

A regular meeting of the University Curriculum Committee was held on February 13, 2009 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, undergraduate representative Russ Pinkston, and Alan Lamborn (*ex-officio*).

Absent: Professor Walt Jones.

Guests: Cynthia Brown, Jeff Bullington, Kathy Pickering, and Linda Selkirk

Minutes

The minutes of February 6, 2009, were approved.

CURRICULAR REQUESTS

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

* Course is offered for term specified in even-numbered years.

NT-O, offered as nontraditional, online course.

The following curricular requests were approved.

New Courses

Effective Date

MECH 407 03(3-0-0). Laser Applications in Mechanical Engineering. F. Fall Semester 2009
Prerequisite: PH 142.

Review of electromagnetic waves; applications of lasers and optics in engineering, e.g. position sensing, flowfield measurement, cutting and welding.

°**MIP 543 03(3-0-0). RNA Biology.** F. Prerequisite: BC 351 or concurrent registration or BC 401 or concurrent registration. Fall Semester 2009

Gene expression and regulation that occurs at the level of RNA (e.g., splicing, stability, export, translation, RNAi, etc.).

VS 628 03(3-0-0). Physiology and Pathophysiology. F. Prerequisite: DVM degree, or BMS 500 and BMS 501. Fall Semester 2009

Overview of the normal physiology and pathophysiology of disease states of mammalian organ systems.

Major Change in Courses

Effective Date

BIOM 532/MECH 532 03(3-0-0). Material Issues in Mechanical Design, Fall Semester 2009
change to:

BIOM 532/MECH 532 03(3-0-0). Material Issues in Mechanical Design. F. Prerequisite: MECH 331. Credit not allowed for both BIOM 532 and MECH 532.

Failure mechanisms from materials viewpoint with emphasis on use in design. Fracture, creep, fatigue and corrosion. (NT-O)

[Approved as a nontraditional-online course.]

*BIOM 570/*MECH 570 03(3-0-0). Bioengineering, **change to:** Spring Semester 2010

BIOM 570/MECH 570 03(3-0-0). Bioengineering. S. Prerequisite: MECH 307; MECH 324. Credit not allowed for both BIOM 570 and MECH 570.

Physiological and medical systems analysis using engineering methods including mechanics, fluid dynamics, control, electronics, and signal processing. (NT-O)

[Approved as a nontraditional-online course.]

BIOM 573/MECH 573 03(3-0-0). Structure and Function of Biomaterials, **change to:** Fall Semester 2009

BIOM 573/MECH 573 03(3-0-0). Structure and Function of Biomaterials. S. Prerequisite: MECH 331. Credit not allowed for both BIOM 573 and MECH 573.

Structure-function relationships of natural biomaterials; application to analysis of biomimetic materials and biomaterials used in medical devices. (NT-O)

[Approved as a nontraditional-online course.]

CIVE 577 03(2-2-0). GIS in Civil and Environmental Engineering, **change to:** Summer Semester 2009

CIVE 577 03(2-2-0). GIS in Civil and Environmental Engineering. S. Prerequisite: CIVE 300; CIVE 322/ENVE 322.

GIS technology for spatial design/analysis; applications in facilities management, urban infrastructure, water resources, environmental engineering. (NT-O)

[Approved as a nontraditional-online course.]

LIFE 212 01(0-3-0). Introductory Cell Biology Laboratory, **change to:** Fall Semester 2009

LIFE 212 02(0-3-1). Introductory Cell Biology Laboratory. F, S. Prerequisite: CHEM 112 or concurrent registration; LIFE 210 or concurrent registration.

Molecular aspects of cellular and subcellular biology and introductory biochemistry laboratory.

MECH 532/BIOM 532 03(3-0-0). Material Issues in Mechanical Design, **change to:** Fall Semester 2009

MECH 532/BIOM 532 03(3-0-0). Material Issues in Mechanical Design. F. Prerequisite: MECH 331. Credit not allowed for both MECH 532 and BIOM 532.

Failure mechanisms from materials viewpoint with emphasis on use in design. Fracture, creep, fatigue and corrosion. (NT-O)

[Approved as a nontraditional-online course.]

*MECH 570/*BIOM 570 03(3-0-0). Bioengineering, **change to:** Spring Semester 2010

MECH 570/BIOM 570 03(3-0-0). Bioengineering. S. Prerequisite: MECH 307; MECH 324. Credit not allowed for both MECH 570 and BIOM 570.

Physiological and medical systems analysis using engineering methods including mechanics, fluid dynamics, control, electronics, and signal processing. (NT-O)

[Approved as a nontraditional-online course.]

MECH 573/BIOM 573 03(3-0-0). Structure and Function of Biomaterials, **change to:** Fall Semester 2009

MECH 573/BIOM 573 03(3-0-0). Structure and Function of Biomaterials. S. Prerequisite: MECH 331. Credit not allowed for both MECH 573 and BIOM 573.

Structure-function relationships of natural biomaterials; application to analysis of biomimetic materials and biomaterials used in medical devices. (NT-O)

[Approved as a nontraditional-online course.]

Major Changes in Curricula

**College of Engineering
 Department of Electrical and Computer Engineering
 Major in Computer Engineering**

Effective Fall 2009

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
SENIOR			
ECE 456 ^P	Computer Networks	4	
	Technical electives ⁶	<u>11</u>	
	TOTAL	33	

PROGRAM TOTAL = 127-129 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.

⁶ Select from departmental list. CS 453 is recommended as one of the electives for students interested in specializing in computer system design.

School of Global Environmental Sustainability (SoGES)

Kathy Pickering, Cynthia Brown, and Jeff Bullington from the School of Global Environmental Sustainability (SoGES) Curriculum Committee (Faculty Advisory Board) met with UCC members to discuss SoGES curricular administration procedures. UCC members requested that sign offs by the appropriate college curriculum committees and their deans' offices become part of the procedures for all SoGES administered interdisciplinary studies programs and new SoGES courses.

UCC discussed a proposal to use a course attribute system endorsed by SoGES. The committee agreed that such a course attribute system was acceptable in principle. Implementation of such a course attribute system depends on prior approval.

Kathy Pickering will finalize and submit the SoGES curricular process for consideration by UCC. When approved, the curricular process will be posted in the UCC minutes and the Curricular Policies and Procedures Handbook.

Publication of the General Catalog

UCC members agreed with the request from the Vice Provost of Academic Affairs to publish the General Catalog through the internet rather than publishing a printed copy annually. Changes to General Catalog content will be updated in a timelier manner than the printed copy. The updated website will be completely searchable and sections of the catalog will be printable on demand. Content in the online General Catalog will be updated as final approvals are acquired.

The meeting adjourned at 4:10 p.m.

(FC) 2/20/09

Carole Makela, Chair
Tom Hoehn, Secretary