

Prerequisite: MECH 331.

Materials science applied to renewable energy, transmission and storage; study of solar cells, fuel cells, Li-ion batteries and related technologies. Required field trips.

°**MECH 609 03(1-0-2). Experimental Optimization.** SS. Prerequisite: MECH 509.

Summer Semester 2009

Application of design of experiments, response surface and optimization methods to experimental investigations.

NR 693 Var[1-2]. Natural Resources Stewardship Seminar. F.

Fall Semester 2009

Prerequisite: Must be enrolled in the Master of Natural Resources Stewardship (Plan C) program.

Invited speakers will present different perspectives on natural resources.

SOCR 567 04(3-0-1). Environmental Soil Chemistry. S. Prerequisite: CHEM 331 or CHEM 335. Credit not allowed for SOCR 467 and SOCR 567.

Spring Semester 2009

The chemistry of terrestrial environments and the interactions of soil constituents with bacteria, nutrients, and pollutants.

Major Change in Courses

Effective Date

BC 351 04(4-0-0). Principles of Biochemistry, **change to:**

Summer Semester 2009

BC 351 04(4-0-0). Principles of Biochemistry. F, S, SS. Prerequisite: BZ 110 or BZ 120 or LIFE 102; CHEM 245 or CHEM 341 or CHEM 345. For majors in biological sciences, engineering and pre-professional students in the health sciences.

Structure and function of biological molecules; biocatalysis; metabolism and energy transduction; gene expression. (NT-O)

DM 470 02(2-0-0). Latin American Design and Markets, **change to:**

Fall Semester 2009

DM 470A-B 02(1-0-1). International Design and Merchandising. F, S, SS.

Historical, cultural, and business aspects of international design and merchandising in selected countries. A) Apparel Merchandising. Prerequisite: AM101; AM130; DM 120; concurrent registration in DM482A. B) Interior Design. Prerequisite: ART 100; INTD 129; INTD 166; concurrent registration in DM 482B.

Major Changes in Curricula

**Warner College of Natural Resources
 Department of Forest, Rangeland, and Watershed Stewardship
 Major in Rangeland Ecology
 Range and Forest Management 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			
AREC 202	Agricultural and Resource Economics¹	3	3C
BZ 120	Principles of Plant Biology	4	3A
CHEM 107 ^P	Fundamentals of Chemistry ²⁻¹	4	3A
<u>CHEM 108^P</u>	<u>Fundamentals of Chemistry Laboratory</u>	<u>1</u>	<u>3A</u>
CHEM 245^P	Fundamentals of Organic Chemistry	4	
CO 150 ^P	College Composition	3	1A
F 230	Forestry Field Measurements	2	
LAND 220^P	Fundamentals of Ecology²	3	3A
LIFE 220^P			
MATH 141 ^P	Calculus in Management Sciences ²⁻¹	3	1B
	Arts/humanities ³⁻²	6	3B
	<u>Global and cultural awareness³</u>	<u>3</u>	<u>3E</u>
	Electives	<u>23</u>	
	TOTAL	<u>34</u> 27	
SUMMER SESSION			
NR 220^P	Natural Resources Ecology and Measurements²	5	
SOPHOMORE			
BZ 223 ^P	Plant Identification	3	
F 210 ^P	Forest Ecogeography	3	
FW 260^P	Principles of Wildlife Management²	3	

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
RS 300 ^P	Principles of Range Management <u>Rangeland Conservation and Stewardship</u>	3	
<u>LIFE 320^P</u>	<u>Ecology</u>	<u>3</u>	
<u>AREC 202^P</u>	<u>Agricultural and Resource Economics¹</u>	<u>3</u>	<u>3C</u>
	<u>OR</u>		
<u>ECON 202^P</u>	<u>Principles of Microeconomics</u>	<u>3</u>	<u>3C</u>
SOCR 240 ^P	Introductory Soil Science	4	
SPCM 200	Public Speaking	3	2A
<u>STAT 301^P</u>	<u>Introduction to Statistical Methods</u>	<u>3</u>	
	<u>OR</u>		
STAT 307 ^P	Introduction to Biostatistics ^{2,1,4}	3	
WR 304	Principles of Watershed Management	3	3A
<u>NR 220^P</u>	<u>Natural Resources Ecology and Measurements Electives⁵</u>	<u>5</u>	
		<u>3</u>	
	TOTAL	<u>25</u>	<u>33</u>
JUNIOR			
<u>NR 320</u>	<u>Natural Resources History and Policy</u>	<u>3</u>	<u>3D</u>
	<i>Select one of the following:</i>		
<u>JTC 300^P</u>	<u>Professional and Technical Communication</u>	<u>3</u>	<u>2B</u>
<u>CO 301B^P</u>	<u>Writing in the Disciplines—Science</u>	<u>3</u>	<u>2B</u>
<u>CO 300^P</u>	<u>Writing Arguments</u>	<u>3</u>	<u>2B</u>
<u>NR 319^P</u>	<u>Geospatial Applications in Natural Resources</u>	<u>4</u>	
	<u>OR</u>		
<u>NR 322</u>	<u>Introduction to Geographic Information Systems</u>	<u>4</u>	
F 311 ^P	Forest Ecology	3	
<u>F 321^P</u>	<u>Forest Biometry</u>	<u>3</u>	
F 322 ^P	Economics of the Forest Environment	3	
F 325 ^P	Silviculture	3	
NR 367^P	Concepts in Vertebrate Nutrition	3	
<u>WR 304</u>	<u>Principles of Watershed Management</u>	<u>3</u>	<u>3A</u>
<u>RS 329^P</u>	<u>Rangeland Assessment</u>	<u>1</u>	
RS 331 ^P	Rangeland Ecogeography	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 Interactions	2	4B
	Global and cultural awareness⁵	3	3E
	TOTAL	<u>28</u>	<u>32</u>
SENIOR			
<u>ANEQ 472^P</u>	<u>Sheep Systems</u>	<u>3</u>	
	<u>OR</u>		
<u>ANEQ 478^P</u>	<u>Beef Systems</u>	<u>3</u>	
F 321^P	Forest Biometry	3	
NR 320	Natural Resources History and Policy	3	3D
NR 322	Introduction to Geographic Information Systems	4	
NR 420 ^P	Integrated Ecosystem Management	4	<u>4C*</u>
RS 400^P	Rangeland Improvements	2	
<u>RS 432</u>	<u>Rangeland Measurements and Monitoring</u>	<u>2</u>	
<u>RS 452</u>	<u>Rangeland Herbivore Ecology and Management</u>	<u>3</u>	
	<i>Select one from the following:</i>		
<u>BZ 440^P</u>	<u>Plant Physiology</u>	<u>3</u>	
<u>F 324^P</u>	<u>Fire Effects and Adaptations</u>	<u>3</u>	
<u>SOCR 440</u>	<u>Pedology</u>	<u>4</u>	

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
SOCR 442	Forest and Range Soils	<u>3</u>	
SOCR 478^P	Environmental Soil Science	<u>3</u>	

	<i>Select one from the following:</i>		
BSPM 308^P	Ecology and Management of Weeds	<u>4</u>	
BSPM 365^P	Integrated Tree Health Management	<u>4</u>	
F 330^P	Timber harvesting and the Environment	<u>3</u>	
F 421^P	Timber management	<u>5</u>	
F 422^P	Quantitative Methods in Forest Management	<u>3</u>	
F 424^P	Wildland Fire Behavior and Management	<u>3</u>	

RS 478^P	Restoration Ecology	<u>3</u>	
RS 471^P	Rangeland Planning and Grazing Management	2	4C
SOCR 440	Pedology	4	
	Electives ^{6,4}	<u>34-7</u>	
	TOTAL	<u>28</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.

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

²⁻¹ 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 301](#), and STAT 307.

³⁻² Select two courses from the list of courses in category 3B in the All-University Core Curriculum (AUCC). Only three of the six credits required in arts and humanities may come from foreign language courses.

⁴ ~~STAT 301 may be substituted for STAT 307.~~

⁵⁻³ Select from the list of courses in category 3E in the AUCC.

⁶⁻⁴ Enough elective credits must be taken to bring the program total to 120 credits. Forty-two credits must be upper-division (300- and 400-level).

[*Pending approval by UCC as a 4C course for the major in Rangeland Ecology.](#)

Request to Offer BC 351 in a Nontraditional Format

A request by the Department of Biochemistry and Molecular Biology to offer BC 351, Principles of Biochemistry, as an online course was approved, effective Summer Semester 2009.

Policy on Final Examinations

UCC members reviewed the current policy related to final examinations stated in the General Catalog (page 56) for possible revision. After review the committee concluded the policy is sufficient and should not be sent to the Committee for Teaching and Learning for revision.

Post Secondary/Workforce Readiness

Carole Makela presented the *Post Secondary/Workforce Readiness: CAP4Kids: Preschool to Postsecondary Education Alignment Act* (SB 212) from the Colorado Department of Higher Education.

“...The bill requires the state board and CCHE to ‘negotiate a consensus and adopt a description of postsecondary and workforce readiness’ on or before December 15, 2009. This will be developed as a single definition.

The bill specifies that the standards for grades nine through twelve are aligned with **postsecondary and workforce** planning, preparation and readiness assessments adopted by the state board and CCHE. Standards and testing are designed to meet federal law. The anticipated effects include eliminating the current Colorado Student Assessment Program (CSAP) and replacing it with new state content standards applicable to a broad array of subjects and skills....”

“...At CSU, ...members of CAAD, the Provost’s Office, the University Curriculum Committee, and the Committee on Teaching and Learning ...will meet and elicit feedback to address the following questions:...

1. What should students be able to do when they enter the University?....
2. What attitudes and character traits should students possess when they enter the University?....”

Carole asked UCC members to review the document with their colleges and solicit feedback. The committee will develop its response at future UCC meetings in time for the December 12, 2008 deadline. The document, *Post Secondary/Workforce Readiness: CAP4Kids: Preschool to Postsecondary Education Alignment Act*, will be posted on the University Curriculum Committee website for review.

School of Global and Environmental Sustainability

UCC members discussed how the School of Global and Environmental Sustainability is organized under the University Centers, Institutes, and Other Special Units (CIOSU). Questions were raised about the possibility of new subject code for the school and how it will process curricular requests. UCC members requested curricular process be clarified before curricular requests are submitted to the committee.

The meeting adjourned at 4:10 p.m.

(FC) 11/17/08

Carole Makela, Chair
Tom Hoehn, Secretary