A regular meeting of the University Curriculum Committee was held on February 28, 2014, at 2:00 p.m.

Members present: Chair Carole Makela, Professors Bradley Goetz, Paul Mallette, Patrick Fitzhorn, Mike Hogan for Nancy Jianakoplos, Paul Meiman, Steve Strauss, Howard Ramsdell, Michelle Wilde, graduate representative Andrew Bondi, Sam Laffey for undergraduate representative Sam Guinn, and Kathleen Pickering (ex-officio).

Guests: Kelley Brundage, Holly Houston, Carrie Middleton, and Linda Selkirk

Minutes

The minutes of February 14, 2014, were approved.

Experimental Course Report

The Experimental Course report was received.

Consent Agenda

The Consent Agenda was approved.

CURRICULAR REQUESTS

* Course is offered for term specified in even-numbered years.
+Course requires field trips.
NT-O, offered as nontraditional, online course.

The following curricular requests were approved.

New Courses	Effective Date
ANTH 566 03(2-2-0). Field Methods Training in Online Environments. S. Prerequisite: Graduate standing. Collaborative analysis of ethnographic field data collected in online virtual worlds; mixed methods applicable to other built and natural places.	Spring Semester 2015
ESS 298 Var[1-2]. Research. F, S, SS. Prerequisite: Concurrent registration in ESS 221. Directed ecosystem science research.	Spring Semester 2015
MGT 478 03(3-0-0). Global Supply Chain Management. S. Prerequisite: Select two courses from among MGT 375, MGT 376, MGT 377. Principles and best practices for the strategic design and implementation of global supply chains.	Fall Semester 2014
+NRRT 340 03(3-0-0). Principles in Conservation Planning and Mgmt. F. Prerequisite: NRRT 231. Required field trips. Social, economic, legal, and ecological concepts that shape planning and management frameworks within conservation.	Fall Semester 2014
NRRT 440 03(3-0-0). Applications in Environmental Communication. S. Prerequisite: NRRT 262. Application of tools and techniques for communicating to audiences about issues related to conservation, environment and sustainability.	Fall Semester 2014

Major Change to Courses	Effective Date
BUS 669 03(3-0-0). Sustainable Enterprise Funding and Evaluation, **change to:**	Fall Semester 2014
FIN 669 03(3-0-0). Financing, Evaluating Sustainable Enterprise. F. Prerequisite: BUS 601; FIN 601. Credit not allowed for both FIN 669 and BUS 669. Theoretical and applied approaches to the funding and evaluation of enterprises.	
CIVE 322/ENVE 322 03(3-0-0). Basic Hydrology, **change to:**	Fall Semester 2014
CIVE 322 03(3-0-0). Basic Hydrology. F, S. Prerequisite: CBE 331 or CIVE 300 or WR 416; CIVE 202 or STAT 301 or STAT 315. Credit not allowed for both CIVE 322 and ENVE 322. Hydrologic cycle, soil moisture, groundwater, runoff processes, applications in water resources and environmental engineering. (NT-O)	
CIVE 437/ENVE 437 03(3-0-0). Wastewater Treatment Facility Design, **change to:**	Fall Semester 2014
CIVE 437 03(3-0-0). Wastewater Treatment Facility Design. S. CIVE 300; CIVE 438/ENVE 438 or concurrent registration. Credit not allowed for both CIVE 437 and ENVE 437. Design concepts and principles for wastewater treatment systems and unit processes, principles of treatment plant operation.	
CIVE 438/ENVE 438 03(3-0-0). Environmental Engineering Concepts, **change to:**	Fall Semester 2014
CIVE 438 03(3-0-0). Environmental Engineering Concepts. F, S. Prerequisite: CBE 331 or CIVE 300 or MECH 342; CHEM 113. Credit not allowed for both CIVE 438 and ENVE 438. Environmental engineering approaches to designing water supply, wastewater removal, and pollution control systems.	
CO 300 03(3-0-0). Writing Arguments, **change to:**	Fall Semester 2014
CO 300 03(3-0-0). Writing Arguments. F, S, SS. Prerequisite: CO 150 or HONR 193. Reading, analyzing, researching, and writing arguments. (NT-O) [Approved as an online course.]	
ENVE 322/CIVE 322 03(3-0-0). Basic Hydrology, **change to:**	Fall Semester 2014
CIVE 322 03(3-0-0). Basic Hydrology. F, S. Prerequisite: CBE 331 or CIVE 300 or WR 416; CIVE 202 or STAT 301 or STAT 315. Credit not allowed for both CIVE 322 and ENVE 322. Hydrologic cycle, soil moisture, groundwater, runoff processes, applications in water resources and environmental engineering. (NT-O)	
ENVE 437/CIVE 437 03(3-0-0). Wastewater Treatment Facility Design, **change to:**	Fall Semester 2014

CIVE 437 03(3-0-0). Wastewater Treatment Facility Design. S. CIVE 300; CIVE 438/ENVE 438 or concurrent registration. Credit not allowed for both CIVE 437 and ENVE 437.

Design concepts and principles for wastewater treatment systems and unit processes, principles of treatment plant operation.

ENVE 438/CIVE 438 03(3-0-0). Environmental Engineering Concepts, **change to:** Fall Semester 2014

CIVE 438 03(3-0-0). Environmental Engineering Concepts. F, S. Prerequisite: CBE 331 or CIVE 300 or MECH 342; CHEM 113. Credit not allowed for both CIVE 438 and ENVE 438.

Environmental engineering approaches to designing water supply, wastewater removal, and pollution control systems.

ENVE 441 03(2-3-0). Water Quality Analysis and Treatment, **change to:** Fall Semester 2014

CIVE 441 03(2-3-0). Water Quality Analysis and Treatment. S. Prerequisite: CIVE 438/ENVE 438 or concurrent registration or CIVE 440 or concurrent registration. Credit not allowed for both CIVE 441 and ENVE 441.

Physical, chemical and biological methods for the characterization of waters and wastewaters.

FSHN 386 02(0-0-4). Practicum in Food Service Management, **change to:** Fall Semester 2014

FSHN 386A-C. Practicum. Prerequisite: None.

A) Food Service Management 02(0-0-4). F, S, SS. **B)** Gerontology 03(0-0-9). F, S, SS. **C)** School Nutrition 03(0-0-9). F, S.

FSHN 392 01(1-0-0). Dietetic Practice Seminar, **change to:** Fall Semester 2014

FSHN 392 01(0-0-1). Dietetic Practice Seminar. F, S. Prerequisite: B or above in science courses (CHEM 107and CHEM 108, or CHEM 111, CHEM 112, and CHEM 113; LIFE 102, or BZ 110 and BZ 111; BMS 300; BMS 302; FSHN 150; FSHN 300; FSHN 301); 3.000 overall GPA.

Pre-professional skills to prepare students for the pursuit of careers in the field of dietetics.

*MECH 558 03(3-0-0). Combustion, **change to:** Fall Semester 2014

***MECH 558 03(3-0-0). Combustion.** F. Prerequisite: MECH 342.

Combustion processes: explosions, detonations, flame propagation, ignition, generation of pollutants in moving and stationary energy conversion systems. (NT-O)

[Approved as an online course.]

NSCI 698 07(0-0-7). Research Experience in Natural Sciences, **change to:** Summer Semester 2014

NSCI 698 06(0-0-6). Research Experience in Natural Sciences. SS. Prerequisite: Nine credits M.N.S.E. program coursework.

Research experience in biology, chemistry, or physics.

Major Changes to Curricula

College of Agricultural Sciences
Department of Horticulture and Landscape Architecture **Effective Fall 2014**
Major in Horticulture
Horticultural Science Concentration

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

Course		Title	Cr	AUCC
FRESHMAN				
AGRI	192	Orientation to Agricultural Systems	1	
		OR		
AGRI	292[P]	Transfer Seminar	1	
BZ	120	Principles of Plant Biology	4	3A
CHEM	111[P]	General Chemistry I	4	3A
CHEM	112[P]	General Chemistry Laboratory I	1	3A
CHEM	113[P]	General Chemistry II	3	
CHEM	114[P]	General Chemistry Laboratory II	1	
CO	150[P]	College Composition	3	1A
HORT	100	Horticultural Science	4	3A
MATH	126[P]	Analytic Trigonometry[1]	1	1B
		Arts/humanities[2]	6	3B
		Social/behavioral sciences[3]	3	3C
		TOTAL	31	
SOPHOMORE				
BUS	150	Business Computing Concepts and Applications	3	
		OR		
CS	110	Personal Computing	4	
HORT	260[P]	Plant Propagation	4	
PH	121[P]	General Physics I	5	3A
PH	122[P]	General Physics II	5	3A
SPCM	200	Public Speaking	3	
		Global and cultural awareness[4]	3	3E
		Historical perspectives[5]	3	3D
		Advanced writing[6]	3	2
		TOTAL	29-30	
JUNIOR				
		Select one pair of courses from the following:		
CHEM	245[P]	Fundamentals of Organic Chemistry	4	
CHEM	246[P]	Fundamentals of Organic Chemistry Laboratory	1	
		OR		
CHEM	341[P]	Modern Organic Chemistry I	3	
CHEM	343[P]	Modern Organic Chemistry II	3	
CHEM	344[P]	Modern Organic Chemistry Laboratory	2	
~~CHEM~~	~~345[P]~~	~~Organic Chemistry I~~	~~4~~	
~~CHEM~~	~~346[P]~~	~~Organic Chemistry II~~	~~4~~	
MATH	155[P]	Calculus for Biological Scientists I	4	1B
SOCR	240[P]	Introductory Soil Science	4	
SOCR	330[P]	Principles of Genetics	3	
STAT	301[P]	Introduction to Statistical Methods	3	
		Horticulture electives[7]	8	

Course		Title	Cr	AUCC
		Electives[7]	0-3	
		TOTAL	30	
SENIOR				
BC	351[P]	Principles of Biochemistry	4	
BSPM	302	Applied and General Entomology	2	
BSPM	303B[P]	Horticultural Entomology Laboratory	1	
BSPM	361[P]	Elements of Plant Pathology	3	
BZ	440[P]	Plant Physiology	3	
HORT	310	Greenhouse Management	4	4B
		OR		
HORT SOCR	460[P]/ 460[P]	Plant Breeding	3	4B
HORT	454[P]	Horticulture Crop Production and Management	2	4A, 4C
HORT	476[P]	Environmental Plant Stress Physiology	3	
HORT	495	Independent Study	2	
		Horticulture electives[7]	3	
		Electives[7]	3-4	
		TOTAL	29-30	

PROGRAM TOTAL = 120 credits

[P] This course has at least one prerequisite. Check the Courses of Instruction section of the catalog at *http://catalog.colostate.edu/* to see the course prerequisites.
[1] The equivalent to MATH 117, MATH 118, and MATH 125, if needed, may be taken using elective credits..
[2] Select from the list of courses in category 3B in the All-University Core Curriculum (AUCC). Only 3 of the 6 credits required for arts and humanities may come from intermediate (L* 200 and L* 201) foreign language courses.
[3] Select from the list of courses in category 3C in the AUCC.
[4] Select from the list of courses in category 3E in the AUCC.
[5] Select from the list of courses in category 3D in the AUCC.
[6] Select from the list of courses in category 2 in the AUCC.
[7] Students must select at least 13 credits of upper division (300- to 400-level) horticulture elective and/or elective courses to bring the program total of upper division credits to a minimum of 42. Select enough elective credits to bring the program total to 120 credits.

College of Natural Sciences
Department of Mathematics **Effective Fall 2014**
Major in Mathematics
General Mathematics Concentration

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

A minimum grade of C is required in all mathematics, statistics, and computer science courses which are required for graduation.

Course		Title	Cr	AUCC
FRESHMAN				
CO	150[P]	College Composition	3	1A
MATH	160[P]	Calculus for Physical Scientists I	4	1B
MATH	161[P]	Calculus for Physical Scientists II	4	

Course		Title	Cr	AUCC
MATH	192	First Year Seminar in Mathematical Sciences	1	
STAT	192	First Year Seminar in Statistics	1	
		Arts and Humanities[1]	6	3B
		Global and Cultural Awareness[2]	3	3E
		Historical Perspectives[3]	3	3D
		Social and Behavioral Sciences[4]	3	3C
		Elective[5]	2-3	
		TOTAL	30-31	
SOPHOMORE				
MATH	235[P]	Introduction to Mathematical Reasoning	2	
MATH	261[P]	Calculus for Physical Scientists III	4	
MATH	369[P]	Linear Algebra	3	4A
PH	141[P]	Physics for Scientists and Engineers I	5	3A
PH	142[P]	Physics for Scientists and Engineers II	5	3A
STAT	315[P]	Statistics for Engineers and Scientists	3	
		OR		
STAT	303[P]	Introduction to Communication Principles	3	
		Advanced Writing[6]	3	2
		Introductory Programming[7]	4	
		~~Mathematical Sciences Electives[8, 9]~~	~~3~~	
		TOTAL	~~30~~29	
JUNIOR				
MATH	317[P]	Advanced Calculus of One Variable[8, 9, 10]	4	4B
		OR		
MATH	417[P]	Advanced Calculus I[8, 9, 10]	3	4B, 4C
MATH	340[P]	Introduction to Ordinary Differential Equations	4	
		OR		
MATH	345[P]	Differential Equations	4	
		Select one of the following courses:[9]		
MATH	360[P]	Mathematics of Information Security[8]	3	
MATH	366[P]	Introduction to Abstract Algebra[9, 8]	3	
MATH	466[P]	Abstract Algebra I[9]	3	4C
		Biological and Physical sciences[11]	3	3A
		Mathematical Sciences Electives[8, 9, 11]	~~3~~6	
		Electives[5]	~~17~~11	
		TOTAL	~~29-30~~ 30-31	
SENIOR				
		Select one of the following:		
MATH	417[P]	Advanced Calculus I[8]	3	
MATH	418[P]	Advanced Calculus II[8]	3	
MATH	466[P]	Abstract Algebra I	3	4C
MATH	467[P]	Abstract Algebra II[8]	3	
		Mathematical Sciences Electives[8, 9, 11]	12	
		Electives[5]	~~15~~ 14-16	
		TOTAL	~~30~~ 29-31	

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] Select two courses from the list in category 3B in the All-University Core Curriculum (AUCC). Only 3 of the 6 credits required for arts and humanities may come from intermediate (L* 200 and L* 201) foreign language courses..
[2] Select from the list of courses in category 3E in the AUCC.
[3] Select from the list of course in category 3D in the AUCC.
[4] Select from the list of courses in category 3C in the AUCC.
[5] Select enough elective credits to bring the program total to 120 credits with a minimum of 42 upper division credits.
[6] Select from the list of courses in category 2 of the AUCC.
[7] Students must take either CS 160 (4 credits), or take 4 credits including CS 155 and CS 156, **plus** two of the following one-credit courses: CS 157, MATH 151, MATH 152, and/or MATH 158/CS 158.
~~[8] Select 18 credits from upper division (300-400 level) MATH, CS, or STAT courses, except those courses ending in -80 to -99. At least 9 of the 18 credits must be from upper division MATH courses.~~
~~[9]At~~ [8] At least 12 credits of **ALL** upper division MATH courses must be at the 400-level or above.
~~[10]~~ [9] These courses are in addition to the 18 credits of Mathematical Sciences Electives required in footnote 8, and may not be used to fulfill the Mathematical Sciences Electives requirement.
~~[11]~~[10] Select a non-physics course from category 3A in the AUCC.
[11] Select 18 credits from upper division (300-400 level) MATH, CS, or STAT courses, except those courses ending in -80 to -99. At least 9 of the 18 credits must be from upper division MATH courses.

Request to Add a Third Offering of Experimental Course

A request by the College of Agricultural Sciences to offer experimental course AGRI 580A1, Emerging Challenges for Global Agriculture, a third time was approved. The recommended effective date, subject to approval by Faculty Council, is Fall Semester 2014.

Request to Add a Third Offering of Experimental Course and Change the Grading

A request by the Vice President for Student Affairs to offer experimental course IU 181A2, Career Development for Athletes, a third time was approved. The grading will be changed to "traditional" from "satisfactory/unsatisfactory." The recommended effective date, subject to approval by Faculty Council, is Summer Session 2014.

Request to Drop a Concentration in Statistics

A request by the Department of Mathematics to drop the concentration in Statistics under the major in Mathematics was approved. The recommended effective date, subject to approval by Faculty Council, is Fall Semester 2014.

Request to Change Catalog Copy

Requests to change sections of the *General Catalog* regarding u.select and advanced placement were approved. Subject to approval by Faculty Council, changes will appear in the upcoming edition for 2014-2015.

The meeting adjourned at 4:15 p.m.

(FC) 3/14/14

Carole Makela, Chair
Tom Hoehn, Secretary

February 24, 2014

TO: Carole Makela, Chair
University Curriculum Committee

FROM: Kelley Brundage
Associate Registrar

SUBJECT: Proposed Revisions to the *General Catalog* – College Board Advanced Placement Credit

Background:
This program provides a two-year interdisciplinary curriculum that ties together students' individual study within the broader Advanced Placement program. AP Capstone is an innovative new diploma program that gives students an opportunity to apply critical thinking, collaborative problem-solving, and research skills in a cross-curricular context.

AP Capstone is built on the foundation of a new, two-year high school course sequence — **AP Seminar** and **AP Research** — and is designed to complement and enhance the in-depth, discipline-specific study provided through AP courses. It cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions.

The pilot for this program began this past fall and after review with the Vice Provost for Undergraduate Affairs along with several representatives from across campus at the Advanced Placement update meeting in August 2013, the University has signed a statement of support of this new offering.

Rationale:

Based on the type of experience and exam these would most likely transfer to CSU as generic elective credit and the student would need to provide the detailed information regarding their study path and curriculum to be considered for re-evaluation. Due to the unique nature of this new exam type a change to the language in the CSU catalog specifically for Advanced Placement (AP) credit needs to be made. Current CSU AP policy indicates that equivalencies cannot be considered for re-evaluation, so a change to the wording (see below) would need to be added to allow a re-evaluation for just this examination type.

Request:

A request to add Advanced Placement language for the AP Capstone in the *College Board Advanced Placement Program* section in the 2014-2015 General Catalog as approved.

Additions - Underlined AND Deletions - ~~Strikeouts~~.

Section 1.3, page 4, 2014-2015 General Catalog, The College Board Advanced Placement Program.

The College Board Advanced Placement Program

The Advanced Placement Tests administered by The College Board are used by the University to award credit and advanced placement in any of several fields in which a student may have participated in high school. Credit awarded is treated as transfer credit without a grade but is counted toward graduation and may be used in fulfilling specific curriculum requirements.

The academic department responsible for the course in which test credit is granted determines what equivalency will be awarded. Department decisions are considered the final determination of equivalency for the specific examination. Therefore, a request for re-evaluation or an appeal of the decision will not be considered or accepted.

The exception to the re-evaluation process is limited to the Capstone Seminar and the Capstone Research components of the Advanced Placement offerings. The re-evaluation must be approved by the teaching department in which the Seminar and Capstone most closely align for consideration of a direct equivalency within the academic structure at Colorado State University.

Credit is granted for scores of 4 or 5five on the Advanced Placement Tests in government and politics, biology, computer science, English, environmental science, and human geography. Credit is granted in art, chemistry, Chinese, economics, French, German, history, Italian, Japanese, Latin, mathematics, music, physics, psychology, Spanish, and statistics for scores of 3 or higher. Scores of one and two are not granted credit. Generic credit will be granted for the Capstone Seminar and/or the Capstone Research Project when a minimum score 4 is earned.

February 21, 2014

TO: Carole Makela, Chair
University Curriculum Committee

FROM: Kelley Brundage
Associate Registrar

SUBJECT: Change to name of hosted transfer credit database – u.select changes to Transferology™ as of March 31, 2014.

Rationale: The Registrar's Office currently supports and maintains a set of software options related to degree requirements and transfer options. These programs (DARS/u.achieve, Transfer Equivalency System (TES) and u.select) are all licensed via CollegeSource Inc. As of March 31, 2014, CollegeSource Inc. the owner of the hosted product known as u.select has officially changed the name and branding for this product to Transferology™. As a result of this name change we are required under our agreement to ensure that references to u.select are updated to the new name of Transferology™.

Below are the 3 main sections where u.select is referenced in the CSU General Catalog.

Section 1.3, page 7; Section 1.7; page 6; Section 2.5, page 2 of the 2014-2015 CSU General Catalog.

Deletions are in ~~strikeout~~; additions are in underline

Update to the language in the CSU *2014-2015 Catalog* in section 1.3 **Undergraduate Admissions Policies and Procedures** page 7, ***u.select***

u.select Transferology™

Students who have completed courses in higher education want to know which colleges and universities will accept those courses and apply them to a degree. Transferology™ will provide quick answers from hundreds of institutions in a streamlined and dynamic interface.

~~U.~~Transferology™ (formerly known as u.select) enables students, advisors, faculty, and administrators from colleges and universities to obtain consistent and accurate information about how courses will transfer from one institution to another, and how ~~those~~ courses will apply to meet academic program requirements at the other institutions. A potential student can have direct access to course acceptability, equivalency, and applicability among all participating institutions by using each institution's existing course equivalency tables. Course descriptions, details about academic programs, and course equivalencies can all be obtained from this one website.

For Colorado State University~~, u.select,~~ Transferology™ is a database of selected accredited institutions in the U.S. and some recognized international institutions, their courses and how those courses will transfer to Colorado State University. All public institutions in Colorado and Wyoming are part of this database and, in addition, many frequently transferred courses from selected institutions in other states are also listed. Access this database by going to the website ~~www.registrar.colostate.edu and clicking on "Students," then "Transfer Evaluation," and then "Find Transfer Course Equivalencies (u.select) "~~www.transferology.com. If a particular institution is not listed, contact the Degree and Transfer Evaluation unit of the Registrar's Office for evaluation of specific courses.

Update to the language in the CSU *2014-2015 Catalog* in section 1.7, **Advising and Registration** page 6, ***Taking Courses at Another Institution***

Taking Courses at Another Institution

Enrolled students who wish to take undergraduate courses at another institution to transfer to Colorado State University should first determine how the courses will be accepted in transfer. To do so the student will need to access ~~u.select~~Transferology™ at ~~www.transfer.org/uselect/login.htm~~ www.transferology.com. For more information about ~~u.select~~Transferology™ please see the Registrar's Office website at www.registrar.colostate.edu.

If ~~u.select~~Transferology™ does not list the desired course or its institution, or it shows an equivalent course different from what the student is seeking, the student may petition a department to approve a course equivalent using the Transfer Course Equivalency Pre-Approval Form, available on the Registrar's Office website at www.registrar.colostate.edu/ faculty/forms.aspx

Update to the language in the CSU *2014-2015 Catalog* in section 2.5 **College of Agricultural Sciences** page 2, ***Transfer of Credits from Other Institutions***

Transfer of Credits from Other Institutions

Students who expect to transfer to the College of Agricultural Sciences are advised to plan carefully and in advance of their planned transfer to ei~~i~~nsure that transfer credits meet required courses in their chosen major. Transfer evaluations are generally determined by the Registrar's Office, although departments determine transfer of courses required by the department. Students planning to transfer to CSU are encouraged to access ~~**u.select**~~**Transferology™** through the Registrar's web site at www.registrar.colostate.edu. (Note: Credits from two-year colleges are not accepted for 300 and above level courses at Colorado State.) The College of Agricultural Sciences welcomes transfer students from both two- and four-year colleges and encourages potential transfer students to work closely with the University to minimize transfer issues.

University Curriculum Committee
February 28, 2014
CONSENT AGENDA

Minor Change to Courses

PRESENT LISTING			REQUESTED CHANGE	EFFECTIVE DATE
ANEQ	300R	Topics in Animal Sciences: Calves and Calf Care. Prerequisite: ANEQ 310; ANEQ 478.	Prerequisite: ANEQ 310; ANEQ 478 or ANEQ 510; senior standing.	Spring 2015
CIS	200	Business Information Systems. Prerequisite: BUS 150 or CIS 110 or AGRI 140.	Prerequisite: BUS 150 or CIS 110.	Fall 2014
MGT	301	Supply Chain Management. Prerequisite: AREC 202 or ECON 202; MATH 141 or MATH 155 or MATH 160.	Prerequisite: Sophomore standing.	Fall 2014
MGT	477	Advanced Logistics. F.	MGT 377. F, S.	Fall 2014
MGT	486	Practicum in Supply Chain Management. Prerequisite: MGT 301; MGT 375 or MGT 477.	Prerequisite: MGT 375; MGT 377; written consent of instructor.	Fall 2014
MU	365A-B	Advanced Diction. Prerequisite: MU 272Q.	Prerequisite: MU 172A; MU 172B.	Fall 2014
RRM	400	Food and Society. Prerequisite: SOC 100; must have completed category 3D and 3E AUCC requirements.	Prerequisite: PSY 100 or SOC 100; must have completed AUCC categories 3D and 3E requirements.	Fall 2014

Course Drops

PRESENT LISTING			EFFECTIVE DATE
ENVE/CIVE	322	Basic Hydrology. DROP ENVE 322 only.	Fall 2014
ENVE/CIVE	437	Wastewater Treatment Facility Design. DROP ENVE 437 only.	Fall 2014
ENVE/CIVE	438	Environmental Engineering Concepts. DROP ENVE 438 only.	Fall 2014

Minor Change to Curricula

College of Engineering
Department of Civil and Environmental Engineering **Effective Fall 2014**
Major in Civil Engineering
Civil Engineering Concentration

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

Course		Title	Cr	AUCC
JUNIOR				
CIVE	300[P]	Fluid Mechanics	3	
CIVE	301[P]	Fluid Mechanics Laboratory	1	
CIVE	302[P]	Evaluation of Civil Engineering Materials	3	
CIVE	303[P]	Infrastructure and Transportation Systems	3	
CIVE	322[P]~~/~~	Basic Hydrology	3	
~~ENVE~~	~~322[P]~~			
CIVE	367[P]	Structural Analysis	3	
CIVE	355[P]	Introduction to Geotechnical Engineering	3	
CIVE	356[P]	Geotechnical Engineering Laboratory	1	
CIVE	466[P]	Design and Behavior of Steel Structures	3	
ECE	204[P]	Introduction to Electrical Engineering	3	
MATH	340[P]	Introduction to Ordinary Differential Equations	4	4A, 4B
		Advanced Writing[4]	3	2
		Additional Requirements for Graduation[3]	0	
		TOTAL	33	
SENIOR				
CIVE	401[P]	Hydraulic Engineering	3	
CIVE	402[P]	Senior Design Principles	3	
CIVE	403[P]	Senior Project Design	3	4C
CIVE	438[P]~~/~~	Environmental Engineering Concepts	3	
~~ENVE~~	~~438[P]~~			
CIVE	467[P]	Design of Reinforced Concrete Structures	3	
		Global and Cultural awareness[5]	3	3E
		Historical Perspectives[6]	3	3D
		Technical Electives[7]	10	
		Additional Requirements for Graduation[3]	0	
		TOTAL	31	

PROGRAM TOTAL = 130 credits

[P] This course has at least one prerequisite. Check the Courses of Instruction section of the catalog or *http://catalog.colostate.edu/* to see the course prerequisites.

[3] Students are required to participate in the Professional Learning Institute (PLI) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: Global and Cultural Diversity (2 workshops), Innovation (2 workshops), Leadership (2 workshops), Civic and Public Engagement (2 workshops), and Ethics (3 workshops). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.

[4] Select from departmental list of courses from those in category 2 in the AUCC.

[5] Select from departmental list of courses from those in category 3E in the AUCC.

[6] Select from departmental list of courses from those in category 3D in the AUCC.

[7] Select from departmental list of permissible technical elective courses. At least 3 credits must be in engineering. At least 4 credits must be from the list of permissible additional science technical electives.

Civil Engineering:
Civil Engineering Concentration Technical Electives

Introduction: The undergraduate civil engineering concentration requires 10 credits of technical electives, of which at least 3 credits must be in engineering, and 4 credits must be science technical electives. The following list shows the courses that have been approved by the CEE Department for each category. Students proposing to take a course for a technical elective that is not on this list need to obtain permission from the CEE Department prior to enrollment for the course to count towards the 10 credits of technical electives.

LIST OF APPROVED SCIENCE TECHNICAL ELECTIVES (Take 4 credits**)—these courses will only fulfill the Science Technical Elective and cannot be used to fulfill the requirement for either the "Engineering Technical Elective" or the additional "Technical Elective" noted below.**

➢ GEOL120, (Exploring Earth) **or** 122, (Geol. of Environment) **or** 124, (Geol. of Natural Resources),		3 cr
And GEOL121, Introductory Geology Lab		1 cr
➢ GEOL 150 Physical Geology for Scientists and Engineers	4 cr	
➢ LIFE 102 Attributes of Living Systems		4 cr
➢ BZ 110 Principles of Animal Biology		3 cr
And BZ 111 Principles of Animal Biology Lab	1 cr	
➢ BZ 120 Principles of Plant Biology	4 cr	

LIST OF APPROVED ENGINEERING TECHNICAL ELECTIVES (Take at least 3 credits**)**

CIVE 305	Intermediate AutoCAD		3 cr
CIVE 330	Ecological Engineering		3 cr
CIVE 413	Environmental River Mechanics		3 cr
CIVE 423	Groundwater Engineering	3 cr	
CIVE 425	Soil and Water Engineering		3 cr
CIVE 437~~/ ENVE 437~~	Wastewater Treatment Fac. Design	3 cr	
CIVE 439/ ENVE 439	Environmental Engr Chemical Concepts		3 cr
CIVE 440	Nonpoint Source Pollution	3 cr	
CIVE 445	Sustainable Water and Waste Mgmt		3 cr
CIVE 455	Applications in Geotechnical Engr	3 cr	
CIVE 478	Transportation Engineering		3 cr
CIVE 502	Fluid Mechanics	3 cr	
CIVE 504	Wind Engineering		3 cr
CIVE 506	Wind Effects on Structures		3 cr
CIVE 510	Applied Hydraulic System Design	3 cr	
CIVE 512	Irrigation Systems Design	3 cr	
CIVE 514	Hydraulic Structures/Systems		3 cr
CIVE 516	Water Control and Measurement	3 cr	
CIVE 519	Irrigation Water Management		3 cr
CIVE 520	Physical Hydrology		3 cr
CIVE 521	Hydrometry		3 cr
CIVE 522	Engineering Hydrology		3 cr
CIVE 524/ WR 524	Modeling Watershed Hydrology		3 cr
CIVE 525	Water Engineering: International Development		3 cr
CIVE 531	Groundwater Hydrology	3 cr	
CIVE 532	Wells and Pumps	3 cr	

CIVE 534	Applied & Environmental Molecular Biology		3 cr
CIVE 538	Aqueous Chemistry		3 cr
CIVE 539	Water and Wastewater Analysis		3 cr
CIVE 540/ CBE 540	Advanced Biological Wastewater Processing		3 cr
CIVE 541	Environmental Unit Operations Trtmt/Design		3 cr
CIVE 544	Water Resources Planning & Management	3 cr	
CIVE 546	Water Resource Systems Analysis	3 cr	
CIVE 547	Statistics for Environmental Monitoring		3 cr
CIVE 549	Drainage and Wetlands Engineering		3 cr
CIVE 550	Foundation Engineering		3 cr
ENGR 550/ MATH 550	Numerical Methods in Science & Engineering		3 cr
CIVE 553	Slope Stability and Retaining Structures		3 cr
CIVE 558	Containment Systems for Waste Disposal	3 cr	
CIVE 560	Advanced Mechanics of Materials	3 cr	
CIVE 562	Fundamentals of Vibrations		3 cr
CIVE 565	Finite Element Method		3 cr
CIVE 566	Intermediate Structural Analysis		3 cr
CIVE 567	Advanced Concrete Design		3 cr
CIVE 568	Design of Masonry and Wood Structures	3 cr	
CIVE 571	Pipe System Engineering and Hydraulics	3 cr	
CIVE 574	Civil Engineering Project Management		3 cr
CIVE 576	Engineering Applications of GIS & GPS		3 cr
CIVE 577	GIS in Civil and Environmental Engineering	3 cr	
CIVE 578	Infrastructure and Utility Management		3 cr
CIVE 579	Risk and Security of the Built Environment	3 cr	

LIST OF APPROVED TECHNICAL ELECTIVES—students may select from the list of courses below or they may select an additional course from the above "List of Approved Engineering Technical Electives" to fulfill this requirement.

(**only 3 credits** of a 4 or 5 credit course **will be applied** toward a Technical Elective from this list)

AA 301	Astrophysics I		5 cr	
BC 351	Principles of Biochemistry	4 cr		
CHEM 245	Fundamentals of Organic Chemistry			4 cr
CHEM 345	Organic Chemistry I			4 cr
*****CON 370	Asphalt Pavement Materials & Construction		3 cr.	
ERHS 446	Environmental Toxicology			3 cr
*+FIN 305	Fundamentals of Finance		3 cr	
GEOL 442	Applied Geophysics			4 cr
LIFE 320	Ecology		3 cr	
MATH 332	Partial Differential Equations			3 cr
*+MGT 305	Fundamentals of Management			3 cr
MIP 300	General Microbiology			3 cr
*+MKT 305	Fundamentals of Marketing			3 cr
NR319	Geospatial Applications in Natural Resources			3 cr
NR 322	Introduction to Geographic Information Systems			4 cr
NR 323/ GR 323	Remote Sensing Images Interpretation			3 cr
WR 304/ GR 304	Principles of Watershed Management			3 cr

***These courses may require approval from the respective Department/College to enroll**
[+]Credit only allowed for one of the following: FIN305, MGT 305, or MKT 305

Major in Civil Engineering **Effective Spring 2014**
Soil and Water Resource Engineering Concentration

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

Course	Title	Cr	AUCC
JUNIOR			
CHEM 113[P]	General Chemistry II	3	
CIVE 300[P]	Fluid Mechanics	3	
CIVE 301[P]	Fluid Mechanics Laboratory	1	
CIVE 302[P]	Evaluation of Civil Engineering Materials	3	
CIVE 322[P] ~~/~~	Basic Hydrology	3	
~~ENVE 322[P]~~			
CIVE 330[P]	Ecological Engineering	3	
CIVE 367[P]	Structural Analysis	3	
ECE 204[P]	Introduction to Electrical Engineering	3	
MATH 340[P]	Introduction to Ordinary Differential Equations	4	4A, 4B
	Advanced Writing[4]	3	2
	Arts and Humanities[3]	3	3B
	Global and Cultural Awareness[5]	3	3E
	Additional Requirements for Graduation[2]	0	
	TOTAL	35	

PROGRAM TOTAL = 130 credits

[P] This course has at least one prerequisite. Check the Courses of Instruction section of the catalog at *http://catalog.colostate.edu/* to see the course prerequisites.
[2] Students are required to participate in the Professional Learning Institute (PLI) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: Global and Cultural Diversity (2 workshops), Innovation (2 workshops), Leadership (2 workshops), Civic and Public Engagement (2 workshops), and Ethics (3 workshops). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.
[3] Select two courses from departmental list of those in category 3B in the All-University Core Curriculum (AUCC). Only 3 of the 6 credits required for arts and humanities may come from intermediate (L* 200 and L* 201) foreign language courses.
[4] Select from the department list of courses from those in category 2 of the AUCC.
[5] Select from departmental list of courses from those in category 3E in the AUCC.

Major in Environmental Engineering **Effective Fall 2014**
Ecological Engineering Concentration

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

Course		Title	Cr	AUCC
JUNIOR				
CBE	201[P]	Material and Energy Balances	3	
		OR		
MECH	237[P]	Introduction to Thermal Sciences	3	
STAT	315[P]	Statistics for Engineers and Scientists	3	
LIFE	320[P]	Ecology	3	
CIVE	300[P]	Fluid Mechanics	3	
CIVE	301[P]	Fluid Mechanics Laboratory	1	
CIVE	322[P]~~/~~	Basic Hydrology	3	
~~ENVE~~	~~322~~[~~P~~]			
CIVE	330	Ecological Engineering	3	
CIVE	360[P]	Mechanics of Solids	3	
CIVE	438[P]~~/~~	Environmental Engineering Concepts	3	
~~ENVE~~	~~438~~[~~P~~]			
ERHS	446[P]	Environmental Toxicology	3	
		Arts and Humanities[3]	3	3B
		Science Electives[4]	3	
		Additional Requirements for Graduation[1]	0	
		TOTAL	34	
SENIOR				
CIVE	401[P]	Hydraulic Engineering	3	
CIVE	402[P]	Senior Design Principles	3	
CIVE	403[P]	Senior Project Design	3	4C
CIVE	439[P]/	Environmental Engineering Chemical Concepts	3	
CBE	439[P]			
CIVE	440[P]	Nonpoint Source Pollution	3	
CIVE	441[P]	Water Quality Analysis and Treatment	3	
~~ENVE~~	~~441~~[~~P~~]			
		Arts and Humanities[3]	3	3B
		Global and Cultural Awareness[5]	3	3E
		Historical Perspectives[6]	3	3D
		Science Electives[4]	3	
		Technical Electives[7]	3	
		Additional Requirements for Graduation[1]	0	
		TOTAL	33	

PROGRAM TOTAL = 130 credits

[P] This course has at least one prerequisite. Check the Courses of Instruction section of the catalog or *http://catalog.colostate.edu/* to see the course prerequisites.

[1] Students are required to participate in the Professional Learning Institute (PLI) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: Global and Cultural Diversity (2 workshops), Innovation (2 workshops), Leadership (2 workshops), Civic and Public Engagement (2 workshops), and Ethics (3 workshops). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.

[3]Select 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.

[4] Select courses with adviser's approval.

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

[6] Select from the list of courses in category 3D in the AUCC.

[7] Select courses with adviser's approval.

Major in Environmental Engineering **Effective Fall 2014**
Environmental Engineering Concentration

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

Course		Title	Cr	AUCC
JUNIOR				
CBE	201[P]	Material and Energy Balances	3	
		OR		
MECH	237[P]	Introduction to Thermal Sciences	3	
CIVE	202[P]	Numerical Modeling and Risk Analysis	3	
CIVE	203[P]	Engineering Systems and Decision Analysis	3	
CIVE	300[P]	Fluid Mechanics	3	
CIVE	301[P]	Fluid Mechanics Laboratory	1	
CIVE	322[P] ~~/~~	Basic Hydrology	3	
~~ENVE~~	~~322[P]~~			
CIVE	360[P]	Mechanics of Solids	3	
CIVE	438[P] ~~/~~	Environmental Engineering Concepts	3	
~~ENVE~~	~~438[P]~~			
ERHS	446[P]	Environmental Toxicology	3	
MIP	300[P]	General Microbiology	3	
		Arts and Humanities[3]	3	3B
		Additional Requirements for Graduation[1]	0	
		TOTAL	31	
SENIOR				
CIVE	401[P]	Hydraulic Engineering	3	
CIVE	402[P]	Senior Design Principles	3	
CIVE	403[P]	Senior Project Design	3	4C
CIVE	425[P]	Soil and Water Engineering[4]	3	
CIVE	439[P]/	Environmental Engineering Chemical Concepts	3	
CBE	439[P]			
CIVE	441[P]	Water Quality Analysis and Treatment	3	
~~ENVE~~	~~441[P]~~			
		Arts and Humanities[3]	3	3B
		Global and Cultural Awareness[45]	3	3E
		Historical Perspectives[56]	3	3D
		Technical Electives[67]	8	
		Additional Requirements for Graduation[1]	0	
		TOTAL	35	

PROGRAM TOTAL = 130 credits

[P] This course has at least one prerequisite. Check the Courses of Instruction section of the catalog or *http://catalog.colostate.edu/* to see the course prerequisites.

[1] Students are required to participate in the Professional Learning Institute (PLI) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: Global and Cultural Diversity (2 workshops), Innovation (2 workshops), Leadership (2 workshops), Civic and Public Engagement (2 workshops), and Ethics (3 workshops). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.

[3] Select 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.
~~[4] ATS 555 and ATS 560 (both courses) may substitute for CIVE 425. If this pair of courses is chosen, one credit may be counted toward technical electives.~~
~~[4]~~[5] Select from the list of courses in category 3E in the AUCC.
~~[5]~~[6] Select from the list of courses in category 3D in the AUCC.
~~[6]~~[7] Select courses with adviser's approval.

College of Health and Human Sciences
Department of Design and Merchandising **Effective Fall 2014**
Major in Interior Design

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

Course		Title	Cr	AUCC
FRESHMAN				
ART	100	Introduction to the Visual Arts	3	3B
CO	150 P	College Composition	3	1A
CON	151	Construction Materials and Methods	3	
DM	120	Textiles	3	
INTD	129	Introduction to Interior Design	3	
INTD	166	Visual Communication/Sketching	3	
MATH	117 P	College Algebra in Context I	1	1B
MATH	118 P	College Algebra in Context II	1	1B
MATH	124 P	Logarithmic and Exponential Function	1	1B
PSY	100	General Psychology	3	3C
		Arts and Humanities[1]	3	3B
		Biological and Physical Sciences[2]	4	3A
		~~Historical perspectives[3]~~	~~3~~	~~3D~~
		TOTAL	31	
SOPHOMORE				
INTD	235 P	Interior Design Technologies	3	
~~DM~~	~~120~~	~~Textiles~~	~~3~~	
INTD	210 P	Interior Design Anatomy	3	
INTD	236 P	Three-Dimensional Thinking	3	
INTD	256 P	Computer-Aided Design for Interior Designers	3	
INTD	266 P	Visual Communication-Multi-Media	3	
INTD	276 P	Interior Design I	3	
INTD	350 P	Codes-Health and Safety	3	
		Historical Perspectives[3]	3	3D
		Electives	6	
		TOTAL	30	
JUNIOR				
ART	110	Art History I	3	
		OR	3	
HIST	354 P	American Architectural History	3	
CON	371 P	Mechanical and Plumbing Systems	3	
INTD	330 P	Lighting Design	3	
INTD	340 P	Interior Materials and Finishes	3	
INTD	356 P	Professional Communications-Interior Design	3	4A
INTD	359 P	History of Interior Design	3	

Course		Title	Cr	AUCC
INTD	376 [P]	Interior Design II	3	
PSY	316 [P]	Environmental Psychology	3	
		Advanced Writing[4]	3	2
		Electives	3	
		TOTAL	30	
SENIOR				
INTD	400 [P]	Interior Design Research Proposal	4	4B
INTD	476 [P]	Interior Design Project	4	4C
INTD	487 [P]	Internship-Interior Design[5]	3	
		Biological and Physical Sciences[2]	3	3A
		Global and Cultural Awareness[6]	3	3E
		Upper division electives[7]	12	
		TOTAL	29	

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/* to see the course prerequisites.

[1] Select from the list of courses in category 3B in the All-University Core Curriculum (AUCC). Only 3 of the 6 credits required for arts and humanities may come from intermediate (L* 200 and L* 201) foreign language courses.

[2] Select from the list of courses in category 3A in the AUCC. One course must have a laboratory component.

[3] Select from the list of courses in category 3D in the AUCC.

[4] Select from the list of courses in category 2 in the AUCC.

[5] Substitute experiences could include study abroad or independent study (service learning) with prior adviser approval.

[6] Select from the list of courses in category 3E in the AUCC.

University Curriculum Committee
February 28, 2014
EXPERIMENTAL COURSE REPORT

COURSE		TITLE	TERM	1st/2nd OFFERING	REQUEST DATE	ARIES DATE
AGRI	580A2	Sustainable Agriculture	FA14	2nd	2/25/14	2/25/14
HORT	381A1	Interior Plantscaping	FA14	1st	2/18/14	2/21/14
IU	280A6	Engaging in Clinical and Experimental Research	FA14	2nd	2/21/14	2/21/14
LSGN	280A1	Second Year American Sign Language I	FA14	2nd	2/18/14	2/18/14
VS	480A1	Human-Animal Interactions	FA14	2nd	2/25/14	2/25/14