

*PLEASE NOTE: Members, when addressing Faculty Council, please stand and identify yourselves. Guests wishing to speak please fill out a guest card to be handed to the Chair prior to speaking.*

*PLEASE NOTE: Members planning to introduce amendments are requested to provide copies to the Faculty Council Office, 18A Administration, at least 24 hours before this meeting.*

## **AGENDA**

### **Faculty Council Meeting**

**Tuesday, October 2, 2012 - 4:00 p.m. - Room A102 Clark Building**

#### ***Announcements***

- A. Next Faculty Council Meeting - November 6, 2012 - A102 Clark Building - 4:00 p.m.
- B. Executive Committee Meeting Minutes - August 21, and September 11, and 18, 2012 (found on FC website)

#### ***Minutes to be Approved***

- A. Faculty Council Meeting Minutes - September 4, 2012 (pp. 1-11)

#### ***Reports To Be Received***

- A. Provost/Executive Vice President
- B. Faculty Council Chair
- C. Associated Students of Colorado State University (ASCSU) - Officers - Student Issues
- D. Graduate Student Council (GSC) - Officers - Student Issues

#### ***Consent Agenda***

- A. Changes in Curriculum to be Approved: University Curriculum Committee Minutes: August 24, and 31, and September 7, 2012 (pp. 12-21)
- B. Approval of Degree Candidates - Fall Semester 2012 (p. 22)

#### ***Action Item***

- A. Elections - Student Representatives (Graduate and Undergraduate) - Faculty Council Standing Committees - Committee on Faculty Governance (p. 23)

#### ***Discussion Item***

- A. Campus Climate Survey Results - Presented by Mary Ontiveros, Vice President for Diversity

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*Secretary's Note: Please detach at this line, print your name, and leave in attendance box at the Faculty Council meeting. If you must be absent, you are encouraged to send a substitute representative of academic faculty status in order to provide proper representation at the meeting. Substitutes should turn in the attendance slip at the meeting and indicate on the slip whom they are representing. Members will find it helpful to have copies of the Faculty Council, University Curriculum Committee and Executive Committee minutes available for reference at the meeting.*

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To Faculty Council Members: Your critical study of these minutes is requested. If you find errors, please call, send a memorandum, or E-mail immediately to Diane L. Maybon, ext 1-5693.

NOTE: Final revisions are noted in the following manner: additions underlined; deletions ~~over scored~~.

***MINUTES  
FACULTY COUNCIL  
September 4, 2012***

***CALL TO ORDER***

The Faculty Council meeting was called to order at 4:00 p.m. by Timothy Gallagher, Chair.

***ANNOUNCEMENTS***

- A. Next Faculty Council Meeting - October 2, 2012 - A205 Clark Building - 4:00 p.m.

Gallagher announced the next regularly scheduled Faculty Council meeting will be held on Tuesday, October 2, 2012 in A205 Clark Building at 4:00 p.m.

- B. President's Fall Address and University Picnic - On the Oval - Thursday - September 13, 2012 - 11:30 a.m.

Gallagher announced that the President's Fall Address and University Picnic will be held on Thursday, September 13, 2012. The President's address will begin at 11:30 a.m. followed by the University Picnic. All activities will be held on the Oval.

- C. Faculty Council Annual Report to the Board of Governors 2011-2012

Gallagher announced that the 2011-12 Faculty Council Annual Report to the Board of Governors was presented at its June 2012 meeting. This report is compiled by the Faculty Council Executive Committee at its May meeting. A copy of the report is included for information.

- D. Faculty Council Attendance Summary 2011-12  
E. Faculty Council - Location of Issues - Tracking  
F. Schedules of Faculty Council/Executive Committee Meeting Dates 2012-13  
G. Faculty Council Membership List 2012-13  
H. Faculty Council Standing Committees Membership List 2012-13  
I. University Committees Membership List 2012-13  
J. Faculty Council Website Links  
K. Parliamentary Rules Regarding Debate on the Question  
L. Parliamentary Motions - Quick Reference  
M. Parliamentary Motions - What They Mean  
N. Faculty Council Standing Rules for Open Forum and Informal Discussions

Gallagher announced that items D through N have been included as informational items for Faculty Council members.

- O. Executive Committee Meeting Minutes - May 8, 2012

Gallagher announced that the May 8, 2012 Executive Committee meeting minutes have been posted on the Faculty Council website for Faculty Council members information.  
(<http://facultycouncil.colostate.edu/index.asp?url=links>)

- P. Elections - Student Representatives (Undergraduate and Graduate) October 2, 2012 - Faculty Council Standing Committees - Committee on Faculty Governance

Gallagher announced that the elections for Undergraduate and Graduate Student Representatives on Faculty Council Standing Committees will be held at the October 2, 2012 Faculty Council meeting.

- Q. New Interdisciplinary Minor - Film Studies - Effective Fall Semester 2012 - University Curriculum Committee - Adopted by Executive Committee, acting for Faculty Council, at its May 8, 2012 Meeting

Gallagher announced that the Faculty Council Executive Committee, acting for Faculty Council, approved a new Interdisciplinary Minor in Film Studies to be effective Fall Semester 2012. Executive Committee acted for Faculty Council in order to facilitate the Fall Semester 2012 start date.

### ***MINUTES TO BE APPROVED***

- A. Faculty Council Meeting Minutes - May 1, 2012

By unanimous consent, the May 1, 2012 Faculty Council Meeting Minutes were approved.

### ***UNFINISHED BUSINESS***

- A. Standing Committee Election - Committee on Faculty Governance

Mary Stromberger, Vice Chair, Faculty Council, nominated on behalf of the Committee on Faculty Governance, the following faculty members to serve three year terms on the following Faculty Council Standing Committees:

Committee on University Programs  
Frank Peairs- Agricultural Sciences  
Karyn Hamilton - Applied Human Sciences

Gallagher asked if there were any other nominations for the vacancies on the Faculty Council Standing Committees.

Hearing no further nominations, the nominations were closed.

All faculty members nominated above were elected to serve three years terms beginning immediately to June 30, 2015 on the above Faculty Council Standing Committees.

- B. University Discipline Panel Election - Committee on Faculty Governance

Stromberger, Vice Chair, Faculty Council, nominated on behalf of the Committee on Faculty Governance, the following faculty member to serve a three year terms on the University Discipline Panel:

Steven E. Newman - Agricultural Sciences

Gallagher asked if there were any other nominations for the University Discipline Panel.

Hearing no further nominations, the nominations were closed.

Steven E. Newman was elected to serve a three year term beginning immediately to June 30, 2015 on the University Discipline Panel.

C. University Benefits Committee Election - Committee on Faculty Governance

Stromberger, Vice Chair, Faculty Council, nominated on behalf of the Committee on Faculty Governance, the following faculty member to serve a three year term on the University Benefits Committee.

Luis Garcia - Engineering

Gallagher asked if there were any other nominations for the University Benefits Committee.

Hearing no further nominations, the nominations were closed.

Luis Garcia was elected to serve a three year term beginning immediately to June 30, 2015 on the University Benefits Committee.

***REPORTS TO BE RECEIVED***

A. President

Tony Frank, President, reported that the single big topic dominating discussions this summer was the Colorado wildfires. Frank, on behalf of the Board of Governors and the Administration, thanked everyone on campus involved in helping and assisting those affected by the wildfires.

Frank reported that the University's primary challenge is the on-going privatization of public higher education. Frank noted that privatization transitions the cost burden from the taxpayer to the student. Frank explained that Colorado Future's prediction is that 100 percent of the cost of tuition will be shifted to student. Frank noted that access to excellence is the mission of Colorado State University. He noted, how does Colorado State University adapt and prepare for public de-funding and survive it with strength? Frank explained that some tools to surviving de-funding would be to attract non-residents to Colorado State University, expand enrollment, and to make sure there is appropriate tuition pricing compared to our peers.

Frank reported that he is closely monitoring the Federal budgets and how research will be affected if research and development funding pools shrink. Frank said he is working with federal delegations and legislation teams to keep abreast of this issue.

Frank reported that the State may put more money than last year into the higher education budget. Frank said there is on-going discussion about tuition setting and he is working with State officials regarding this issue. If tuition revenue is restricted more than an increase in State funding, this would represent a "de facto" cut to Colorado State University's budget. He explained that a 9 percent resident tuition increase, a 3 percent non-resident tuition increase with no enrollment growth, and a 3 percent salary increase equals a balanced budget if State neither adds or cuts money from the budget.

Frank reported that a new private donation campaign has begun and he is identifying academic priorities for targeted fundraising.

Frank reported that other Colorado State University topics include suicide and mental health challenges on campus, retention, and graduation. In addition, more needs to be done to improve and maintain good relationships between the University and adjunct faculty members. Frank noted that he is meeting with the Women and Gender Equities Committee regarding University wide women's initiatives.

Steve Robinson asked if Colorado State University privatizes, will there still be a distinction between residents and non-residents? Frank responded that the State will likely view Colorado State University as de-funded but not privatized. He added that Colorado State University has a historic brand as a publicly funded university and the State has provided approximately \$1 billion in capital assets. The State remains concerned that tuition pricing not become too high.

Roger Culver asked what effect the Colorado State University's win over the University of Colorado will have on the stadium decision. Frank replied none. Frank added that a building a stadium does not necessarily determine how well a team performs and that his decision will be based on financial impacts and not on the football team's win record.

Julie Gionfriddo asked about the status of the stadium. Frank responded that he has the report from the stadium committee and is digesting information. Frank added that he is mainly focused on the financial aspects before going to the Board of Governors with a recommendation. Frank noted that he must be comfortable and confident in the financial projections before a decision is made.

Antonio Pedros-Gascon asked if Frank agreed that non tenure-track faculty should be given the right to vote in academic topics/faculty decisions on a department level. Frank responded that those are decisions for Faculty Council to make, not the administration.

Frank's report was received.

B. Provost/Executive Vice President

Rick Miranda, Provost/Executive Vice President, reported that this summer Colorado State University was extremely busy with the wildfires around Colorado. Miranda thanked faculty and everyone involved in helping those affected and offered his condolences to everyone who had losses in the wildfires. Miranda reported that Tom Vilsak, Secretary of Agriculture, commented to him that he had never seen a University so involved in firefighting efforts. Miranda noted that Colorado State University served as base camp for operations to take care of logistics, leadership, and the set up of National Guard personnel. Miranda added that firefighters were housed and given meals in residence halls. Miranda commended the Warner College of Natural Resources for acting quickly to restructure the Pingree Park summer program when Pingree Park was evacuated. Miranda stated that Pingree Park later served as base camp for the westernmost firefighters. He added that Johnson Hall was site of a victim assistance center, where resources were distributed to fire victims.

Miranda reported that the INTO program is up and running. Miranda reported that John Didier has been appointed as first INTO Center Director and Patti Cowell has been appointed as the Academic Director. Miranda said that 350 students are enrolled in the INTO program today, most of which are in the Academic English (pre-pathway) program. These students should transition into the Pathway program this January.

Miranda reported the on student success initiatives to increase student retention and graduation rates. He noted that academic support coordinators have been hired, and efforts are underway with faculty and administrators to streamline academic programs and engage students more fully in their programs. Miranda explained that engagement is key to increasing student satisfaction, retention, and graduation success.

Miranda reported that RamWelcome was a huge success this year. Miranda thanked Blanch Hughes, Vice President for Student Affairs, for her efforts regarding RamWelcome.

Miranda reported that Michael Martin has been hired as the new Chancellor of the Colorado State University System.

Miranda reported another record year for Colorado State University with major research accomplishments last year.

Miranda reported that there are Phase 1 and Phase 2 Council of Deans' review for new degree programs. He explained that the Phase 1 justifies the need for the new program and curriculum and Phase 2 is the Council of Deans final approval for new programs and curriculum. He explained that a new Phase 0 process has been implemented and this phase initiates conversations with deans and associate deans regarding "newly imagined" programs and curricula. Miranda noted that this will be focus of an upcoming Council of Deans retreat.

Miranda reported that Colorado State University has committed to add a new lecture hall to the Behavioral Science Building. He reported that the Lory Student Center renovations will begin soon and the Library renovations are complete. Miranda reported that the Engineering II building is underway. Miranda report, in addition, the Engines Laboratory, Moby Arena, Animal Sciences Building, Equine Reproduction Laboratory, and Eddy Hall are all slated for renovations starting this year.

Miranda reported that Sandy Woods, Dean, College of Engineering left Colorado State University this summer and Steve Abt was appointed as the Interim Dean of the College of Engineering. In addition, Lance Perryman retired as the Dean, College of Veterinary Medicine and Biomedical Sciences, and Mark Stetter was appointed as the new Dean of the College of Veterinary Medicine and Biomedical Sciences. Miranda also reported that Ajay Menon was reappointed as the Dean of the College of Business and Joyce Berry was

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reappointed as the Dean of the Warner College of Natural Resources.

Miranda reported that this academic year will be the big "push" year for the upcoming Higher Learning Commission visit, which will occur November 2013. He added that Bob Jones is leading this effort.

Frank offered congratulations to Miranda upon his son defended his doctoral dissertation this week.

Miranda's report was received.

C. Faculty Council Chair

Gallagher reported that last year he visited all of the Faculty Council standing committees in his capacity as an *ex-officio* member. He noted that he is in the process of doing this again this year.

Gallagher highlighted the processes by which revisions to the *Graduate Professional Bulletin*, *General Catalog*, and *Manual* are made, including duties/responsibilities of standing committees, Executive Committee, Faculty Council and the Board of Governors.

Gallagher pointed out that the Chair of Faculty Council serves on the Council of Deans and Cabinet, to represent the faculty interests in these meetings (non-administrative voice).

Gallagher thanked everyone who opted to receive the Faculty Council agendas electronically. Gallagher reminded Faculty Council members to read the agenda materials and to come prepared to the Faculty Council meetings.

Gallagher's Report was Received.

D. Board of Governors Faculty Representative

Carole Makela, Board of Governors Faculty Representative, reported that her written report found on pages 52-53 summarizes the May, June and August Board of Governors meetings. Makela also noted that Diane Maybon has linked the Colorado Master Plan related to Higher Education on the Faculty Council website. Makela reported that Universities and Colleges have some time to respond to this plan prior to putting together performance contracts.

Makela's report was received.

E. Benefits Committee Annual Report 2011-12 - Juliet Gionfriddo, Faculty Member Co-Chair

Juliet Gionfriddo, Co-Chair, Benefits Committee, presented a synopsis of the written Benefits Committee Annual Report found on pages 54-61.

Gionfriddo's report was received.

F. Faculty Council Standing Committee 2011-12 Annual Reports

1. Executive Committee
2. Committee on Faculty Governance - no report received
3. Committee on Intercollegiate Athletics
4. Committee on Libraries
5. Committee on Responsibilities & Standing of Academic Faculty
6. Committee on Scholarship, Research & Graduate Education
7. Committee on Scholastic Standards
8. Committee on Strategic & Financial Planning - no report received
9. Committee on Teaching & Learning
10. Committee on University Programs
11. University Curriculum Committee

The Faculty Council Standing Committee 2011-12 annual reports were declared to be filed.



### CONSENT AGENDA

- A. Changes in Curriculum to be Approved: University Curriculum Committee Minutes: April 20, 27 and May 4, 2012
- B. Confirmation of Faculty Council Secretary - Diane Maybon, Executive Assistant to Faculty Council
- C. Confirmation of Faculty Council Parliamentarian - Lola Fehr, Registered Parliamentarian

Howard Ramsdell, Chair, University Curriculum Committee, moved that Faculty Council approve the above Consent Agenda items.

Ramsdell's motion was adopted and the Consent Agenda items were approved.

### ACTION ITEMS

- A. Proposed Revisions to the *Graduate and Professional Bulletin* - E.13 Scholastic Standards - "Graduate Study" - Committee on Scholarship, Research, and Graduate Education

Stromberger, Vice Chair, Faculty Council, and Immediate Past Chair, Committee on Scholarship, Research, and Graduate Education, moved that the Faculty Council approve the proposed revisions to the Graduate and Professional Bulletin - Section E.13 Scholastic Standards - "Graduate Study" to be effective upon approval by Faculty Council as follows:

Additions - Underlined - Deletions ~~Overscored~~

Failure to maintain good academic standing results in being placed on academic probation. (New regularly admitted students will not be placed on probation until they have completed 12 regular credits or two semesters of graduate work, whichever comes first.) The probationary period extends for one semester beyond the one in which this status is acquired, and During this probationary period, which the student must registers for traditionally graded courses that affect the grade point average (i.e., traditionally graded regular and non-regular courses). With permission of the student's advisory committee, the student may register for continuous registration instead of traditionally graded courses. Continuous registration may be used to extend the probationary period for a maximum of two semesters, after which traditionally graded courses must be taken. The period allowed between being placed on probation and registering for courses that affect the grade point average shall be limited by the student's advisory committee within their criteria for determining satisfactory progress. Students on probation are subject to dismissal by the academic department or the Dean of the Graduate School at the end of the probationary semester unless good academic standing has been regained. This requires adequate improvement in cumulative grade point averages (3.000) and/or satisfactory progress as determined by the student's graduate advisory committee. Track III students in combined 16 bachelor's/master's degree programs who have accumulated at least 120 credit hours of course work and who fail to maintain a 3.000 GPA in their graduate course work including any courses listed on their GS 6 Form will be placed on probation by the Graduate School and will have one semester in which to improve their cumulative grade point averages to no less than 3.000 in their graduate course work. Failure to bring the cumulative graduate GPA to at least 3.000 will result in dismissal from the Graduate School with no re-enrollment permitted prior to completion of the bachelor's degree. Track III students who are dismissed from the Graduate School, and who are still in good standing within their undergraduate programs, will be permitted to complete their undergraduate degrees. These students can petition the Registrar to reinstate courses to be applied toward their undergraduate degrees.

A student's graduate advisory committee or an appropriate departmental graduate committee may recommend immediate dismissal upon a finding that the student is making unsatisfactory progress toward the degree and that satisfactory progress cannot reasonably be anticipated. Such a recommendation must be documented in writing with substantive justification for this action in lieu of probation. It must be referred to the Department Head for approval and the Dean of the Graduate School for final action. The student may appeal such an immediate dismissal through the existing Graduate School appeals procedure. Departments which invoke this process must have published guidelines explaining the performance indicators which lead to immediate dismissals.

Stromberger explained that this wording change clarifies the original intent of the probationary period, which gives the student a chance to bring up their grade point average and continue on to earn their degree. Stromberger noted that the added sentence clarifies that the student can delay taking course work by registering for continuous registration instead of traditionally graded courses, but that continuous registration can be used only for a maximum of two semesters. Stromberger explained that the deleted sentence is not needed because the Bulletin and not the student's committee is setting the period between being placed on probation and registering for traditionally graded courses.

Stromberger's motion was adopted.

### ***DISCUSSION***

#### **A. How to Assess Teaching Effectiveness**

Gallagher introduced Dan Turk, Immediate Past Chair, Committee on Teaching and Learning, Stephanie Clemons, Chair, Committee on Teaching, and Learning, and Mike Palmquist, Associate Vice Provost for Learning and Teaching (TILT). Gallagher explained that the discussion today will center around how to assess teaching effectiveness.

Dan Turk explained that in the Spring of 2011 the Committee on Teaching and Learning (CoTL) asked the staff from TILT to develop a set of recommendations for assessing teaching effectiveness. Turk reported that a task force was established which included University Distinguished Teaching Scholars (UDTS) and staff from TILT. The UDTS/TILT task force presented a report to the CoTL in November 2011. The report had four recommendations.

Mike Palmquist noted the following recommendations made by the UDTS/TILT Task Force on Assessing Teaching Effectiveness:

1. Teaching effectiveness should be assessed in part through the use of teaching portfolios during merit, promotion, tenure, and post-tenure reviews. The University should develop a Web-based portfolio system that will allow faculty members to provide evidence of teaching effectiveness.
2. Teaching effectiveness should also be assessed through peer-observation of teaching.
3. Assessments of teaching effectiveness should include the faculty member's reflective statements on teaching performance and activities.
4. Existing professional development programs supporting teaching effectiveness - in TILT, in the Colleges and Departments, and in Student Affairs - should be continued or enhanced. These groups should collaborate on the development of new professional development programs supporting teaching effectiveness.

Turk explained that the CoTL reviewed the UDTS/TILT Task Force recommendations and in addition to the four recommendations from the UDTS/TILT task force the CoTL came up with the following additional recommendations:

1. Encourage instructors to pay conscious attention to their approaches to teaching.
2. Develop, maintain, and promote a centralized location where (portfolios of) instructional best practices are archived.
3. Collect, disseminate, and rely on evidence supporting instructional best practices.
4. Encourage departments to build a culture of regularly (annually, etc.) focusing on teaching effectiveness.
5. Emphasize the use of peer reviews, observations, and evaluations.
6. Focus consciously on "outputs" of the teaching process, not just "inputs".



7. Recommend these good ideas, but do not mandate them, until teaching is recognized more significantly in evaluations and in the University's evaluation/reward structure.
8. Direct TILT to implement the recommendations that are under its purview.

David Green noted that this is great idea. He asked about how teaching is evaluated as part of the promotion and tenure (P&T) process. In addition, Greene asked, how can we make these suggestions count and become part of reality? Palmquist responded that we need to find a way to balance teaching with research missions and find ways to reward for good teaching.

Dana Hoag noted that on the other hand, there are potentials for abuses. He asked that the CoTL might suggest standards or methods to prevent abuses. Gallagher pointed out that this may be a matter for department codes or pointed out that there could be an over-arching interest on campus that might require guidance from Faculty Council.

Patricia Ryan added that teaching rewards and support structure is important for faculty and academic success.

Robinson noted that the present wording in the *Manual* had the support of the Faculty Council and he would like to see a few departments put new language in their departmental codes and report back to Faculty Council on how it works. He added that then there should be another discussion regarding this issue in Faculty Council to see if *Manual* changes are appropriate or if this should be left to departments to decide with their codes. Palmquist supported Robinson's idea. Pedros-Gascon agreed it that this should be approached at the department level.

Mike Lundblad noted that if something is mandated (portfolios), such as a reflective statement, will this feel like a "task"? In addition, will mandating portfolio pieces be helpful? Alex Bernasek stated that teaching mandates are "busy work" if they don't count towards P&T. Bernasek added that there is a need to focus on a culture that creates an organic change from within the administration body. She added that she is concerned for junior faculty. Palmquist noted that teaching evaluations can tip the scale for junior faculty who may not otherwise receive tenure. Francisco Leal pointed out that junior faculty are unsure how teaching will be evaluated within P&T process. He added that there needs to be clarification about how teaching portfolios etc. will be evaluated.

Steve Newman stated that while responding to accreditation reviews, his department is taking into account recommendations/requirements of specific programs. Also, not all teaching is on campus - extension mission of Colorado State University and off campus outreach and teaching exists. This should be included in teaching evaluations.

Jenn Matheson suggested that defined expectations for early, mid- and late-career faculty members should be outlined and would be helpful. Dan Bush recognized that peer evaluations work and are very helpful in P&T reviews. He added that this would be easy to build into a department code and culture. Stephanie Clemons asked what about an external review of teaching from someone on campus but not in the department? Bush was supportive of that idea. Pedros-Gascon agreed that an external review person would be helpful, especially if he/she came unannounced to the lecture. Melinda Frye suggested that faculty who serve on curriculum committees of departments could serve as peer reviewers.

Torsten Eckstein noted that non-tenure track faculty need to be considered. In addition there is a need for a University wide standard on how to evaluate teaching importance.

Gallagher encouraged Faculty Council members to discuss these ideas with their departments. Gallagher added that Faculty Council should revisit this topic in some future time after some departmental "experiments" have taken place.

The Faculty Council meeting adjourned at 6:00 p.m.

Timothy Gallagher, Chair  
Mary Stromberger, Vice Chair  
Diane L. Maybon, Executive Assistant/Secretary

*ATTENDANCE*  
***BOLD INDICATES PRESENT AT MEETING***  
***UNDERLINE INDICATES ABSENT AT MEETING***

**Agricultural Sciences**

Stephen Koontz	Agricultural and Resource Economics
Denny Crews, excused	Animal Sciences
Deb Young	Bioagricultural Sciences & Pest Management
Steve Newman	Horticulture & Landscape Architecture
<u>TBD</u>	<u>Soil and Crop Sciences</u>
Dana Hoag	College-at-Large
Andrew Norton	College-at-Large
Kelly Curl	College-at-Large

**Applied Human Sciences**

Molly Eckman	Design and Merchandising
Tracy Nelson-Ceschin	Health and Exercise Science
David Sampson	Food Science and Human Nutrition
Jenn Matheson	Human Development and Family Studies
Scott Glick	Construction Management
<u>Matthew Malcolm</u>	<u>Occupational Therapy</u>
<u>Sharon Anderson</u>	<u>School of Education</u>
Louise Quijana	School of Social Work
(Substitute for K. Bundy-Fazioli Spring 2013)	

**Business**

Suzanne Lowensohn	Accounting
Stephen Hayne	Computer Information Systems
Patricia Ryan	Finance and Real Estate
Jim McCambridge	Management
Kelly Martin	Marketing

**Engineering**

Russ Schumacher	Atmospheric Science
Brad Reisfeld	Chemical and Biological Engineering
Suren Chen	Civil and Environmental Engineering
A. Pezeshki	Electrical and Computer Engineering
(for Steve Reising)	
<u>Don Radford</u>	<u>Mechanical Engineering</u>
<u>Eric Maloney</u>	<u>College-at-Large</u>
Sudeep Pasricha	College-at-Large

**Liberal Arts**

Ann Magennis	Anthropology
(Substitute for Mary Van Buren Fall '12)	
A. Ryan for E. Moseman Art	
Elizabeth Williams	Communication Studies
David Mushinski	Economics
Michael Lundblad	English
Ernesto Sagas	Ethnic Studies
Antonio Pedros-Gascon	Foreign Languages and Literatures
Robert Gudmestad	History
<u>Cindy Christen</u>	<u>Journalism and Technical Communication</u>
Gary Moody	Music, Theater, and Dance
<u>Michael McCulloch</u>	<u>Philosophy</u>
Bradley MacDonald	Political Science
Ken Berry	Sociology

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Francisco Leal	College-at-Large
(Substitute for M. Vogl	Spring '13)
Kari Anderson	College-at-Large
(Substitute for A. Aoki	Fall '12)
Alex Bernasek	College-at-Large

### Natural Resources

Melinda Laituri	Ecosystem Science and Sustainability
Paul Doherty	Fish, Wildlife, and Conservation Biology
Yu Wei	Forest, Rangeland, and Watershed Stewardship
Sally Sutton	Geosciences
(Substitute S. Egenhoff)	
Stu Cottrell	Human Dimensions of Natural Resources

### Natural Sciences

Eric Ross	Biochemistry and Molecular Biology
David Steingraeber	Biology
John Wood	Chemistry
<u>Robert France</u>	<u>Computer Science</u>
<u>Iuliana Oprea</u>	<u>Mathematics</u>
Raymond Robinson	Physics
<u>Benjamin Clegg</u>	<u>Psychology</u>
Philip Chapman	Statistics
Ed DeLosh	College-at-Large
<u>Mike Steger</u>	<u>College-at-Large</u>
Roger Culver	College-at-Large
Carl Patton	College-at-Large

### Veterinary Medicine & Biomedical Sciences

<u>Scott Earley</u>	<u>Biomedical Sciences</u>
Daniel Smeak	Clinical Sciences
John Volckens	Environmental & Radiological Health Sciences
for John Rosecrance	
Gary Mason	Microbiology, Immunology and Pathology
Terry Nett	College-at-Large
<u>Jeffrey Wilusz</u>	<u>College-at-Large</u>
C. W. Miller	College-at-Large
Alan Schenkel	College-at-Large
Susan Kraft	College-at-Large
William Hanneman	College-at-Large
Ron Tjalkens	College-at-Large

### University Libraries

<u>Michelle Wilde</u>	<u>Libraries</u>
(Substitute for N. Hunter	
<u>Fall '12)</u>	
Louise Feldmann	At-Large

### Officers

Tim Gallagher	Chair, Faculty Council
Mary Stromberger	Vice Chair, Faculty Council
Carole Makela	BOG Faculty Representative
Diane Maybon	Executive Assistant/Secretary
Lola Fehr	Parliamentarian

***Ex Officio Voting Members*** (\*Indicates Elected Member of Faculty Council)

<u>Don Estep, Chair</u>	<u>Committee on Faculty Governance</u>
<u>Susan LaRue, Chair</u>	<u>Committee on Intercollegiate Athletics</u>
<u>Jerry Magloughlin, Chair</u>	<u>Committee on Libraries</u>
<u>David Greene, Chair</u>	<u>Committee on Responsibilities &amp; Standing of Academic Faculty</u>
<u>Mark Zabel, Chair</u>	<u>Committee on Scholarship Research and Graduate Education</u>
<u>Melinda Frye, Chair</u>	<u>Committee on Scholastic Standards</u>
<u>Jeff Wilusz, Chair*</u>	<u>Committee on Strategic and Financial Planning</u>
<u>Stephanie Clemons, Chair</u>	<u>Committee on Teaching and Learning</u>
<u>Eric Prince, Chair</u>	<u>Committee on University Programs</u>
<u>Howard Ramsdell, Chair</u>	<u>University Curriculum Committee</u>

***Ex Officio Non-Voting Members***

<u>Jennifer Aberle, Chair</u>	<u>Committee on Special and Temporary Faculty</u>
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***Ex-Officio Non-Elected Non-Voting Members***

<u>Anthony Frank</u>	<u>President</u>
<u>Rick Miranda</u>	<u>Provost/Executive Vice President</u>
<u>Brett Anderson</u>	<u>Vice President for Advancement</u>
<u>Mary Ontiveros</u>	<u>Vice President for Diversity</u>
<u>Lou Swanson</u>	<u>Vice Provost for Engagement/Director of Extension</u>
<u>Robin Brown</u>	<u>Vice President for Enrollment and Access</u>
<u>Dan Bush</u>	<u>Vice Provost for Faculty Affairs</u>
<u>Jodie Hanzlik</u>	<u>Dean Graduate School</u>
<u>Patrick Burns</u>	<u>Vice President for Information Technology/Dean Libraries</u>
<u>Jim Cooney</u>	<u>Vice Provost for International Affairs</u>
<u>Tom Milligan</u>	<u>Vice President Public Affairs</u>
<u>Bill Farland</u>	<u>Vice President for Research</u>
<u>Blanche M. Hughes</u>	<u>Vice President for Student Affairs</u>
<u>Alan Lamborn</u>	<u>Vice Provost for Undergraduate Affairs</u>
<u>Amy Parsons</u>	<u>Vice President for University Operations</u>
<u>Craig Bevrouty</u>	<u>Dean, College of Agricultural Sciences</u>
<u>Jeff McCubbin</u>	<u>Dean, College of Applied Human Sciences</u>
<u>Ajay Menon</u>	<u>Dean, College of Business</u>
<u>Steve Abt</u>	<u>Interim Dean, College of Engineering</u>
<u>Ann Gill</u>	<u>Dean, College of Liberal Arts</u>
<u>Jan Nerger</u>	<u>Dean, College of Natural Sciences</u>
<u>Mark Stetter</u>	<u>Dean, College of Veterinary Medicine and Biomedical Sciences</u>
<u>Joyce Berry</u>	<u>Dean, Warner College of Natural Resources</u>
<u>David Mornes</u>	<u>Chair, Administrative Professional Council</u>

## MEMORANDUM

DATE: September 11, 2012

TO: Tim Gallagher, Chair, Faculty Council

FROM: Howard Ramsdell, Chair, University Curriculum Committee

SUBJECT: Proposed Changes in Curriculum –

**CURRICULAR REQUESTS – AUGUST 24, 2012**

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

NT-O, offered as nontraditional, online course.

The following curricular requests were approved.

<b>New Courses</b>	<b>Effective Date</b>
<b>ATS 640 03(2-3-0). Synoptic Meteorology.</b> F. Prerequisite: ATS 601 or concurrent registration. Synoptic-scale weather systems; moist and dry atmospheric variables; static stability; vertical motion; fronts; cyclones and anticyclones.	Fall Semester 2013
<b>ATS 641 03(2-3-0). Mesoscale Meteorology.</b> S. Prerequisite: ATS 640. Mesoscale weather systems; mesoanalysis techniques; upper- and low-level jets; instabilities; dynamics of convective storms; organized convection.	Spring Semester 2013
<b>CIVE 301 01(0-3-0). Fluid Mechanics Laboratory.</b> F, S. Prerequisite: CIVE 300 or concurrent registration. Fluid properties; statics, kinematics, and dynamics of fluid motion including viscous and gravitational effects.	Spring Semester 2013
<b>CIVE 305 03(2-2-0). Intermediate AutoCAD.</b> F. Prerequisite: CIVE 103. Creating layouts and templates, objects, graphic patterns and symbols, inserting and managing external references, and creating isometric drawings.	Fall Semester 2013
<b>CIVE 445 03(3-0-0). Sustainable Water and Waste Management.</b> S. Prerequisite: MATH 141 or MATH 155 or MATH 160; CHEM 108 or CHEM 113. The science, engineering, and policy behind sustainable water and waste practices. Sustainable urban water and wastewater management.	Spring Semester 2013
<b>CIVE 478 03(3-0-0). Transportation Engineering.</b> F. Prerequisite: CIVE 261; CIVE 303; CIVE 367. Principles of highway engineering, transportation engineering, and bridge engineering with a focus on design.	Fall Semester 2013
<b>ENGR 550/MATH 550 03(3-0-0).</b> F, S. Prerequisite: MATH 340 or MATH 345 or MATH 530. Finite elements, finite differences, spectral methods, method of lines, conservation laws; stability and convergence analysis for PDEs.	Spring Semester 2013
<b>°FW 475 03(3-0-0). Conservation Decision Analysis.</b> S. Prerequisite: MATH 155 or MATH 160; STAT 301; an ecology class; junior or senior standing. Structured approaches to conservation and management of vertebrates; articulating objectives, developing management options, and predicting outcomes.	Spring Semester 2013

**HIST 467 03(3-0-0). Modern Jewish History.** S. Prerequisite: HIST 101 or HIST 150 or HIST 151 or HIST 171. Spring Semester 2013

Political, social, cultural and economic dimensions of modern Jewish history from both a regional and global perspective.

**SOWK 553 03(2-0-1). Multi-Party Conflict Resolution.** F, S, SS. Prerequisite: SOWK 551. Spring Semester 2013

Theories, models, and skills required for design and guidance of multi-party conflict resolution in group, community and organizational settings. (NT-O)

[Approved as both a new traditional and new nontraditional online course.]

## Major Change to Courses

## Effective Date

**AHS 300 03(3-0-0). Research in Applied Professions, change to:**

Spring Semester 2013

**SOWK 300 03(3-0-0). Research in Applied Professions.** F, S, SS. Prerequisite: Completion of AUCC 1B mathematics requirement.

Application of social science research methodology to applied professions including problem formulation, research design, and data collection.

**CIVE 300 04(3-3-0). Fluid Mechanics, change to:**

Spring Semester 2013

**CIVE 300 03(3-0-0). Fluid Mechanics.** F, S. Prerequisite: CIVE 261; MATH 340 or concurrent registration; MECH 237 or concurrent registration or MECH 337 or concurrent registration.

Fluid properties; statics, kinematics, and dynamics of fluid motion including viscous and gravitational effects.

**CIVE 576 03(2-2-0). Engineering Applications of GIS and GPS, change to:**

Fall Semester 2013

**CIVE 576 03(2-2-0). Engineering Applications of GIS and GPS.** F.

Integration of GPS and GIS in the planning and decision making process, application to case study. (NT-O)

[Approved as a nontraditional online course.]

**CS 430 04(3-2-0). Database Systems, change to:**

Spring Semester 2013

**CS 430 04(3-2-0). Database Systems.** S. Prerequisite: CS 314 with a C or better or CS 370 with a C or better.

Database analysis, design, administration, implementation, hierarchical, network relational models; data sublanguages; query facilities. (NT-O)

**ECON 372 03(3-0-0). History of Economic Institutions and Thought, change to:**

Spring Semester 2013

**ECON 372 03(3-0-0). History of Economic Institutions and Thought.** F, S. Prerequisite: AREC 202 or ECON 101 or ECON 202.

Origins and development of capitalist institutions including contemporary issues of alienation, loss of community, and changing values. (NT-O)

[Approved for substantive content change.]

**ECON 463 03(3-0-0). Regional Economics—Tools/Analysis/Policy, change to:**

Spring Semester 2013

**ECON 463 03(3-0-0). Regional Economics—Tools/Analysis/Policy.** F, S, SS. Prerequisite: ECON 306.

Introduction to economic importance of location for firms, consumers, and policy makers. Basic tools, applications, and student research. (NT-O)

[Approved as a nontraditional online course.]



FSHN 696A-D Var. Group Study, **change to:**

Fall Semester 2013

**FSHN 696A-D Var. Group Study.** F, S, SS.

A) Food science. B) Nutrition. C) Dietetics. 01(0-0-1). F, S. Prerequisite: Admission to the GPIdea online M.S. in Dietetics. (NT-O) D) Exercise and nutrition.

[Subtopic C added and approved as a nontraditional online course.]

JTC 301 03(2-0-1). Business Communication, **change to:**

Spring Semester 2013

**JTC 301 03(2-0-1). Corporate and Professional Communication.** F, S. Prerequisite: CO 150 or HONR 193.

Principles and practice of effective corporate communication with emphasis on written professional reports. (NT-O)

MATH 550 03(3-0-0). Intro to Numerical Methods for PDEs, **change to:**

Spring Semester 2013

**MATH 550/ENGR 550 03(3-0-0). Numerical Methods in Science and Engineering.** F, S. Prerequisite: MATH 340 or MATH 345 or MATH 530.

Finite elements, finite differences, spectral methods, method of lines, conservation laws; stability and convergence analysis for PDEs.

SOC 320 03(3-0-0). Population-Natural Resources and Environment, **change to:**

Spring Semester 2013

**SOC 320 03(3-0-0). Population-Natural Resources and Environment.** F. Prerequisite: SOC 100 or SOC 105.

Population studies; world growth patterns and their relationship to natural resources and environment. (NT-O)

[Approved as a nontraditional online course.]

SOC 352 03(3-0-0). Criminology, **change to:**

Spring Semester 2013

**SOC 352 03(3-0-0). Criminology.** F, S, SS. Prerequisite: SOC 100 or SOC 105.

Crime in contemporary society; behavioral, causation, prevention, and justice issues. (NT-O)

[Approved as a nontraditional online course.]

SOC 372 03(3-0-0). Sociology of Deviance, **change to:**

Spring Semester 2013

**SOC 372 03(3-0-0). Sociology of Deviance.** F, S, SS. Prerequisite: SOC 100 or SOC 105.

Description, comparison, and analysis of theories and research of deviance. (NT-O)

[Approved as a nontraditional online course.]

SOWK 371E 03(3-0-0). Social Work with Selected Populations: Social Gerontology, **change to:**

Fall Semester 2013

**SOWK 371E 03(3-0-0). Social Work with Selected Populations: Social Gerontology.** F, S, SS. Prerequisite: HDFS 101

Application of practice processes with selected populations. E) Social gerontology. (NT-O)

[Approved as a nontraditional online course.]

SOWK 551 03(1-0-2). Fundamentals of Mediation, **change to:**

Spring Semester 2013

**SOWK 551 03(1-0-2). Fundamentals of Mediation.** F, S, SS. Prerequisite: Bachelor's degree.

Knowledge and skills essential to the successful application of mediation for a wide variety of interpersonal conflicts. (NT-O)

[Approved as a nontraditional online course.]

**SOWK 552 03(1-0-2). Conflict Management in Healthcare Settings, change to:** Spring Semester 2013

**SOWK 552 03(1-0-2). Conflict Management: Health and Elder Care.** F, S, SS. Prerequisite: SOWK 551.

Knowledge, values, and skills necessary for the practice of conflict resolution in health care and elder care settings. (NT-O)

[Approved as a traditional course.]

**SOWK 554 03(1-0-2). Conflict Resolution in the Workplace, change to:** Spring Semester 2013

**SOWK 554 03(1-0-2). Conflict Resolution in the Workplace.** F, S, SS. Prerequisite: SOWK 551.

Knowledge, values, and skills necessary for the practice of conflict resolution in the workplace. (NT-O)

[Approved as a traditional course.]

**SOWK 560 03(2-0-1). Social Work Practice in Schools, change to:** Spring Semester 2013

**SOWK 560 03(2-0-1). Social Work Practice in Schools.** S, SS. Prerequisite: M.S.W. or enrollment in M.S.W. program.

Knowledge and skills essential to practice of social work in educational settings. (NT-O)

[Approved as a nontraditional online course.]

## CURRICULAR REQUESTS – AUGUST 31, 2012

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

NT-O, offered as nontraditional, online course.

The following curricular requests were approved.

New Courses	Effective Date
<b>CIVE 356 01(0-3-0). Geotechnical Engineering Laboratory.</b> F, S. Prerequisite: CIVE 355 or concurrent registration. Laboratory to demonstrate standard methods of soils testing, methods of data collection, analysis of results.	Spring Semester 2013
<b>FTEC 210 03(2-2-0). Science of Food Fermentation.</b> F. Prerequisite: CHEM 107 or CHEM 111; LIFE 205 or MIP 300. Science, history, culture, gastronomy, safety, health, and nutrition aspects of fermented foods and beverages.	Fall Semester 2013
<b>FTEC 350 02(2-0-0). Fermentation Microbiology.</b> S. Prerequisite: CHEM 245 or FTEC 210 or LIFE 206 or MIP 302. Integration of fermentation science, microbiology, and chemistry.	Spring Semester 2014
<b>FTEC 360 03(1-4-0). Brewing Processes.</b> F. Prerequisite: CHEM 245; FTEC 210. Influence of raw material selection, malting, mashing, boiling, and fermentation on quality of beverages.	Fall Semester 2014
<b>FTEC 440 02(2-0-0). Refining and Packaging Technology.</b> S. Prerequisite: FTEC 360. Science, technology and management of refining and packaging.	Spring Semester 2015
<sup>°</sup> <b>FTEC 465 02(2-0-0). Food Production Management.</b> F. Prerequisite: FTEC 360. Production, operation, and management techniques used in the food industry at company, local and international levels.	Fall Semester 2015
Major Change to Courses	Effective Date
<b>CIVE 355 04(3-3-0). Introduction to Geotechnical Engineering, change to:</b> <b>CIVE 355 03(3-0-0). Introduction to Geotechnical Engineering.</b> F, S. Prerequisite: CIVE 360. Soil behavior, stress-strain and strength properties, application to earth pressure, slope and foundation problems.	Spring Semester 2013
<b>CS 453 04(3-0-1). Introduction to Compiler Construction, change to:</b> <b>CS 453 04 (3-0-1). Introduction to Compiler Construction.</b> S. Prerequisite: CS314 with a C or better. Functional components of a compiler: modules, interfaces, lexical and syntax analysis, error recovery, resource allocation, code generation. (NT-O) [Approved as a nontraditional online course.]	Spring Semester 2013
<b>WR 304 03(3-0-0). Principles of Watershed Management, change to:</b>	Spring Semester 2013

**WR 304 03(3-0-0). Sustainable Watersheds.** F, S. Prerequisite: Completion of the AUCC 1B mathematics requirement.

Effects of climate, land use, and water use on the sustainability of water quantity and quality.

## Major Changes to Curricula

Warner College of Natural Resources  
Department of Forest and Rangeland Stewardship  
Major in Natural Resources Management

Effective Spring 2013

(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>
<b>FRESHMAN</b>			
BZ 110	Principles of Animal Biology	3	3A
BZ 120	Principles of Plant Biology	4	3A
CHEM 107 <sup>P</sup>	Fundamentals of Chemistry	4	3A
CHEM 108 <sup>P</sup>	Fundamentals of Chemistry Laboratory	1	3A
MATH 117 <sup>P</sup>	College Algebra in Context I	1	1B
MATH 118 <sup>P</sup>	College Algebra in Context II	1	1B
MATH 125 <sup>P</sup>	Numerical Trigonometry	1	1B
SPCM 200	Public Speaking	3	2A
	Arts/humanities <sup>1</sup>	6	3B
	Global and cultural awareness <sup>2</sup>	3	3E
	Electives	2	
	TOTAL	29-30	
<b>SOPHOMORE</b>			
CO 150 <sup>P</sup>	College Composition	3	1A
ECON 202 <sup>P</sup>	Principles of Microeconomics	3	3C
<del>F 210<sup>P</sup></del>	<del>Forest Ecogeography</del>	<del>3</del>	
F 310 <sup>P</sup> /	<u>Forest and Rangeland Ecogeography</u>	<u>3</u>	
RS 310 <sup>P</sup>			
F 312 <sup>P</sup>	<u>Dendrology Lab</u>	<u>1</u>	
	<b>OR</b>		
RS 312 <sup>P</sup>	<u>Rangeland Plant Identification Lab</u>	<u>1</u>	
GEOL 120	Exploring Earth: Physical Geology	3	3A
	<b>OR</b>		
GEOL 124	Geology of Natural Resources	3	3A
GEOL 121 <sup>P</sup>	Introductory Geology Laboratory	1	3A
LAND 220 <sup>P</sup> /	Fundamental of Ecology	3	
LIFE 220 <sup>P</sup>			
	<b>OR</b>		
LIFE 320 <sup>P</sup>	Ecology	3	
NR 220 <sup>P</sup>	Natural Resources Ecology and Measurements	5	
SOCR 240 <sup>P</sup>	Introductory Soil Science	4	
STAT 301 <sup>P</sup>	Introduction to Statistical Methods	3	
	<b>OR</b>		
STAT 307 <sup>P</sup>	Introduction to Biostatistics	3	
	Minor <sup>3</sup>	3	
	TOTAL	<u>34-32</u>	
<b>JUNIOR</b>			
	<i>Select one course from the following:</i>		
BZ 471 <sup>P</sup>	Stream Biology and Ecology	3	
F 311 <sup>P</sup>	Forest Ecology	3	
RS 351 <sup>P</sup>	Wildland Ecosystems in a Changing World	3	
	<i>Select one course from the following:</i>		
CO 300 <sup>P</sup>	Writing Arguments	3	2
CO 301B <sup>P</sup>	Writing in the Disciplines-Science	3	2

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
JTC 300 <sup>P</sup>	Professional and Technical Communication	3	2
AREC 340 <sup>P</sup> / ECON 340 <sup>P</sup>	Introduction to Economics of Natural Resources	3	
<b>OR</b>			
F 322 <sup>P</sup>	Economics of the Forest Environment	3	
NR 319 <sup>P</sup>	Geospatial Application in Natural Resources	4	
NR 320	Natural Resources History and Policy	3	3D
NR 326 <sup>P</sup>	Forest Vegetation Management	3	
	Minor <sup>3</sup>	6	
	Electives	43	
	TOTAL	<u>29</u>	<u>28</u>
<b>SENIOR</b>			
<i>Select two courses from the following:</i>			
FW 260 <sup>P</sup>	Principles of Wildlife Management	3	
RS 300 <sup>P</sup>	Rangeland Conservation and Stewardship	3	
	Social and political dimensions <sup>4</sup>	3	
NR 400 <sup>P</sup>	Public Relations in Natural Resources	3	4A, 4B
NR 420 <sup>P</sup>	Integrated Ecosystem Management	4	4C
NR 421 <sup>P</sup>	Natural Resources Sampling	3	
WR 304	Principles of Watershed Management	3	3A
<b>OR</b>			
WR 416 <sup>P</sup>	Land Use Hydrology	3	
	Minor <sup>3</sup>	12	
	Summer field experience <sup>5</sup>	0	
	TOTAL	<u>31</u>	

**PROGRAM TOTAL = 120-121 credits**

<sup>P</sup> 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.

<sup>1</sup> 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.

<sup>2</sup> Select from the list of courses in category 3E in the AUCC.

<sup>3</sup> Students must complete the requirements for a minor in any discipline, or the interdisciplinary studies program in either conservation biology or environmental affairs.

<sup>4</sup> Select one of the following courses: HIST 355, PHIL 345, POLS 361, SOC 320.

<sup>5</sup> Each student is required to complete a summer of acceptable field experience.

**Major in Rangeland Ecology  
Conservation and Management Concentration**

**Effective Spring 2013**

(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>
<b>FRESHMAN</b>			
BZ 120	Principles of Plant Biology	4	3A
CHEM 107 <sup>P</sup>	Fundamentals of Chemistry <sup>1</sup>	4	3A
CHEM 108 <sup>P</sup>	Fundamentals of Chemistry Laboratory	1	3A
CO 150 <sup>P</sup>	College Composition	3	1A
MATH 141 <sup>P</sup>	Calculus in Management Sciences <sup>1</sup>	3	1B
	Arts and Humanities <sup>2</sup>	6	3B
	Global and Cultural Awareness <sup>3</sup>	3	3E
	Electives	6	
	TOTAL	<u>30</u>	
<b>SOPHOMORE</b>			
AREC 202 <sup>P</sup>	Agricultural and Resource Economics <sup>1</sup>	3	3C
<b>OR</b>			
ECON 202 <sup>P</sup>	Principles of Microeconomics <sup>1</sup>	3	3C

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
BZ 223 <sup>P</sup>	Plant Identification	3	
FW 104	Wildlife Ecology and Conservation	3	
<b>OR</b>			
NR 300 <sup>P</sup>	Biological Diversity	3	
LIFE 320 <sup>P</sup>	Ecology	3	
NR 220 <sup>P</sup>	Natural Resources Ecology and Measurements <sup>1</sup>	5	
NRRT 262	Principles of Environmental Communication	3	
<b>OR</b>			
SPCM 200	Public Speaking	3	
RS 300 <sup>P</sup>	Rangeland Conservation and Stewardship	3	
SOCR 240 <sup>P</sup>	Introductory Soil Science	4	
STAT 301 <sup>P</sup>	Introduction to Statistical Methods <sup>1</sup>	3	
<b>OR</b>			
STAT 307 <sup>P</sup>	Introduction to Biostatistics <sup>1</sup>	3	
TOTAL		30	
<b>JUNIOR</b>			
BSPM 308 <sup>P</sup>	Ecology and Management of Weeds	3	
BZ 440 <sup>P</sup>	Plant Physiology	3	
<i>Select one course from the following:</i>			
CO 300 <sup>P</sup>	Writing Arguments	3	2
CO 301B <sup>P</sup>	Writing in the Disciplines—Sciences	3	2
JTC 300 <sup>P</sup>	Professional and Technical Communication	3	2
F 310 <sup>P</sup> /	<u>Forest and Rangeland Ecogeography</u>	3	
RS 310 <sup>P</sup>			
NR 319 <sup>P</sup>	Geospatial Applications in Natural Resources	4	
<b>OR</b>			
NR 322	Introduction to Geographic Information Systems	4	
NR 320	Natural Resources History and Policy	3	3D
RS 312 <sup>P</sup>	<u>Rangeland Plant Identification Lab</u>	1	
RS 329 <sup>P</sup>	Rangeland Assessment	1	
RS 331 <sup>P</sup>	<del>Wildland Plants and Plant Communities</del>	3	
RS 351 <sup>P</sup>	Wildland Ecosystems in a Changing World	3	4A, 4B
RS 432 <sup>P</sup>	Rangeland Measurements and Monitoring	2	
SOCR 440	Pedology	4	
<b>OR</b>			
SOCR 442	Forest and Range Soils	3	
WR 304	Principles of Watershed Management	3	3A
TOTAL		31-32	
<b>SENIOR</b>			
ANEQ 472 <sup>P</sup>	Sheep Systems	3	
<b>OR</b>			
ANEQ 478 <sup>P</sup>	Beef Systems	3	
AREC 305 <sup>P</sup>	Agricultural and Resource Enterprise Analysis	3	
<i>Select one course from the following:</i>			
BZ 353 <sup>P</sup> /	Global Change Ecology, Impacts and Mitigation	3	
NR 353 <sup>P</sup>			
BZ 450 <sup>P</sup>	Plant Ecology	4	
BZ 471 <sup>P</sup>	Stream Biology and Ecology	3	
LAND 444 <sup>P</sup>	Ecology of Landscapes	3	
<i>Select one course from the following:</i>			
NR 400 <sup>P</sup>	Public Relations in Natural Resources	3	
NRRT 360 <sup>P</sup>	Group Decision Making	3	
NRRT 362 <sup>P</sup>	Environmental Conflict Management	3	
NR 420 <sup>P</sup>	Integrated Ecosystem Management	4	4C
RS 452 <sup>P</sup>	Rangeland Herbivore Ecology and Management	3	4B
RS 478 <sup>P</sup>	Ecological Restoration	3	
Electives <sup>4</sup>		5-7	
		4-6	



<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
TOTAL		28-29	
<b>PROGRAM TOTAL = 120 credits</b>			

<sup>P</sup> 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.

<sup>1</sup> MATH 117, MATH 118, and MATH 124 are not part of this major, but are enforced prerequisites for AREC 202, CHEM 107, ECON 202, FW 200, MATH 141, NR 220, STAT 301, and STAT 307.

<sup>2</sup> Select two courses from the list of courses in category 3B of the AUCC. Only 3 of the 6 credits required for Arts and Humanities may come from the intermediate (L\*\*\* 200 and L\*\*\* 201) foreign language courses.

<sup>3</sup> Select from the list of courses in category 3E in the AUCC.

<sup>4</sup> Select enough credits to bring the program total to 120 credits.

**Major in Rangeland Ecology  
Range and Forest Management Concentration**

**Effective Spring 2013**

(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>
<b>FRESHMAN</b>			
BZ 120	Principles of Plant Biology	4	3A
CHEM 107 <sup>P</sup>	Fundamentals of Chemistry <sup>1</sup>	4	3A
CHEM 108 <sup>P</sup>	Fundamentals of Chemistry Laboratory	1	3A
CO 150 <sup>P</sup>	College Composition	3	1A
MATH 141 <sup>P</sup>	Calculus in Management Sciences <sup>1</sup>	3	1B
	Arts/humanities <sup>2</sup>	6	3B
	Global and cultural awareness <sup>3</sup>	3	3E
	Electives	3	
	TOTAL	27	
<b>SOPHOMORE</b>			
BZ 223 <sup>P</sup>	Plant Identification	3	
F 210 <sup>P</sup>	Forest Ecogeography	3	
F 230	Forestry Field Measurements	2	
RS 300 <sup>P</sup>	Rangeland Conservation and Stewardship	3	
LIFE 320 <sup>P</sup>	Ecology	3	
AREC 202 <sup>P</sup>	Agricultural and Resource Economics	3	3C
<b>OR</b>			
ECON 202 <sup>P</sup>	Principles of Microeconomics	3	3C
SOCR 240 <sup>P</sup>	Introductory Soil Science	4	
SPCM 200	Public Speaking	3	
STAT 301 <sup>P</sup>	Introduction to Statistical Methods	3	
<b>OR</b>			
STAT 307 <sup>P</sup>	Introduction to Biostatistics <sup>1</sup>	3	
NR 220 <sup>P</sup>	Natural Resources Ecology and Measurements	5	
	Electives <sup>5</sup>	1	
	TOTAL	33	
<b>JUNIOR</b>			
NR 320	Natural Resources History and Policy	3	3D
<i>Select one of the following:</i>			
JTC 300 <sup>P</sup>	Professional and Technical Communication	3	2
CO 301B <sup>P</sup>	Writing in the Disciplines—Science	3	2
CO 300 <sup>P</sup>	Writing Arguments	3	2
NR 319 <sup>P</sup>	Geospatial Applications in Natural Resources	4	
<b>OR</b>			
NR 322	Introduction to Geographic Information Systems	4	
F 310 <sup>P</sup>	Forest and Rangeland Ecogeography	3	
RS 310 <sup>P</sup>			

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
F 311 <sup>P</sup>	Forest Ecology	3	
F 321 <sup>P</sup>	Forest Biometry	3	
F 322 <sup>P</sup>	Economics of the Forest Environment	3	
F 325 <sup>P</sup>	Silviculture	3	
WR 304	Principles of Watershed Management	3	3A
RS 312 <sup>P</sup>	<u>Rangeland Plant Identification Lab</u>	1	
RS 329 <sup>P</sup>	Rangeland Assessment	1	
RS 331 <sup>P</sup>	<del>Rangeland Ecogeography</del>	3	
RS 351 <sup>P</sup>	Wildland Ecosystems in a Changing World	3	4A, 4B
	TOTAL	32	

#### SENIOR

ANEQ 472 <sup>P</sup>	Sheep Systems	3	
	<b>OR</b>		
ANEQ 478 <sup>P</sup>	Beef Systems	3	
NR 420 <sup>P</sup>	Integrated Ecosystem Management	4	4C
RS 432	Rangeland Measurements and Monitoring	2	
RS 452	Rangeland Herbivore Ecology and Management	3	4B
	<i>Select one from the following:</i>		
BZ 440 <sup>P</sup>	Plant Physiology	3	
F 324 <sup>P</sup>	Fire Effects and Adaptations	3	
SOCR 440	Pedology	4	
SOCR 442	Forest and Range Soils	3	
SOCR 478 <sup>P</sup>	Environmental Soil Science	3	
	<i>Select one from the following:</i>		
BSPM 308 <sup>P</sup>	Ecology and Management of Weeds	3	
BSPM 365 <sup>P</sup>	Integrated Tree Health Management	4	
F 330 <sup>P</sup>	Timber harvesting and the Environment	3	
F 421 <sup>P</sup>	Forest Stand Management	4	
F 422 <sup>P</sup>	Quantitative Methods in Forest Management	3	
F 424 <sup>P</sup>	Wildland Fire Behavior and Management	3	
RS 478 <sup>P</sup>	Restoration Ecology	3	
	Electives <sup>4</sup>	5-7	
	TOTAL	4-6	
		28	

**PROGRAM TOTAL = 120 credits**

<sup>P</sup> 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.

<sup>1</sup> MATH 117, MATH 118, and MATH 124 are not included in this major, but are enforced prerequisites for CHEM 107, MATH 141, NR 220, STAT 301, and STAT 307.

<sup>2</sup> 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.

<sup>3</sup> Select from the list of courses in category 3E in the AUCC.

<sup>4</sup> 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).

### All-University Core Curriculum (AUCC)

#### Category 4

A request by the Department of Food Science and Human Nutrition to include FTEC 350, Fermentation Microbiology, in category 4B of the AUCC for the major in Fermentation Science and Technology was approved. The recommended effective date, subject to approval by Faculty Council, is Spring Semester 2014.

## MEMORANDUM

DATE: October 2, 2012  
TO: Timothy Gallagher, Chair Faculty Council  
FROM: Rick Miranda, Provost/Executive Vice President  
SUBJECT: Approval of Fall Degree Candidates - December 2012 Commencement

Rick Miranda, Provost/Executive Vice President, MOVES THAT FACULTY COUNCIL APPROVE THE CANDIDATES WHO MEET THE DEGREE REQUIREMENTS FOR GRADUATION AT THE CLOSE OF THE 2012 FALL SEMESTER.

**BALLOT- OCTOBER 2, 2012**  
**Graduate and Undergraduate Student Positions on Faculty Council Standing Committees (One-Year Term)**  
**Nominations from the Committee on Faculty Governance**

**Committee on Intercollegiate Athletics**

KEITH PATTON	Undergraduate Student Representative	2013
DANIEL HEMPHILL	Graduate Student Representative	2013

**Committee on Libraries**

CALEB NAGEL	Undergraduate Student Representative	2013
JAMIE BARRINGER	Graduate Student Representative	2013

**Committee on Scholarship, Research, and Graduate Education**

LAUREN POTTER	Graduate Student Representative	2013
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**Committee on Strategic and Financial Planning**

TBD	Undergraduate Student Representative	2013
DOUGLAS ORTEGO	Graduate Student Representative	2013

**Committee on Teaching and Learning**

BECKY EWING	Undergraduate Student Representative	2013
LIESEL HANS	Graduate Student Representative	2013

**Committee on University Programs**

CALEB NAGEL	Undergraduate Student Representative	2013
KATHERINE ZAUNBRECHER	Graduate Student Representative	2013

**University Curriculum Committee**

NIGEL DANIELS	Undergraduate Student Representative	2013
ANDREW BONDI	Graduate Student Representative	2013