

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 6, 2015– 4:00 p.m. – A201 Clark Building

I. Faculty Council Agenda – October 6, 2015 – A201 Clark Building – 4:00 p.m.

A. ANNOUNCEMENTS

1. Next Faculty Council Meeting – November 3, 2015 – A201 Clark Building - 4 p.m.
2. Faculty Council photograph
3. Executive Committee Meeting Minutes located on FC website – August 18, 2015 (Amended); August 25, 2015 and September 8, 2015.

(<http://facultycouncil.colostate.edu/faculty-council-meeting-dates-agendas-minutes/>)

4. Semester at Sea Global Teaching Scholars

B. MINUTES TO BE APPROVED

1. Faculty Council Meeting Minutes – September 1, 2015 (pp.1-18)

C. UNFINISHED BUSINESS

D. REPORTS TO BE RECEIVED

1. President – Tony Frank
2. Provost/Executive Vice President – Rick Miranda
3. Faculty Council Chair – Mary Stromberger
4. Board of Governors Faculty Representative – Paul Doherty
5. Faculty Council Standing Committee 2014-15 Annual Reports
 - a. Committee on Libraries (p.19)

E. CONSENT AGENDA

1. Approval of Degree Candidates – Fall 2015 (p. 20)
2. UCC Minutes – August 21 and 28, 2015; September 4, 2015 (pp. 21-47)

F. ACTION ITEMS

1. Elections – Undergraduate and Graduate Student Representatives – Faculty Council Standing Committees – CoFG (p. 48)
2. Elections - University Committee Nominations – CoFG (p. 49)
3. Request new major in Human Dimensions of Natural Resources, B.S. – UCC (pp. 50-61)
4. Request new Master of Communications and Media Management, Plan C – UCC (pp. 62-67)
5. Request by the College of Liberal Arts and the College of Engineering to change the Arts and Humanities and Engineering Science concentration and Social Sciences and Engineering Science concentration, to a dual degree with a major in Interdisciplinary Liberal Arts (B.A. degree) and a major in Engineering Science (B.S. degree) – UCC (pp. 68-79)
6. Request to change the International Engineering and International Studies concentration, to a dual degree with a major in Engineering Science (B.S. degree) and a major in International Studies (B.A. degree) – UCC (pp. 80-94)

G. DISCUSSION

1. Shared governance and service recognition

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.

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 Rita Knoll, ext 1-5693.

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

MINUTES
Faculty Council Meeting
Tuesday, September 1, 2015 – 4:00 p.m. – A201 Clark Building

CALL TO ORDER

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

ANNOUNCEMENTS

- A. Next Faculty Council Meeting – October 6, 2015 – A201 Clark Building – 4 p.m.

Stromberger announced that the next Faculty Council meeting would be held on October 6, 2015 at 4:00 p.m. in Room A201 Clark Building.

- B. Executive Committee Meeting Minutes located on FC website – April 28, 2015 (Amended); May 12, 2015 (Amended)
<http://facultycouncil.colostate.edu/faculty-council-meeting-dates-agendas-minutes/>

Stromberger announced that the minutes from the April 28 and May 12, 2015 Executive Committee meeting have been posted on the Faculty Council website.

- C. President's Fall Address and University Picnic – On the Oval – September 16, 2015 @ 11:30 a.m.

Stromberger announced the President's Fall Address and Picnic will be held on the Oval on September 16, 2015 at 11:30 a.m.

- D. Faculty Council – Location of Issues – Tracking List
E. 2015-16 Faculty Council Meeting Dates
F. Faculty Council Membership List 2015-16
G. Faculty Council Standing Committees Membership List
H. University Committees Membership List

Stromberger announced that items D-H can be found in the agenda packet. The membership lists are being updated as new names come forward. The most current list is always on our FC website. Stromberger added that the members on University Committees span Faculty, Admin Pros, and State Classified.

I. Parliamentary Motions – Quick Reference

J. Parliamentary Motions – What They Mean

Stromberger announced that Lola Fehr, Professional Registered Parliamentarian, updated the Parliamentary Motions – Quick Reference and What They Mean. Procedures will be explained as we move through our meetings. Following parliamentary procedures ensures our meetings are conducted in an orderly fashion.

K. CoRSAF – Proposed revisions to the *Academic Faculty and Administrative Professional Manual – D.2.1. – Benefits Committee*. (*Approved by Executive Committee on behalf of Faculty Council, May 12, 2015*). (Appendix A)

L. UCC Minutes – April 24, 2015; May 1, 2015 (*Approved by Executive Committee on Behalf of Faculty Council, May 12, 2015*). (Appendix A)

Stromberger announced that at the end of the year, if there are issues that are critical, these issues may be presented to Executive Committee and be approved on behalf of Faculty Council. This year, Executive Committee approved two action items on behalf of Faculty Council at their May 12, 2015 meeting. The UCC Minutes had items that needed to be approved for the Fall semester. Executive Committee also approved item K on behalf of Faculty Council.

M. Division of Continuing Education OnLine Plus name change to Division of Continuing Education Online.

Stromberger announced that Mike Palmquist, Division of Continuing Education, asked that this announcement be made to understand the new name. The branding name will be “CSU Online.”

N. New Center at CSU - The Center for the Study of Academic Labor (CSAL)

Stromberger announced CSAL’s mission is to stimulate research and artistry in adjunct faculty and tenure. An opening reception will be held in TILT 221 on September 9, 2015. More information can be found on the FC website if you would like to attend.

MINUTES TO BE APPROVED

A. Faculty Council Meeting Minutes – May 5, 2015

By unanimous consent, the May 5, 2015 Faculty Council meeting minutes were approved as distributed in the agenda packet. Minutes will be placed on the FC website.

UNFINISHED BUSINESS

A. Elections – Undergraduate and Graduate Student Representatives – Faculty Council Standing Committees – CoFG

Stromberger explained that election of students to Faculty Council Standing Committees is new business, not unfinished business. However, she asked that student elections occur at the same place in the agenda as elections of faculty to Faculty Council Standing and University Committees (unfinished business left over from last year). There were no objections to conducting all elections together.

Emily Moore, Committee on Faculty Governance, nominated, on behalf of the Committee on Faculty Governance, the following students to serve one-year terms, effective immediately, on Faculty Council Standing Committees.

BALLOT

September 1, 2015

Graduate and Undergraduate Student Positions on Faculty Council Standing Committees (One-Year Term)

<u>Committee on Libraries</u>		Term Expires
Kelsey Hatley	Graduate Student (English)	2016
<u>Committee on Scholarship, Research and Graduate Education</u>		
Anne Byrne	Graduate Student	2016
<u>Committee on Intercollegiate Athletics</u>		
Seth Butler	Graduate Student	2016

University Curriculum Committee

Tyler Siri Undergraduate 2016

Committee on Strategic and Financial Planning

Sam Laffey Undergraduate 2016

The nominated student representatives were elected to a one-year term beginning July 1, 2015 through June 30, 2016 on their respective standing committee.

B. Elections – Faculty – Faculty Council Standing Committees – CoFG University

Emily Moore, Committee on Faculty Governance, nominated, on behalf of the Committee on Faculty Governance, the following faculty to serve three-year terms, effective immediately, on the Faculty Council Standing Committees.

BALLOT

Academic Faculty Nominations to Faculty Council Standing Committees
 September 1, 2015

Committee on University Programs

JEFF COLLETT Engineering 2018
 (Nominated by Committee on Faculty Governance)

Committee on Scholarship, Research and Graduate Education

JOHNNY PLASTINI Liberal Arts 2018
 (Nominated by Committee on Faculty Governance)

Committee on Non-Tenure-Track Faculty

NATALIE OOI Natural Resources 2018

Committee on Strategic and Financial Planning

JOHN STRAYER Liberal Arts 2018

Stromberger asked if there were any nominations from the floor. Hearing none, Stromberger declared the nominations closed.

Collett, Plastini, Ooi and Strayer were unanimously elected to three-year terms for their respective committees, effective July 1, 2015.

C. Elections - University Grievance Panel - CoFG

BALLOT
University Committee Nominations
University Grievance Panel
September 1, 2015

<u>IULIANA OPREA</u>	Math	2018
(Nominated by Committee on Faculty Governance)		

Emily Moore, Committee on Faculty Governance, nominated, on behalf of the Committee on Faculty Governance, Iuliana Oprea for the University Grievance Panel.

Stromberger asked if there were any nominations from the floor. Hearing none, Stromberger declared the nominations closed.

Oprea was unanimously elected to a three-year term for the University Grievance Panel, effective July 1, 2015.

REPORTS TO BE RECEIVED

1. Provost/Executive Vice President –Rick Miranda
 - a. This summer, after a failed search, we turned our attention to Ajay Menon, who is now the new Dean for College of Agriculture. Ajay will be Dean for 2 or 3 years, until another search. Ag Day is also coming up this Saturday before the CSU football game.
 - b. Semester at Sea (SAS) had its first board meeting in Fort Collins. They will occupy a new building on Center Street, south of the Hilton. We will be a new academic partner with SAS. CSU will sponsor all curriculum/courses; all of the courses taught on SAS will be CSU-approved courses. Fall of 2016 will be the first voyage CSU will participate in. Lynn Johnson, CFO, and Rick Miranda will be CSU representatives on the Board. Loren Crabtree is CEO of the company currently. Loren was a previous CSU Provost.

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Hunter (Libraries): Will South Hampton be the port for debarkation for CSU?

Miranda: No, it is the embarkation point for the current voyage starting next week (Fall 2015 voyage). Embarkation points depend on the voyage, the ship will depart from different ports in different semesters.

- c. Search for Dean of CLA will start shortly.
- d. Enrollment: Students are back on campus. Move-in Day and RamWelcome went well and thanks to all, including faculty. We broke enrollment records. Largest freshmen class is historic high. Most pell eligible and first generation students than ever. Over 500 more students than last year. Year before was flat enrollment. Year before that 100 students. Over 2-3 year span; a couple hundred is a pretty manageable number. The demographics of high school numbers will be helping. We are finally seeing increasing numbers in high school graduates this year. The CSU enrollment increase is not primarily driven by residents from high school, but out-of-state and international students. We have more international students than ever before. Our Office of Admissions did a marvelous job. More students means more tuition dollars. It will be in the base budget for next year. Not every student is in every course and semester they want, but new sections were funded and opened.
- e. Cluster hiring in three areas: Aging, Microbiomes and Air quality and Health. Each cluster hiring process is being organized a bit differently.
- f. Budget issues at state level. It may be a tough year next year. The rhetoric at state level is to keep a lid on tuition. We've had resident undergraduate tuition raises in the 5-9% ranges the past several years; it is possible that for the next year this may quite lower. Two funding sources: state appropriations and student tuition. Next year, the state is not projecting generous funding at the higher education sector. The Tabor cap will start to be applied and this will constrain the available revenue. Now that the state has grown back, they expect to cap. Resident U/G tuition will be kept pretty much the same. Two funding sources: state appropriations and student tuition. Next year, the state is not projecting generous funding at the higher education sector. The Tabor caps the revenue. Now that the state has grown back, they expect to cap. There is now a lid on how much the state can spend. The CSU draft budget will show no increase or decrease at the moment. We will be planning (at the moment) to operate at the same state appropriations level as this year. Now if new enrollment comes in – higher enrollment – this will provide new resources. We want financial aid healthy. We want faculty salary raises. We want to make investments in increasing the quality of the institution (e.g. cluster hires). We have many things on our wish list. Miranda will have more precise numbers next FC meeting.

Gilkey (CVMBS): How does the state reconcile lack of restoration after the state made cuts in the last years?

Miranda: They don't even try to reconcile. They don't have a goal of restoring state budgets to previous high in higher education sector. Even if the state gave the same previous budget it doesn't address inflation that we have experienced.

Glick (Construction Management): Federal government – Dept of Ed – wants to encourage states and institutions to hold the line on tuition levels.

Ahola (College of Ag): If you don't have more funding from the state, how does CSU compensate?

Miranda: Net tuition from students. We collect tuition from all students at different levels. Then we give part of the money back in scholarships. Look at net tuition collected per student, there has been a healthy increase 5-8%. We can increase the instructional budgets and hire more faculty. That net tuition collected per student is about \$12,000. If we had 1,000 students, that would be an additional 12 million dollars. In general, about 2/3 is spent on academic side of house; about 1/3 is on facilities and other infrastructure.

- g. We have embarked on salary equity initiatives. We focused on full professors. This year, we are doing meetings with every college's executive committees to see if there is faculty who fall below the mean or who have opted in. We are starting with full professor women and then will proceed to full professor men. The second effort will use a committee, some outside CSU and some inside CSU, to take a look at longer range methodologies looking at salary equity issues moving forward. What model should be used? How to look at both the statistical analyses and individual cases? We can have equity and individuals may be treated unfairly. The committee was just finalized. Names will be published shortly. Questions?

Gilkey (CVMBS): My chair would be interested in the algorithm used.

Miranda: Your question is ill posed. There won't be an algorithm used for every individual. The data in our HR system (e.g. time since terminal degree) should not determine one's salary. It should be given according to merit and productivity. When you look at the statistical models used to identify means or regression lines for a population in a specific department, it is very often the case that the explanation for the dispersion in the salary should relate or correlate to productivity of the faculty member. We do have correlation data already collected re: productivity. But it is different in units across campus. This first round of full professors at institution has to be a conversation with the deans and chairs. There will be external eyes on each case as individual cases are reviewed.

Gilkey (CVMBS): Where will monies come if there are discrepancies?

Miranda: There are inequities over time. Usually, these are taken care of at the department levels. Sometimes, the Provost's Office will assist. This exercise will be split between departments and central funds.

Pedros-Gascon (Foreign Languages): How do we reconcile standard percentages across the board?

Miranda: We discourage "across the board" standard raises. Yet, when the numbers are really low, it is hard to have much dispersion. When salary raises are higher, more dispersion.

Pedros-Gascon (Foreign Languages): Did not do that last year.

Viney (APC Chair): With the committee created, will the salary equity question be applied to ALL employees, not just faculty?

Miranda: Initially we will focus on faculty, but we do hope that the methodologies suggested by the committee can be more widely applied. The criteria will be very different.

Miranda's report was received.

2. Faculty Council Chair – Mary Stromberger

Stromberger reported on her activities over the summer:

- a. Stromberger met weekly with Miranda to discuss shared governance issues. Improvements to recognition for service, communication and faculty engagement in budget and strategic planning were discussed. Stromberger charged the Committee on Responsibilities and Standing of Academic Faculty to form a task force to study service recognition over the year. The task force is charged with developing guidelines and policies to education unit heads on how to evaluate faculty service related to T & P and annual evaluations.
- b. Stromberger discussed with Miranda the desire of faculty to be more engaged in budget and vision planning. New reforms to the budget process will be made. Each SPARC is being reorganized and will include faculty representatives. There will be more participation of employee groups in the budget planning.
- c. Shared governance needs faculty involvement. We have committees that are seeking faculty membership, including the Employee Assistance Board and Parking Services committee. There is a new Affordable Housing Task Force. This task force is charged with looking at housing affordability issues. For example, how does housing

Affordability (and availability) in Fort Collins affect our ability to recruit and retain faculty? Recommendations will be formed.

- d. Stromberger met twice with the chairs of the Committee on Non-Tenure Track Faculty (NTTF) and Faculty Governance Committee. Their committees are working on proposals to increase participation of NTTF in shared governance, both at the department and university level.
- e. Stromberger met with communication experts to discuss how Faculty Council can better communicate with faculty and department heads. The Faculty Council website was re-designed and includes a pdf and web-based versions of the *Manual*. A quarterly newsletter will be developed that will highlight activities of standing committees. Stromberger will be communicating more with FC until we get to a system that is effective and efficient.
- f. Stromberger provided an update on the parking plan and the two-year hiatus. Stromberger and the chairs of Administrative Professional Council (Toni-Lee Viney) and Classified Personnel Council (Stacey Baumgarn) met with Lynn Johnson this summer, to keep the parking plan at the forefront. During the next two years, alternative plans need to be studied, vetted, and a final plan finalized for presentation to the Board of Governors. The study of alternative plans (tiered zones, sliding scale fee, etc.) needs to begin now so that there is time for open forums and discussion in the late spring/early fall 2016. A plan will need to go to the Board in spring 2017.
- g. Bullying policy and workplace violence policy updates: Revised drafts of the two policies were distributed by email to Faculty Council over the summer. Stromberger received thoughtful feedback from faculty, compiled the feedback and sent the summary to Bob Schur, office of Policy and Compliance, for a final draft. The general theme was that this is a good policy to have at CSU, but also Stromberger communicated to Bob that faculty are anxious about HOW these policies will be used to police individuals, including faculty. The revised policy had a lengthy list of examples of bullying that may be subjective. Administrative bullying needs to be addressed in the final version. We have to be cautious and not overly circumscribe behaviors. Once policy will be enacted, it will be difficult to control how it is enforced. That is an issue that needs to be addressed as well. Online bullying educational training would be helpful.
- h. Stromberger is involved in a lot of meetings currently. Please email her or stop by to visit. Stromberger is interested in conversing with you.
- i. What are Stromberger's initiatives this year?
 - a. Strengthen shared governance at CSU and engagement of faculty in budget and vision planning.

- b. Continue more momentum of change around Non-Tenure Track Faculty.
- c. Elevate service on FC as a valued service. Please meet with your department chair, if not on department meeting agendas, get on them. Make time to report about what FC is doing. Welcome new faculty to FC. Make your service more visible.
- d. Lastly, improving more communications with FC and help it become more visible and communicate the good we are doing, and the significant impact of our service.

Stromberger's report was received.

3. Board of Governors Faculty Representative – Paul Doherty

Doherty reported that the Board of Governors (BOG) met twice (June 18-19, August 6-7) this summer. Below are his notes from these meetings.

The June 18-19 meeting was held at the CSU Mountain Campus (full meeting notes are available on the BOG web site).

The first half of the meeting was focused on a strategic mapping exercise led by Dr. William Shuster (from CSU College of Business). This strategic planning exercise was focused at the level of the CSU System and topics discussed included which factors are beyond CSU's control, capabilities, and key performance indicators (KPIs). The BOG recognized that the three institutions (CSU-Fort Collins, CSU-Pueblo, and CSU-Global) are very different and have their own strategic plans, but the System strategic plan can be developed to provide more integration and efficiencies that serve all three institutions. Dr. Shuster, Amy Parsons, and leadership from the different campuses were directed to work on the plan by further developing initiatives and KPIs for the next BOG meeting. I suggest that if CSU faculty has cross-campus partnership ideas, the CSU System would be receptive to them.

The second half of the meeting was focused on regular business.

1) Real Estate/Facilities Committee

- a. Academic space in the new stadium - The different programming options for the academic space in the new stadium were discussed as well as the desire to meet the highest campus need and be utilized by many people. The space will include the alumni center, eight flipped classrooms, Center for Advising and Student Achievement (which will free up space for The Institute for Teaching and Learning and Resources for Disabled Students in the TILT building). The motion to approve this plan was passed.

- 2) Audit and Finance Committee
 - a. Approval of the FY 2016-2017 construction priority list – The priorities include final phase of the CSU chemistry building and phase II of the IT upgrades at CSU Pueblo (motion was approved).
 - b. Approval of five year construction budget request and the National Western Center project (motion was approved).
- 3) Approval of tuition/course fee charges (motion passed).

The May 6-7, 2015 meeting was held at the CSU-Pueblo Campus.

On the evening prior to the meeting, a community get together was held in Pueblo with local business, university, and community leaders. My notes are below, and when the official BOG minutes are approved, they will be available on the BOG web site).

- 1) Audit and Finance Committee
 - a. Housing at CSU-Pueblo - the BOG took a tour of on-campus housing at CSU-Pueblo to better understand some housing challenges (i.e., vacancies and conditions).
 - b. Campus budgets, state budgets, tuition and peer groups for CSU and CSU-Pueblo were discussed and presented.
- 2) The Board members had breakfast with CSU-Pueblo Non-Tenure Track Faculty
- 3) A resolution in support of a City of Denver Referendum to support the National Western Center was discussed.
- 4) Strategic Mapping update – an updated strategic plan from the June retreat was presented including capabilities, key performance indicators. The plan will be revisited at each BOG meeting throughout the year to assess progress and continue dialog.
- 5) Academic and Student Affairs Committee
 - a. Approval of degree candidates for academic year 2015-2016 (approved)
 - b. Faculty Manual Change – Section D.2.1 (University Benefits Committee) (approved)
 - c. Faculty Manual Change – Section F (Parental Leave; Catastrophic Leave) (approved)
 - d. Faculty Manual Change – Section I.15 (Student Group Advisor) (approved)
 - e. Faculty Manual Change – Appendix 1 (Discrimination, Harassment, ...) (approved)
 - f. Program Review Schedule 2015-2016 (approved)
 - g. Approval of Graduate Certificates (approved)
 - h. Graduate Certificates (approved)
 - i. Faculty Activity Report
 - j. Promotion and Tenure Report
 - k. Academic Integrity Report
- 6) Faculty and Student Reports
- 7) Chancellor and Presidents’ reports
- 8) Campus Athletic Reports

Doherty's report was received.

4. Faculty Council Standing Committee 2014-15 Annual Reports
 - a. Faculty Council Annual Report to the Board of Governors, pgs. 61-67
 - b. Committee on Faculty Governance (forthcoming)
 - c. Committee on Intercollegiate Athletics
 - d. Committee on Libraries (forthcoming)
 - e. Committee on Non-Tenure Track Faculty
 - f. Committee on Responsibilities & Standing of Academic Faculty (forthcoming)
 - g. Committee on Scholarship, Research & Graduate Education
 - h. Committee on Scholastic Standards
 - i. Committee on Strategic and Financial Planning
 - j. Committee on Teaching and Learning
 - k. Committee on University Programs
 - l. University Curriculum Committee

Stromberger presented the above written annual reports to Faculty Council. All reports were received.

5. University Benefits Committee

The report was received.

6. Semester at Sea (SAS)

Alicia Cook, Senior Academic Officer for SAS, provided a report on SAS-CSU activities over the summer.

CSU's agreement was signed in early June. Cook started in June on a 50% role. President Frank wants us to send 75 CSU students each year to SAS. The curriculum and all courses starting in Fall 2016 will be CSU courses. Alicia has met with 20 departments so far and has received tremendous support.

Cook reviewed courses in the CSU catalog for certain criteria: courses must be broad enough to be easily transferred to other institutions, and must not have any pre-requisites. Obviously courses change; so Alicia engages in a continuing conversation with departments. Course description and learning objectives will be the same taught on campus. The integrity of the course will be respected. The department approves a final syllabus before the faculty member is hired.

Alicia also works with faculty who will participate. The first set of academic deans has been named: Toni Zimmerman, Bob Kling, and John Olienyk. All have taught on Semester at Sea and are known for their excellence in teaching. CSU will provide full salaries for five Global Teaching Scholars each voyage: the academic dean and four faculty. Cook stressed that the Global Teaching Scholars will include CSU's best teachers.

Cook announced that information sessions will be held soon, beginning in the next few weeks. Stromberger will forward the announcements to Faculty Councils by email as well.

Cook's report was received.

CONSENT AGENDA

1. Confirmation of Faculty Council Secretary – Rita Knoll – Executive Assistant to Faculty Council
2. Confirmation of Faculty Council Parliamentarian – Lola Fehr – Professional Registered Parliamentarian
3. UCC Minutes – May 8, 2015

Carole Makela, Chair, University Curriculum Committee, moved that Faculty Council approve the consent agenda.

The consent agenda was unanimously approved.

ACTION ITEMS

1. New CIOSU: CSU Early Childhood Center – CUP

Eric Prince, Chair, Committee on University Programs, moved that Faculty Council approve the CSU Early Childhood Center as an official Center. He added that the Center is very active, would like to expand its research program, and that the application has the full support of his committee.

The motion was unanimously approved by FC.

2. Proposed revisions to the Graduate and Professional Bulletin – D.5 – APPLICATION:
INTERNATIONAL STUDENTS
F.2.2 – ASSISTANTSHIPS
-CoSRGE

Donald Samelson, Chair, Rationale: Samelson explained that this test is available more readily in some countries and is more affordable but will not replace the other two types of testing.

Samelson moved that FC approve the proposed changes to the Graduate and Professional Bulletin.

The motion was unanimously approved by Faculty Council.

3. Request for Department name change – Change Foreign Languages and Literatures to Languages, Literature and Cultures – CoFG

Stephanie Clemons, Vice Chair, moved, on behalf of CoFG, that Faculty Council approve the request from the Department of Foreign Languages and Literatures to change its name to Languages, Literatures and Cultures.

Pedros-Gascon (Foreign Languages and Literatures) explained that the current name is outdated and politically incorrect in its use of “Foreign”.

The motion was unanimously approved by Faculty Council.

DISCUSSION

1. None

Stromberger adjourned the meeting at 5:31 p.m.

Mary Stromberger, Chair
Stephanie Clemons, Vice Chair
Rita Knoll, Executive Assistant

ATTENDANCE
BOLD INDICATES PRESENT AT MEETING
UNDERLINE INDICATES ABSENT AT MEETING

Agricultural Sciences

TBD	Agricultural and Resource Economics	2016
<u>Stephen Coleman</u>	Animal Sciences	2018
<u>Scott Nissen</u>	Bioagricultural Sciences & Pest Management	2018
Bradley Goetz	Horticulture & Landscape Architecture	2016
Francesca Cotrufo	Soil and Crop Sciences	2017
<u>Milt Thomas</u>	College-at-Large	2016
Jason Ahola	College-at-Large	2017

Health and Human Sciences

TBD	Design and Merchandising	2016
Tracy Nelson	Health and Exercise Science	2016
David Sampson	Food Science and Human Nutrition	2016
Allison Bielak (Substituting for Lisa Daunhauer – Sabbatical)	Human Development and Family Studies	2018
Scott Glick	Construction Management	2017
Barb Hooper	Occupational Therapy	2017
TBD	School of Education	2018
<u>Jennifer Portz</u> (Eunhee Choi substituting Fall 2015)	School of Social Work	2016

Business

Margarita Lenk	Accounting	2016
Stephen Hayne (Dan Turk substitute for Stephen Hayne)	Computer Information Systems	2018
<u>Patricia Ryan</u>	Finance and Real Estate	2016
Ray Hogler (Substituting for Troy Mumford Fall 2015)	Management	2018
Tuba Ustuner	Marketing	2018

Engineering

Russ Schumacher	Atmospheric Science	2018
Travis Bailey (Qiang (David) Wang substitute for Travis Bailey)	Chemical and Biological Engineering	2016
Rebecca Atadero	Civil and Environmental Engineering	2018
Steve Reising (Sourajeet Roy substitute for Steve Reising)	Electrical and Computer Engineering	2016
Azer Yalin	Mechanical Engineering	2017
<u>J. Rockey Luo</u>	College-at-Large	2016
Jose Chavez	College-at-Large	2016
TBD	College-at-Large	2018

Liberal Arts

Michael Pante	Anthropology	2017
Eleanor Moseman	Art	2017
Elizabeth Williams	Communication Studies	2016
Robert Keller	Economics	2016
<u>TBD</u>	English	2018
Ernesto Sagas	Ethnic Studies	2017
<u>TBD</u>	Foreign Languages and Literatures	2018
<u>Adrian Howkins</u>	History	2017
Jangyul Kim	Journalism and Technical Communication	2017
Gary Moody	Music, Theater, and Dance	2016
<u>TBD</u>	Philosophy	2018
Kyle Saunders	Political Science	2018
Ken Berry	Sociology	2016
Eric Aoki	College-at-Large	2016
Mohammed Hirchi	College-at-Large	2017
<u>TBD</u>	College-at-Large	2016
<u>TBD</u>	College-at-Large	2018
<u>TBD</u>	College-at-Large	2018

Natural Resources

Monique Rocca	Ecosystem Science and Sustainability	2017
Julie Savidge (thru Spring 2016)	Fish, Wildlife, & Conservation Biology	2016
Maria Fernandez-Gimenez	Forest and Rangeland Stewardship	2017
William Sanford	Geosciences	2017
Stuart Cottrell	HDNR in Warner College	2017

Natural Sciences

Tom Santangelo	Biochemistry and Molecular Biology	2016
<u>Melinda Smith</u>	Biology	2018
<u>George Barisas</u>	Chemistry	2017
Ross McConnell	Computer Science	2016
Iuliana Oprea	Mathematics	2017
<u>Mingzhong Wu</u>	Physics	2017
Zinta Byrne	Psychology	2016
<u>Geof Givens</u>	Statistics	2016
<u>Ed DeLosh</u>	College-at-Large	2017
<u>Christos Papadopoulos</u>	College-at-Large	2016
Janice Moore	College-at-Large	2018
Brad Conner	College-at-Large	2018
Alan Van Orden	College-at-Large	2018

Veterinary Medicine & Biomedical Sciences

Elaine Carnevale	Biomedical Sciences	2016
<u>Howard Seim</u>	Clinical Sciences	2016
Lucas Argueso	Environmental & Radiological Health Sciences	2017
Alan Schenkel	Microbiology, Immunology and Pathology	2018
Ryan Ferris	College-at-Large	2017
Gerald Callahan	College-at-Large	2017
<u>Pete Hellyer</u>	College-at-Large	2016
David Gilkey	College-at-Large	2016
<u>E.J. Ehrhart</u>	College-at-Large	2016
DN Rao Veeramachaneni	College-at-Large	2016
TBD	College-at-Large	2018
TBD	College-at-Large	2018

University Libraries

Nancy Hunter	Libraries	2017
Rachel Erb	At-Large	2016

***Ex Officio* Voting Members**

Mary Stromberger	Chair, Faculty Council/Executive Committee	2016
Stephanie Clemons	Vice Chair, Faculty Council	2016
Paul Doherty, Jr.	BOG Faculty Representative	2016
Don Estep, Chair	Committee on Faculty Governance	2016
Todd Donovan, Chair	Committee on Intercollegiate Athletics	2016
Jerry Magloughlin, Chair	Committee on Libraries	2016
Jennifer Aberle , Chair	Committee on Non-Tenure Track Faculty	2016
Bill Hanneman, Chair	Committee on Responsibilities & Standing of Academic Faculty	2016
Mark Zabel, Chair	Committee on Scholarship Research and Graduate Education	2016
Melinda Frye, Chair	Committee on Scholastic Standards	2016
Katharine Leigh, Chair	Committee on Strategic and Financial Planning	2016
Anton Betten , Chair	Committee on Teaching and Learning	2016
Eric Prince , Chair	Committee on University Programs	2016
Carole Makela , Chair	University Curriculum Committee	2016

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

Anthony Frank	President
Rick Miranda	Provost/Executive Vice President
Brett Anderson	Vice President for Advancement
Mary Ontiveros	Vice President for Diversity
Lou Swanson	Vice Provost for Engagement/Director of Extension
Robin Brown	Vice President for Enrollment and Access
Dan Bush	Vice Provost for Faculty Affairs
Patrick Burns	Vice President for Information Technology/Dean Libraries
Jim Cooney	Vice Provost for International Affairs

Ex-Officio Non-Voting Members Cont'd

Tom Milligan	Vice President for Public Affairs
Alan Rudolph	Vice President for Research
Blanche M. Hughes	Vice President for Student Affairs
Kathleen Pickering	Vice Provost for Undergraduate Affairs
Amy Parsons	Vice President for University Operations
Ajay Menon	Dean, College of Agricultural Sciences
Jeff McCubbin	Dean, College of Applied Human Sciences
Beth Walker	Dean, College of Business
David McLean	Dean, College of Engineering
Jodie Hanzlik	Dean, Graduate School
Ann Gill	Dean, College of Liberal Arts
Jan Nerger	Dean, College of Natural Sciences
Mark Stetter	Dean, College of Veterinary Medicine & Biomedical Sciences
John Hayes	Dean, Warner College of Natural Resources
Toni-Lee Viney	Chair, Administrative Professional Council

**Faculty Council Committee on Libraries
Annual Report
Academic Year 2014-2015**

Committee Members

Kellie Enns	Agricultural Sciences
Susan Baker	Health and Human Sciences
Laurence E. Johnson	Business
Allan Kirkpatrick	Engineering
Antero Garcia	Liberal Arts
Nancy Hunter	Libraries
Jerry F. Magloughlin	Natural Resources
Martin Gelfand	Natural Sciences
Noreen E. Reist	Veterinary Medicine & Biomedical Sciences
Patrick Burns, Dean (ex officio)	Libraries Administration
Megan Aanstoos	Graduate Student Representative
Jake Loughridge	Undergraduate Student Representative
Mary E. Stromberger (ex officio)	Chair, Faculty Council

The Committee met seven times (monthly October through May) during the 2014-2015 academic year.

The Committee's discussion during the various meetings focused on the following topics:

- Open access research and scholarship
 - Peter Suber broadcast - April 6, 2015
 - Endorsement of open textbook visit and workshop by David Ernst - September 2015
- Meeting with ARL Executive Director Elliott Shore - October 22, 2014
- Collections restructuring initiative
 - Open forum - October 23, 2014
 - Recommendation to offer a PDI session in FY16
- Serials/journals collection and breaking up big deals – Alliance negotiating strategy for Elsevier
- Libraries strategic initiatives
- Libraries budget planning for 2015-2016
- ORCID unique identifiers for those who publish – presented to CRAD
- CSU's participation in Unizin, an organization established to gain control of the university digital learning eco system
- Survey of faculty research behaviors
- Libraries and Office of V.P. for Research partnership to achieve positive results

The Committee benefited from presentations by and discussions with the Libraries faculty and staff, and the time they spent with the Committee in preparing reports for consideration was appreciated.

In early 2015, the Committee sent a memorandum to the Faculty Council Committee on Strategic and Financial Planning with recommendations pertaining to funding for the Libraries.

Jerry Magloughlin was re-elected chair of the Committee for the 2015-2016 academic year.

Respectfully submitted,

Jerry Magloughlin
COL chair
Department of Geosciences
Colorado State University
970-491-1812, Jerry.Magloughlin@colostate.edu

MEMORANDUM

DATE: September 21, 2015
TO: Mary Stromberger, Chair Faculty Council
FROM: Rick Miranda, Provost and Executive Vice President
SUBJECT: Approval of Fall Degree Candidates – December 2015 Commencement

Rick Miranda, Provost and Executive Vice President, MOVES THAT FACULTY COUNCIL APPROVE THE CANDIDATES WHO MEET THE DEGREE REQUIREMENTS FOR GRADUATION AT THE CLOSE OF THE 2015 FALL SEMESTER.

A regular meeting of the University Curriculum Committee was held on August 21, 2015, at 2:00 p.m.

Members present: Chair Carole Makela, Professors Bradley Goetz, Brad Reifeld, Mike Hogan, Sally Sutton, Ed DeLosh, Howard Ramsdell, Beth Oehlerts, undergraduate representative Andy Schafer.

Absent: Graduate representative, Kathleen Pickering (ex-officio), Paul Mallette.

Guests: Yvonne Bridgeman, Kelley Brundage, Linda Selkirk.

Minutes

The Minutes of May 8, 2015 approved by electronic vote on 5/12/2015 (for information)

Experimental Course Report

The Experimental Course Report was received.

Major Completion Maps—No Changes Report

There was no Major Completion Maps – No Changes Report.

Consent Agenda

The Consent Agenda was approved.

CURRICULAR REQUESTS

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

* 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

AGRI/HORT 515 03(3-0-0). Urban Horticulture. S.

Spring Semester 2016

Prerequisite: HORT 450A or HORT 450B or HORT 450C or HORT 450D.

Investigate and evaluate the techniques of incorporating food production systems in the urban and peri-urban environment. (NT-O)

[Approved as a new online course.]

BC 566 01(1-0-0). Advanced Topics in Mitotic Processes. F, S.

Spring Semester 2016

Prerequisite: BC 465 or BC 565 or written consent of instructor.

Mitotic spindle, microtubules, kinetochores, and molecular motors, specifically during cell division.

CS 435 04(3-2-0). Introduction to Big Data. S.

Spring Semester 2016

Prerequisite: CS 370 with C or better.

Fundamental issues in big data: data organization, storage, retrieval, analytics, and knowledge discovery at scale.

[Approved as a new course and for AUCC categories 4A, 4C.]

ETST 496 Var. [1-3]. Group Study. F, S, SS.

Spring Semester 2016

Prerequisite: Written consent of instructor.

GR 493 01(1-0-0). Capstone. F, S.

Spring Semester 2016

Prerequisite: Concurrent registration in a 4A GR Course.

Exploration of the linkages among geographic sub-fields and other natural and social sciences as well as how professional geographers approach issues.

[Approved as a new course and for AUCC category 4C for the proposed major in Geography.]

HIST 475 03(3-0-0). History in the Digital Age. S.

Spring Semester 2016

Prerequisite: 3 credits of HIST; completion of 45 credits.

Examine recent works of digital history and explore the critical issues and technologies used in digital history.

HORT/AGRI 515 03(3-0-0). Urban Horticulture. S.

Spring Semester 2016

Prerequisite: HORT 450A or HORT 450B or HORT 450C or HORT 450D.

Investigate and evaluate the techniques of incorporating food production systems in the urban and peri-urban environment. (NT-O)

[Approved as a new online course.]

MIP 150 03(0-6-0). Introduction to Research Methods. F, S.

Spring Semester 2016

Prerequisite: None.

Undergraduate research experience highlighting fundamental skills of laboratory research while working towards the goal of novel microbial discovery.

RRM 510 02(1-0-1). Foodservice Management. S.

Spring Semester 2016

Prerequisite: NRRT 402 or NRRT 471. This is a partial semester course.

Analysis of a wide variety of foodservice operations, including procurement, forecasting, operational design, and menu planning.

[Approved as a new face-to-face and as a new online course.]

RRM 520 02(1-0-1). Lodging Management. F.

Spring Semester 2016

Prerequisite: NRRT 442 or NRRT 471. This is a partial semester course.

Operating standards and practices essential to the profitability of a hotel, lodging, and accommodation enterprise. (NT-O)

[Approved as a new face-to-face and as a new online course.]

SOC 359 03(3-0-0). Green Criminology. S.

Spring Semester 2016

Prerequisite: SOC 100 or SOC 105.

Environmental offenses, victims, and responses to environmental crimes and harms.

STAT 358 02(2-0-0). Introduction to Statistical Computing in SAS. S.

Spring Semester 2016

Prerequisite: STAT 315 or STAT 341.

Statistical procedures and database operations using the SAS programming language.

Major Change to Courses

Effective Date

BMS 496 A-C Var.[1-3]. Honors, **change to:**

Spring Semester 2016

BMS 496 A-D Var. [1-3]. Honors. F, S.

Prerequisite: BMS 301 or concurrent registration or BMS 302 or concurrent registration or BMS 360 or concurrent registration or BMS 305 or concurrent registration.

Honors breakout session for students in specific BMS courses: A) Human Gross Anatomy. B) Physiology Lab. C) Physiology Case Studies. D) Animal Gross Anatomy.

F 424 03(2-2-0). Wildland Fire Behavior and Management, **change to:**

Spring Semester 2016

F 326 03(3-0-0). Wildland Fire Behavior and Management. F.

Prerequisite: LAND 220/LIFE 220 or LIFE 320.

Physical and managerial principles influencing fire, how fires shape our forests and approaches used to manage wildland fire.

HDFS 350 03(2-2-0). Applied Research Methods, **change to:**

Spring Semester 2016

HDFS 350 03(2-2-0). Applied Research Methods. F, S, SS.

Prerequisite: HDFS 101 or PSY 100; STAT 201 or STAT 301 or STAT 311.

Interpret, apply and write about research findings in human development. (NT-O)

[Is a face-to-face and an online course.]

HDFS 477 01(1-0-0). Professional Skills Development II, **change to:**

Spring Semester 2016

HDFS 477 01(1-0-0). Professional Skills Development II. F, S, SS.

Prerequisite: HDFS 277; completion of 90 credits; Human Development and Family Studies majors only.

Applications and integration of human development and family background within professional settings. (NT-O)

[Is a face-to-face and an online course.]

HDFS 492 03(0-0-3). Seminar-Program Proposal Development, **change to:**

Spring Semester 2016

HDFS 492 03(0-0-3). Seminar-Program Proposal Development. F, S, SS.

Prerequisite: HDFS 350; HDFS 477 or concurrent registration or EDUC 400; major in Human Development and Family Studies or Early Childhood Education; completion of 90 credits.

Research, development, and oral presentations of program proposals from a family systems and development perspective. (NT-O)

[Is a face-to-face and an online course.]

MECH 651 03(3-0-0). Computational Gas Dynamics, **change to:**

Spring Semester 2016

MECH 568 03(3-0-0). Computational Methods for Mechanical Eng.

F. Prerequisite: MATH 450 or MATH 451.

Fundamental Principles which provide the foundation for the software and algorithms used in Mechanical Engineering.

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SOWK 677 03(1-0-2). Trauma-Informed Care, **change to:**

Spring Semester 2016

SOWK 677 03(0-0-3). Trauma-Informed Care. S.

Prerequisite: Bachelor's degree. This is a partial semester course.

Establishes a foundation for providing trauma mental health services to individuals, families, groups and organizations. (NT-O)

[Is a face-to-face and an online course.]

New Curricula: Graduate Certificate

**College of Engineering
Department of Electrical and Computer Engineering
Graduate Certificate in Power and Energy**

Effective Date: TBD

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

<u>Course</u>	<u>Title</u>	<u>Credits</u>
	<i>Select three of the following courses:</i>	
<u>ECE 508^P</u>	<u>Introduction to Power System Markets</u>	<u>3</u>
<u>ECE 509^P</u>	<u>Signal Processing for Power Systems</u>	<u>3</u>
<u>ECE 565^P</u>	<u>Electrical Power Engineering</u>	<u>3</u>
<u>ECE 566^P</u>	<u>Grid Integration of Wind Energy Systems</u>	<u>3</u>
<u>ECE 623^P</u>	<u>Electric Power Quality</u>	<u>3</u>
	<u>TOTAL</u>	<u>9</u>
PROGRAM TOTAL*		

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu/> to see the course prerequisites.

* Department may require additional coursework due to prerequisites.

The meeting adjourned at 4:45 p.m.

(D)

Carole Makela, Chair
Yvonne Bridgeman, Secretary

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A regular meeting of the University Curriculum Committee was held on August 28, 2015, at 2:00 p.m.

Members present: Chair Carole Makela, Professors Bradley Goetz, Paul Mallette, Brad Reisfeld, Mike Hogan, Sally Sutton, Ed DeLosh, Howard Ramsdell, Beth Oehlerts, undergraduate representative Tyler Siri, Kathleen Pickering (ex-officio).

Absent: Graduate representative.

Guests: Yvonne Bridgeman, Kelley Brundage, Linda Selkirk, Andrea Russo.

Minutes

The Minutes of August 21, 2015 were approved.

Experimental Course Report

There was no Experimental Course Report.

Consent Agenda

The Consent Agenda was approved.

CURRICULAR REQUESTS

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

* 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

FTEC 478 02(2-0-0). Phytochemicals and Probiotics for Health. F.

Spring Semester 2016

Prerequisite: BC 351.

Examination of phytochemistry and probiotic organisms important in human health.

HDFS 505 03(3-0-0). Human Development for Helping Professionals. SS.

Summer Semester 2016

Prerequisite: Graduate standing or written consent of instructor.

An advanced overview of lifespan development, focusing on wellness promotion and developmental influences on case conceptualization and treatment. (NT-O)

[Approved as an online course.]

MKT 315 03(3-0-0). Marketing Communication Design. F, S.

Spring Semester 2016

Prerequisite: MKT 300 or MKT 305.

Creating multiple kinds of marketing communications using graphic design software.

MKT 450 03(3-0-0). Marketing Analytics. S.

Spring Semester 2016

Prerequisite: MKT 410.

Analytic techniques used by marketers to transform data into decision-making information.

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Major Change to Courses

Effective Date

BC 499A 03(0-0-3). Thesis: Laboratory Research-Based, **change to:**

Spring Semester 2016

BC 499A 03(0-0-3). Thesis: Laboratory Research-Based. F, S, SS.

Prerequisite: None.

A) Laboratory-based research.

[Approved for AUCC category 4C for the concentrations in Biochemistry major: General Biochemistry; Health & Medical Sciences; Pre-Pharmacy.]

BC 499B 03(0-0-3). Thesis: Literature-Based, **change to:**

Spring Semester 2016

BC 499B 03(0-0-3). Thesis: Literature-Based. F, S, SS.

Prerequisite: BC 493 or concurrent registration.

B) Literature-based in Gen. Biochemistry.

[Approved for AUCC category 4C for the concentration in Biochemistry major: General Biochemistry.]

BC 499C 03(0-0-3). Thesis: Literature-Based in Health and Med. Sci., **change to:**

Spring Semester 2016

BC 499C 03(0-0-3). Thesis: Literature-Based in Health and Med. Sci.

F, S, SS. Prerequisite: BC 493 or concurrent registration.

C) Literature-based in Health and Med. Sci.

[Approved for AUCC category 4C for the concentration in Biochemistry major: Health & Medical Sciences.]

BC 499D 03(0-0-3). Thesis: Literature-Based in Pre-Pharmacy, **change to:**

Spring Semester 2016

BC 499D 03(0-0-3). Thesis: Literature-Based in Pre-Pharmacy. F, S,

SS. Prerequisite: BC 493 or concurrent registration.

D) Literature-based in Pre-Pharmacy.

[Approved for AUCC category 4C for the concentration in Biochemistry major: Pre-Pharmacy.]

FTEC 430 02(1-2-0). Sensory Evaluation of Fermented Products, **change to:**

Spring Semester 2016

° **FTEC 430 02(1-2-0). Sensory Evaluation of Fermented Products.** S

Prerequisite: FSHN 301 or FTEC 210.

Application of sensory evaluation techniques to the study of fermented foods.

[Approved for AUCC category 4A for the concentration in Nutrition & Food Science major: Food Safety & Nutrition.]

FTEC 492 02(1-0-1). Seminar: Fermentation Science and Technology,
change to:

Spring Semester 2016

FTEC 492 02(1-0-1). Seminar: Fermentation Science and Food Safety. F, S. Prerequisite: Senior standing.

Capstone seminar in fermentation science and food safety.

[Approved for AUCC category 4A for the concentration in Nutrition & Food Science major: Food Safety & Nutrition.]

HDFS 310 03(3-0-0). Infant and Child Development in Context, **change to:**

Fall Semester 2016

HDFS 310 03(3-0-0). Infant and Child Development in Context. F, S, SS.

Prerequisite: HDFS 101 or PSY 100; completion of 30 credits.

Physical, cognitive, and socioemotional development from conception through middle childhood in context of family, relationships, and culture. (NT-O)

[Is a face-to-face and an online course.]

HDFS 311 03(3-0-0). Adolescent/Early Adult Development in Context, **change to:**

Fall Semester 2016

HDFS 311 03(3-0-0). Adolescent/Early Adult Development in Context. F, S, SS.

Prerequisite: HDFS 101 or PSY 100; completion of 30 credits.

Physical, cognitive, and socioemotional development of adolescents and young adults in context of family, relationships, and culture. (NT-O)

[Is a face-to-face and an online course.]

HDFS 312 03(3-0-0). Adult Development-Middle Age and Aging, **change to:**

Fall Semester 2016

HDFS 312 03(3-0-0). Adult Development-Middle Age and Aging. F, S, SS.

Prerequisite: HDFS 101 or PSY 100; completion of 30 credits.

Developmental issues and processes pertaining to middle and later adulthood. Contexts in which adult development and aging occur are emphasized. (NT-O)

[Is a face-to-face and an online course.]

SOWK 676 03(1-0-2). Psychopharmacology and Community Health, **change to:**

Fall Semester 2016

SOWK 676 03(0-0-3). Psychopharmacology and Community Health. F.

Prerequisite: Bachelor's degree. This is a partial semester course.

Foundation in psychopharmacology (i.e. prescribed psychotropic drugs) for non-medically trained professionals practicing in behavioral health. (NT-O)

[Approved as an online only course.]

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Major Change to Curricula

**College of Natural Sciences
 Department of Biochemistry and Molecular Biology
 Major in Biochemistry
 General Biochemistry Concentration**

Effective Fall 2016

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

A minimum grade of C (2.000) must be earned for BC 493 and all biochemistry (BC) and LIFE subject code lecture and laboratory courses at or above the 200-level required in the biochemistry major.

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
BC 192	Biochemistry Freshman Seminar	2	
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
LIFE 102 ^P	Attributes of Living Systems	4	3A
LIFE 201B ^P	Introductory Genetics	3	
LIFE 203 ^P	Introductory Genetics Laboratory	2	
<i>Select one pair of courses from the following:</i>			
MATH 155 ^P	Calculus for Biological Scientists I	4	1B
MATH 255 ^P	Calculus for Biological Scientists II	4	1B
OR			
MATH 160 ^P	Calculus for Physical Scientists I	4	1B
MATH 161 ^P	Calculus for Physical Scientists II	4	1B
TOTAL		31	
SOPHOMORE			
CHEM 341 ^P	Modern Organic Chemistry I	3	
CHEM 343 ^P	Modern Organic Chemistry II	3	
CHEM 344 ^P	Modern Organic Chemistry Laboratory	2	
LIFE 210 ^P	Introductory Eukaryotic Cell Biology	3	
LIFE 212 ^P	Introductory Cell Biology Laboratory	2	
PH 121 ^P	General Physics I	5	3A
OR			
PH 141 ^P	Physics for Scientists and Engineers I	5	3A
	Advanced Writing ¹	3	2
	AUCC Category 3 courses ²	6	3B-3E
	Bioscience Elective ³	3-4	
TOTAL		30-31	
JUNIOR			
BC 401 ^P	Comprehensive Biochemistry I	3	4A
BC 403 ^P	Comprehensive Biochemistry II	3	4B
BC 404 ^P	Comprehensive Biochemistry Laboratory	2	4B
PH 122 ^P	General Physics II	5	3A
OR			
PH 142 ^P	Physics for Scientists and Engineers II	5	3A
STAT 301 ^P	Introduction to Statistical Methods	3	
OR			

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
STAT 307 ^P	Introduction to Biostatistics	3	
	Bioscience elective ³	3-4	
	AUCC Category 3 courses ²	3	3B-3E
	Electives	6	
	TOTAL	28-29	
SENIOR			
BC 411 ^P	Physical Biochemistry	4	
BC 463 ^P	Molecular Genetics	3	4C
BC 465 ^P	Molecular Regulation of Cell Function	3	
BC 493 ^P	Senior Seminar	1	4A, 4C
BC 499A	Thesis-Laboratory Research-Based	3	4C
	OR		
BC 499B	Thesis-Literature-Based	3	4C
	Bioscience elective ³	3-4	
	AUCC Category 3 course ²	6	3B-3E
	Electives ⁴	6-7	
	TOTAL	29-31	

PROGRAM TOTAL = 120 credits

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu> to see the course prerequisites.

¹ Select from the list of courses in category 2 of in the All-University Core Curriculum (AUCC).

² Select from the list of courses in categories 3B-3E (six credits [two courses] must come from 3B; one course each from categories 3C, 3D, and 3E) 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.

³ Select in consultation with adviser using list approved by the department.

⁴ Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300-400-level).



College of Natural Sciences
Department of Biochemistry
Major in Biochemistry
Health and Medical Sciences Concentration

Effective Fall 2016

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

A minimum grade of C (2.000) must be earned for BC 493 and all biochemistry (BC) and LIFE subject code lecture and laboratory courses at or above the 200-level required in the biochemistry major.

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
BC 192	Biochemistry Freshman Seminar	2	
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
LIFE 102 ^P	Attributes of Living Systems	4	3A
LIFE 201B ^P	Introductory Genetics	3	
LIFE 203 ^P	Introductory Genetics Laboratory	2	
	<i>Select one pair of courses from the following:</i>		
MATH 155 ^P	Calculus for Biological Scientists I	4	1B
MATH 255 ^P	Calculus for Biological Scientists II	4	1B

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
OR			
MATH 160 ^P	Calculus for Physical Scientists I	4	1B
MATH 161 ^P	Calculus for Physical Scientists II	4	1B
TOTAL		31	
SOPHOMORE			
BMS 300 ^P	Principles of Human Physiology	4	
OR			
BMS 360 ^P	Fundamentals of Physiology	4	
CHEM 341 ^P	Modern Organic Chemistry I	3	
CHEM 343 ^P	Modern Organic Chemistry II	3	
CHEM 344 ^P	Modern Organic Chemistry Laboratory	2	
LIFE 210 ^P	Introductory Eukaryotic Cell Biology	3	
LIFE 212 ^P	Introductory Cell Biology Laboratory	2	
PH 121 ^P	General Physics I	5	3A
OR			
PH 141 ^P	Physics for Scientists and Engineers I	5	3A
	Advanced Writing ¹	3	2
	AUCC Category 3 courses ¹ / <u>courses²</u>	<u>6</u>	3B-3E
TOTAL		31	
JUNIOR			
BC 401 ^P	Comprehensive Biochemistry I	3	4A
BC 403 ^P	Comprehensive Biochemistry II	3	4B
BC 404 ^P	Comprehensive Biochemistry Laboratory	2	4B
<i>Select one of the following courses:</i>			
BC 475 ^P	Mentored Research	3	
BC 487A ^P	Internship	3	
BC 495 ^P	Independent Study	3	
BMS 301 ^P	Human Gross Anatomy	5	
OR			
BMS 305 ^P	Domestic Animal Gross Anatomy	4	
PH 122 ^P	General Physics II	5	3A
OR			
PH 142 ^P	Physics for Scientists and Engineers II	5	3A
STAT 301 ^P	Introduction to Statistical Methods	3	
OR			
STAT 307 ^P	Introduction to Biostatistics	3	
	AUCC Category 3 courses ¹	3	
	Elective	<u>3</u>	
TOTAL		29-30	
SENIOR			
BC 411 ^P	Physical Biochemistry	4	
BC 463 ^P	Molecular Genetics	3	4C
BC 465 ^P	Molecular Regulation of Cell Function	3	
BC 467 ^P	Biochemistry of Disease	3	
BC 493 ^P	Senior Seminar	1	4A, 4C
BC 499A	Thesis-Laboratory Research-Based	3	<u>4C</u>
OR			
BC 499C	Thesis-Literature-Based, Health and Med. Sci.	3	<u>4C</u>
	AUCC Category 3 course ²	6	3B-3E
	Electives ³	<u>5-6</u>	
TOTAL		28-29	
PROGRAM TOTAL = 120 credits			

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu> to see the course prerequisites.

¹ Select from the list of courses in category 2 in the All-University Core Curriculum (AUCC).

² Select from the list of courses in categories 3B-3E (six credits [two courses] must come from 3B;

one course each from categories 3C, 3D, and 3E) 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.

³ Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42— must be upper-division (300- to 400-level).



**College of Natural Sciences
Department of Biochemistry
Major in Biochemistry
Pre-Pharmacy Concentration**

Effective Fall 2016

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

A minimum grade of C (2.000) must be earned for BC 493 and all biochemistry (BC) and LIFE subject code lecture and laboratory courses at or above the 200-level required in the biochemistry major.

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
BC 192	Biochemistry Freshman Seminar	2	
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
LIFE 102 ^P	Attributes of Living Systems	4	3A
LIFE 201B ^P	Introductory Genetics	3	
LIFE 203 ^P	Introductory Genetics Laboratory	2	
<i>Select one pair of courses from the following:</i>			
MATH 155 ^P	Calculus for Biological Scientists I	4	1B
MATH 255 ^P	Calculus for Biological Scientists II	4	1B
OR			
MATH 160 ^P	Calculus for Physical Scientists I	4	1B
MATH 161 ^P	Calculus for Physical Scientists II	4	1B
TOTAL		31	
SOPHOMORE			
BMS 300 ^P	Principles of Human Physiology	4	
OR			
BMS 360 ^P	Fundamentals of Physiology	4	
BMS 302 ^P	Laboratory Principles in Physiology	2	
CHEM 341 ^P	Modern Organic Chemistry I	3	
CHEM 343 ^P	Modern Organic Chemistry II	3	
CHEM 344 ^P	Modern Organic Chemistry Laboratory	2	
LIFE 210 ^P	Introductory Eukaryotic Cell Biology	3	
LIFE 212 ^P	Introductory Cell Biology Laboratory	2	
PH 121 ^P	General Physics I	5	3A
OR			
PH 141 ^P	Physics for Scientists and Engineers I	5	3A
SPCM 200	Public Speaking	3	
	Advanced Writing ¹	3	2
TOTAL		30	

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
JUNIOR			
BC 401 ^P	Comprehensive Biochemistry I	3	4A
BC 403 ^P	Comprehensive Biochemistry II	3	4B
BC 404 ^P	Comprehensive Biochemistry Laboratory	2	4B
ECON 202 ^P	Principles of Microeconomics	3	3C
MIP 300 ^P	General Microbiology	3	
MIP 302 ^P	General Microbiology Laboratory	2	
PH 122 ^P	General Physics II	5	3A
OR			
PH 142 ^P	Physics for Scientists and Engineers II	5	3A
STAT 301 ^P	Introduction to Statistical Methods	3	
OR			
STAT 307 ^P	Introduction to Biostatistics	3	
		6	3B, 3D, 3E
AUCC Category 3 courses ²			
TOTAL		30	
SENIOR			
BC 411 ^P	Physical Biochemistry	4	
BC 463 ^P	Molecular Genetics	3	4C
BC 465 ^P	Molecular Regulation of Cell Function	3	
BC 493 ^P	Senior Seminar	1	4A, 4C
BC 499A	Thesis-Laboratory Research-Based	3	<u>4C</u>
OR			
BC 499D	Thesis-Literature-Based, Pre-Pharmacy	3	<u>4C</u>
MIP 342 ^P	Immunology	4	
		6	3B, 3D, 3E
AUCC Category 3 courses ²			
Elective ³		5	
TOTAL		29	

PROGRAM TOTAL = 120 credits

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu> to see the course prerequisites.

¹ Select from the list of courses in category ~~2B~~ of in the All-University Core Curriculum (AUCC).

² Select from the list of courses in categories ~~3B-3E~~, 3D and 3E (six credits [two courses] must come from 3B; one course each from categories ~~3C~~, 3D, and 3E) 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.

³ Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400-level).



College of Health and Human Sciences
Department of Food Science and Human Nutrition
Major in Nutrition and Food Science
Food Safety and Nutrition Concentration

Effective Spring 2016

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

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
<i>Select four credits from the following:</i>			
BZ 110	Principles of Animal Biology	3	3A
BZ 111 ^P	Animal Biology Laboratory	1	3A
OR			
LIFE 102 ^P	Attributes of Living Systems	4	3A
<i>Select one set from the following:</i>			

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
CHEM 107 ^P	Fundamentals of Chemistry	4	3A
CHEM 108 ^P	Fundamentals of Chemistry Laboratory	1	3A
OR			
CHEM 111 ^P	General Chemistry I	4	3A
CHEM 112 ^P	General Chemistry Laboratory I	1	3A
CHEM 113 ^P	General Chemistry II	3	
CO 150 ^P	College Composition	3	1A
FSHN 125	Food and Nutrition in Health	2	
OR			
FSHN 150	Survey of Human Nutrition	3	
FTEC 110	Food—From Farm to Table	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
SOC 100	General Sociology	3	3C
	Foundations and Perspectives ¹	6	3B, 3D, 3E
TOTAL		29-33	
SOPHOMORE			
BMS 300 ^P	Principles of Human Anatomy and Physiology	4	
<i>Select one course from the following:</i>			
CO 300 ^P	Writing Arguments	3	2
CO 301B ^P	Writing in the Disciplines-Sciences	3	2
CO 301C ^P	Writing in the Disciplines-Social Sciences	3	2
JTC 300 ^P	Professional and Technical Communication	3	2
CHEM 245 ^P	Fundamentals of Organic Chemistry	4	
CHEM 246 ^P	Fundamentals of Organic Chemistry Laboratory	1	
BUS 150	Business Computing Concepts and Applications	3	
OR			
CS 110	Personal Computing	4	
FSHN 300 ^P	Food Principles and Applications	3	
FSHN 301 ^P	Food Principles and Applications Laboratory	2	
SPCM 200	Public Speaking	3	
	Foundations and Perspectives ^{2,1}	6	3B, 3D, 3E
TOTAL		29-30	
JUNIOR			
FSHN 350 ^P	Human Nutrition	3	
FTEC 447 ^P	Food Chemistry	2	4B
LIFE 205	Survey of Microbial Biology	3	
LIFE 206 ^P	Microbial Biology Laboratory	2	
	Upper-division FSHN/RRM courses	6	
	Advanced courses ²	8	
	Electives	3	
TOTAL		30	
SENIOR			
FSHN 492^P	Seminar in Dietetics and Nutrition	3	4C
FTEC 400 ^P	Food Safety	3	
FTEC 420^P	Quality Assessment of Food Products	3	4A
FTEC 430 ^P	Sensory Evaluation of Fermented Products	2	4A
FTEC 460	Brewing Science and Technology	3	
FTEC 492 ^P	Seminar: Fermentation Science and Technology	2	4C
MIP 334 ^P	Food Microbiology	3	
MIP 335 ^P	Food Microbiology Laboratory	2	
STAT 201 ^P	General Statistics	3	
OR			

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
STAT 204 ^P	Statistics for Business Students	3	
	Upper-division FSHN/RRM courses	6	
	Advanced courses ²	4	
	Electives ³	4 6-7	
	TOTAL	30-35	

PROGRAM TOTAL = 120 credits

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu> to see the course prerequisites.

¹ Select one course each from the list in category 3D, and 3E and two courses from 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 a minimum of 12 credits from the following: ACT 205, ANEQ 360, ANEQ 460, BC 351, BTEC 306/BIOM 306, ERHS 220, ERHS 332, MATH 125, MATH 126, MATH 141 or MATH 155, MGT 305, PH 121, RRM 330, RRM 400, SOCR 330, SOCR 430.

³ Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400-level).

The meeting adjourned at 4:00 p.m.

(D)

Carole Makela, Chair
Yvonne Bridgeman, Secretary

A regular meeting of the University Curriculum Committee was held on September 4, 2015, at 2:00 p.m.

Members present: Chair Carole Makela, Professors Bradley Goetz, Brad Reisfeld, Mike Hogan, Sally Sutton, Ed DeLosh, Beth Oehlerts, undergraduate representative Tyler Siri, Kathleen Pickering (ex-officio).

Absent: Paul Mallette, Howard Ramsdell, Graduate representative.

Guests: Yvonne Bridgeman, Kelley Brundage.

Minutes

The Minutes of August 28, 2015 were approved.

Experimental Course Report

There was no Experimental Course Report.

Consent Agenda

The Consent Agenda was approved.

CURRICULAR REQUESTS

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

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.

Major Change to Courses

Effective Date

FW 356 03(0-0-3). Leopold's Ethic for Wildlife and Land, **change to:**

Fall Semester 2016

FW 556 03(0-0-3). Leopold's Ethic for Wildlife and Land. F, S, SS.

Prerequisite: Bachelor's degree, or any level ecology or wildlife management course, or written consent of instructor.

Philosophy, art, history, and science of wildlife and land management from writings of Aldo Leopold.

[Approved as an online course and drop the correspondence component.]

FW 357 03(0-0-3). Wildlife Habitat on the Great Plains, **change to:**

Fall Semester 2016

FW 557 03(0-0-3). Wildlife Habitat on the Great Plains. F, S, SS.

Prerequisite: Bachelor's degree, or any level ecology or wildlife management course, or written consent of instructor.

Management of cover, food, and water for wildlife and fish on private lands. Emphasis on practices compatible with other uses of lands.

[Approved as an online course and drop the correspondence component.]

MATH 360 03(3-0-0). Mathematics of Information Security, **change to:**

Spring Semester 2016

MATH 360 03(3-0-0). Mathematics of Information Security. F.

Prerequisite: MATH 161; MATH 229 or MATH 369.

Codes, ciphers, Chinese remainder theorem, primality testing, public key ciphers, RSA, finite fields, discrete logarithms, AES encryption.

[Approved for AUCC category 4A for the concentration in Mathematics major: General Mathematics.]

MATH 366 03(3-0-0). Introduction to Abstract Algebra, **change to:** Spring Semester 2016

MATH 366 03(3-0-0). Introduction to Abstract Algebra. F, S, SS.
Prerequisite: MATH 161.
Sets, integers, polynomials, real and complex numbers, groups, integral domains, and fields; development of skills for proving theorems.

[Approved for AUCC category 4A for the concentrations in Mathematics major: Mathematics Education; General Mathematics.]

MATH 466 03(3-0-0). Abstract Algebra I, **change to:** Spring Semester 2016

MATH 466 03(3-0-0). Abstract Algebra I. F.
Prerequisite: MATH 235 or MATH 360 or MATH 366.
Comprehensive introduction to groups, rings, and fields.

[Approved for AUCC category 4A for the concentration in Mathematics major: General Mathematics.]

NR 300 03(2-0-1). Biological Diversity, **change to:** Spring Semester 2016

NR 300 03(3-0-0). Biological Diversity. S.
Prerequisite: NR 120A or NR 120B or one course in biology.
Biological diversity examined in context of species; extinction. Principles, techniques of conservation biology utilized to understand and resolve issues.

C minimum grade deleted from prerequisite(s) of these courses: Spring Semester 2016
(see attached for explanation and rationale)

- MECH 105 Mechanical Engineering Problem Solving.
- MECH 201 Engineering Design I.
- MECH 201 Engineering Design II.
- MECH 231 Engineering Experimentation.
- MECH 301 Engineering Design III
- MECH 302 Engineering Design III
- MECH 307 Mechatronics and Measurement Systems
- MECH 324 Dynamics of Machines
- MECH 325 Machine Design
- MECH 331 Introduction to Engineering Materials
- MECH 337 Thermodynamics
- MECH 338 Thermal/Fluid Sciences Laboratory
- MECH 342 Mechanics and Thermodynamics of Flow Processes
- MECH 344 Heat and Mass Transfer
- MECH 392 Graduate Education and Research Seminar
- MECH 402 Mechanical Engineering Experimental Analysis
- MECH 486A Engineering Design Practicum: I
- MECH 486B Engineering Design Practicum: II
- MECH 498A Engineering Research Practicum: Fall
- MECH 498B Engineering Research Practicum: Spring

New Curricula: Graduate Certificates

College of Engineering

Department of Electrical and Computer Engineering

Graduate Certificate in Computer Systems Engineering

Effective Fall 2016

This certificate may have courses in common with other graduate certificates. A person/student may earn more than one certificate, but a given course may be counted only in one certificate.

Additional coursework may be required due to prerequisites.

<u>Course</u>	<u>Title</u>	<u>Credits</u>
	<i>Select three courses from the following:¹</i>	
CS 530 ^P	Fault-Tolerant Computing	4
CS 545 ^P	Machine Learning	4
CS 556 ^P	Computer Security	4
CS 575 ^P	Parallel Processing	4
ECE 554 ^P	Computer Architecture	3
ECE 561 ^P	Hardware/Software Design of Embedded Systems	4
ECE 658 ^P	Internet Engineering	4
ECE 661 ^P	Advanced Topics in Embedded Systems	3
	<u>TOTAL</u>	<u>11</u>
		=
		<u>12</u>

PROGRAM TOTAL*

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu/> to see the course prerequisites.

¹ At least one ECE course is required.



College of Engineering

Department of Electrical and Computer Engineering

Graduate Certificate in Embedded Systems

Effective Fall 2016

This certificate may have courses in common with other graduate certificates. A person/student may earn more than one certificate, but a given course may be counted only in one certificate.

Additional coursework may be required due to prerequisites.

<u>Course</u>	<u>Title</u>	<u>Credits</u>
	<i>Select three courses from the following:¹</i>	
CS 545 ^P	Machine Learning	4
CS 560 ^P	Foundations of Fine-Grain Parallelism	4
CS 575 ^P	Parallel Processing	4
ECE 554 ^P	Computer Architecture	3
ECE 561 ^P	Hardware/Software Design of Embedded Systems	4
ECE 661 ^P	Advanced Topics in Embedded Systems	4
	<u>TOTAL</u>	<u>11</u>
		=
		<u>12</u>

PROGRAM TOTAL*

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu/> to see the course prerequisites.

¹ At least one ECE course is required.



**College of Health and Human Services
School of Education**

Graduate Certificate in Campus Crisis Management

Effective Fall 2016

This certificate may have courses in common with other graduate certificates. A person/student may earn more than one certificate, but a given course may be counted only in one certificate.

Additional coursework may be required due to prerequisites.

<u>Course</u>	<u>Title</u>	<u>Credits</u>
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REQUIRED COURSES

<u>EDHE 675^P</u>	<u>Campus Crisis Management</u>	<u>3</u>
<u>EDHE 677^P</u>	<u>Law in Student Affairs</u>	<u>3</u>
<u>EDUC 502^P</u>	<u>Human Relations in Education</u>	<u>3</u>

ELECTIVES

Select two from the following:

<u>EDHE 670^P</u>	<u>College Student Personnel Administration</u>	<u>3</u>
<u>EDHE 671</u>	<u>Higher Education Administration</u>	<u>3</u>
<u>EDHE 673^P</u>	<u>Student Development Theory</u>	<u>3</u>
<u>EDHE 676^P</u>	<u>Organizational Behavior in Student Affairs</u>	<u>3</u>

	<u>TOTAL</u>	<u>15</u>
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PROGRAM TOTAL*

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu> to see the course prerequisites.



**College of Health and Human Services
School of Education**

Graduate Certificate in Student Affairs Administration

Effective Fall 2016

This certificate may have courses in common with other graduate certificates. A person/student may earn more than one certificate, but a given course may be counted only in one certificate.

Additional coursework may be required due to prerequisites.

<u>Course</u>	<u>Title</u>	<u>Credits</u>
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<u>EDHE 660^P</u>	<u>Financial Management in Student Affairs</u>	<u>2</u>
<u>EDHE 670^P</u>	<u>College Student Personnel Administration</u>	<u>3</u>
<u>EDHE 673^P</u>	<u>Student Development Theory</u>	<u>3</u>
<u>EDHE 674^P</u>	<u>Campus Ecology</u>	<u>3</u>

	<u>TOTAL</u>	<u>11</u>
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PROGRAM TOTAL*

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu> to see the course prerequisites.



College of Health and Human Sciences
 School of Education
Graduate Certificate in Student Affairs Management of Auxiliary Enterprises

Effective Fall 2016

This certificate may have courses in common with other graduate certificates. A person/student may earn more than one certificate, but a given course may be counted only in one certificate.

Additional coursework may be required due to prerequisites.

<u>Course</u>	<u>Title</u>	<u>Credits</u>
REQUIRED COURSES		
BUS 620 ^P	Leadership and Teams	<u>2</u>
BUS 655 ^P	Marketing Management	<u>2</u>
EDHE 660 ^P	Financial Management in Student Affairs	<u>2</u>
EDHE 670 ^P	College Student Personnel Administration	<u>3</u>
ELECTIVES		
<i>Select one from the following:</i>		
BUS 621	Strategic Decision Making	<u>2</u>
BUS 626 ^P	Managing Human Capital	<u>2</u>
BUS 630 ^P	Information Management	<u>2</u>
<i>Select one from the following:</i>		
EDHE 673 ^P	Student Development Theory	<u>2</u>
EDHE 674 ^P	Campus Ecology	<u>2</u>
EDHE 676 ^P	Organizational Behavior in Student Affairs	<u>2</u>
TOTAL		14
PROGRAM TOTAL*		

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu> to see the course prerequisites.



Major Change to Curricula

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

Effective Fall 2016

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

To maintain professional standards required of practicing engineers, the Department of Electrical and Computer Engineering requires a cumulative grade point average of at least 2.000 in ECE courses as a graduation requirement. It is the responsibility of any student who fails to maintain a 2.000 average to work with his or her adviser to correct grade point deficiencies. In addition, it is required that students retake any Electrical Engineering course at the 300 level or below in which they receive a grade below C.

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
CO 150 ^P	College Composition	3	1A
CS 160 ^P	Foundations in Programming	4	
ECE 102 ^P	Digital Circuit Logic	4	
ECE 103 ^P	DC Circuit Analysis	3	
MATH 160 ^P	Calculus for Physical Scientists I	4	1B
MATH 161 ^P	Calculus for Physical Scientists II	4	1B
PH 141 ^P	Physics for Scientists and Engineers I	5	3A
	Historical Perspectives	3	3D

<u>Course</u>	<u>Title</u> <u>Electives</u> ¹	<u>Cr</u> <u>0-3</u>	<u>AUCC</u>
	Additional Requirements for Graduation ^{1,2}	0	
	TOTAL	30-33	

SOPHOMORE

CO	301B ^P	Writing in the Disciplines-Science	3	2
OR				
JTC	300 ^P	Professional and Technical Communication	3	2
CS	161 ^P	Object-Oriented Problem Solving	4	
CS	200 ^P	Algorithms and Data Structures	4	
ECE	202 ^P	Circuit Theory Applications	4	
ECE	251 ^P	Introduction to Microprocessors	4	
MATH	261 ^P	Calculus for Physical Scientists III	4	
<i>Select either MATH 229/MATH 345 combination, or MATH 340:</i>				
MATH	229 ^P	Matrices and Linear Equations ^{2,3}	2	
MATH	345 ^P	Differential Equations	4	
OR				
MATH	340 ^P	Introduction to Ordinary Differential Equations	5	
PH	142 ^P	Physics for Scientists and Engineers II	5	3A
		Additional Requirements for Graduation ^{1,2}	0	
		TOTAL	32-34	

JUNIOR

CS	253 ^P	Software Development with C++	4	
CS	320 ^P	Algorithms—Theory and Practice ^{3,4}	3	
OR				
ECE	332 ^P	Electronics Principles II ^{4,5}	4	
CS	370 ^P	System Architecture and Software	3	
ECE	311 ^P	Linear System Analysis I	3	
ECE	312 ^P	Linear System Analysis II	3	
ECE	331 ^P	Electronics Principles I	4	
ECE	450 ^P	Digital System Design Laboratory	1	
ECE	451 ^P	Digital System Design	3	
ECE	452 ^P	Computer Organization and Architecture	3	
		Arts and Humanities	3	3B
		Additional Requirements for Graduation ^{1,2}	0	
		TOTAL	30-31	

SENIOR

<i>Select 12 credits of Technical Electives from the following:</i> ^{5,6}				
CS	314 ^P	Software Engineering	3	
CS	320 ^P	Algorithms---Theory and Practice ⁷	3	
CS	356 ^P	Systems Security	3	
CS	4** ^P	CS course at the 400 level ^{5,6,8}	Var	
CS	5** ^P	CS course at the 500 level	Var	
ECE	4** ^P	ECE course at the 400 level ⁹	Var	
ECE	5** ^P	ECE course at the 500 level ¹⁰	Var	
GRAD	510 ^P	Fundamentals of High Performance Computing	3	
GRAD	511 ^P	High Performance Computing and Visualization	3	
ECE	303 ^P / STAT 303 ^P	Introduction to Communications Principles	3	
ECE	401 ^P	Senior Design Project I	3	4A, 4B

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
ECE 402 ^P	Senior Design Project II	3	4C
ECE 456 ^P	Computer Networks	4	
ECON 202 ^P	Principles of Microeconomics	3	3C
	Arts and Humanities	3	3B
	Global and Cultural Awareness	3	3E
	Additional Requirements for Graduation ⁺²	0	
	TOTAL	34	

PROGRAM TOTAL = 126 129 credits

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu> to see the course prerequisites.

¹ Students may use up to 3 credits of free electives to reach the required total of 129 credits.

⁺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.

²³ MATH 369 is recommended for students interested in the Mathematics minor. See advisor for substitutions.

²⁴ CS-301 (followed by CS 453 in the senior year) is recommended for students interested in specializing in computer system design.

⁴⁵ ECE 332 is recommended for students interested in specializing in VLSI.

⁵⁶ CS-453 is recommended as one of the electives for students interested in specializing in computer system design.

⁷ CS-320 may count as a Technical Elective ONLY when ECE 332 is also taken. ECE 332 will be applied toward junior year requirement. The course cannot count as credit toward both requirements.

⁸ Excluding CS 457 and CS 470.

⁹ 3 credits of ECE 495 may apply toward degree requirements.

¹⁰ Excluding ECE 501, ECE 530, ECE 531, ECE 532, ECE 567.

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

Effective Fall 2016

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

To maintain professional standards required of practicing engineers, the Department of Electrical and Computer Engineering requires a cumulative grade point average of at least 2.000 in ECE courses as a graduation requirement. It is the responsibility of any student who fails to maintain a 2.000 average to work with his or her adviser to correct grade point deficiencies. In addition, it is required that students retake any Electrical Engineering course at the 300 level or below in which they receive a grade below C.

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
CO 150 ^P	College Composition	3	1A
<i>Select 3-4 credits from the following:</i>			
CS 155 ^P	Introduction to Unix	1	
CS 156 ^P	Introduction to C Programming I	1	
CS 157 ^P	Introduction to C Programming II	1	
CS 160 ^P	Foundations in Programming	4	
ECE 102 ^P	Digital Circuit Logic	4	
ECE 103 ^P	DC Circuit Analysis	3	
MATH 160 ^P	Calculus for Physical Scientists I	4	1B
MATH 161 ^P	Calculus for Physical Scientists II	4	1B
PH 141 ^P	Physics for Scientists and Engineers I	5	3A
	Historical Perspectives	3	3D

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
	Electives ¹	3-4	
	Additional Requirements for Graduation ^{4,2}	0	
	TOTAL	<u>29-30</u>	
		32-33	
SOPHOMORE			
CHEM 111 ^P	General Chemistry I	4	3A
ECE 202 ^P	Circuit Theory Applications	4	
ECE 251 ^P	Introduction to Microprocessors	4	
MATH 261 ^P	Calculus for Physical Scientists III	4	
MATH 340 ^P	Introduction to Ordinary Differential Equations	4	
OR			
MATH 345 ^P	Differential Equations	4	
PH 142 ^P	Physics for Scientists and Engineers II	5	3A
	Science/Math/Engineering Elective ^{2,3}	6	
	Additional Requirements for Graduation ^{1,2}	0	
	TOTAL	<u>31</u>	
JUNIOR			
CO 301B ^P	Writing in the Disciplines-Science	3	
OR			
JTC 300 ^P	Algorithms—Theory and Practice ^{3,4}	3	
ECE 303 ^P / STAT 303 ^P	Introduction to Communication Principles	3	
ECE 311 ^P	Linear System Analysis I	3	
ECE 312 ^P	Linear System Analysis II	3	
ECE 331 ^P	Electronics Principles I	4	
ECE 332 ^P	Electronics Principles II	4	4A
ECE 341 ^P	Electromagnetic Fields and Devices I	3	
ECE 342 ^P	Electromagnetic Fields and Devices II	3	
	Global and Cultural Awareness	3	3E
	Science/Math/Engineering Electives ^{2,3}		
	Additional Requirements for Graduation ^{4,2}	0	
	TOTAL	<u>32</u>	
SENIOR			
ECE 401 ^P	Senior Design Project I	3	4A, 4B
ECE 402 ^P	Senior Design Project II	3	4C
ECON 202 ^P	Principles of Microeconomics	3	3C
	Arts and Humanities	6	3B
	Technical Electives (see list below)	18	
	Additional Requirements for Graduation ¹	0	
	TOTAL	<u>33</u>	
PROGRAM TOTAL = 125-126-129 credits			
TECHNICAL ELECTIVES			
<i>Select a minimum of 18 credits from the following:</i>			
BIOM 470 ^P / MECH 470 ^P	Biomedical Engineering	3	
BIOM 570 ^P / MECH 570 ^P	Bioengineering	3	
CS 314 ^P	Software Engineering	3	
CS 320 ^P	Algorithms—Theory and Practice	3	
CS 356 ^P	Systems Security	3	
CS 410 ^P	Introduction to Computer Graphics	4	

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
CS 414 ^P	Object-Oriented Design	4	
CS 420 ^P	Introduction to Analysis of Algorithms	4	
CS 430 ^P	Database Systems	4	
CS 440 ^P	Introduction to Artificial Intelligence	4	
CS 453 ^P	Introduction to Compiler Construction	4	
CS 455 ^P	Introduction to Distributed Systems	4	
CS 475 ^P	Parallel Programming	4	
CS 510 ^P	Image Computation	4	
CS 520 ^P	Analysis of Algorithms	4	
CS 540 ^P	Artificial Intelligence	4	
CS 545 ^P	Machine Learning	4	
CS 556 ^P	Computer Security	4	
ECE 4**	Any ECE course at the 400 level	Var	
ECE 495 ^P	Independent Study	Var	
ECE 5**	Any ECE course at the 500 level	Var	
GRAD 510	Fundamentals of High Performance Computing	3	
MATH 419 ^P	Introduction to Complex Variables	3	
MATH 450 ^P	Introduction to Numerical Analysis I	3	
MATH 451 ^P	Introduction to Numerical Analysis II	3	
MATH 470 ^P	Euclidian and Non-Euclidian Geometry	3	
PH 315 ^P	Modern Physics Laboratory	2	
PH 425 ^P	Advanced Physics Laboratory	2	
PH 451 ^P	Introductory Quantum Mechanics I	3	
PH 452 ^P	Introduction to Quantum Mechanics II	3	
PH 462 ^P	Statistical Physics	3	

SCIENCE/MATH ENGINEERING ELECTIVES³

<u>Select a minimum of 8 credits from the following:</u>		
BC 351 ^P	Principles of Biochemistry	4
BIOM 306 ^{P/}	Bioprocess Engineering	4
BTEC 306 ^P		
BMS 300 ^P	Principles of Human Physiology	4
BMS 301 ^P	Human Gross Anatomy	5
BMS 325 ^P	Cellular Neurobiology	3
BMS 345 ^P	Functional Neuroanatomy	4
BZ 310 ^P	Cell Biology	4
CHEM 112 ^P	General Chemistry Lab I	1
CHEM 245 ^P	Fundamentals of Organic Chemistry	4
CHEM 246 ^P	Fundamentals of Organic Chemistry Lab	1
CHEM 345 ^P	Organic Chemistry I	4
CIVE 260 ^P	Engineering Mechanics – Statics	3
CS 122 ^P	Theory for Introductory Programming	1
CS 155 ^P	Introduction to Unix ⁴	1
CS 156 ^P	Introduction to C Programming I ⁴	1
CS 157 ^P	Introduction to C Programming II ⁴	1
CS 161 ^P	Object Oriented Problem Solving	4
CS 200 ^P	Algorithms and Data Structures	4
CS 253 ^P	Problem Solving with C++	4
CS 370 ^P	System Architecture and Software	4

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
ECE 395 ^P	Independent Study ⁵		
HES 307 ^P	Biomechanical Principles of Human Movement	3	
LIFE 103 ^P	Biology of Organisms – Animals & Plants	4	
MATH 151 ^P	Mathematical Algorithms in Matlab I	1	
MATH 229 ^P	Matrices and Linear Equations	2	
MATH 332 ^P	Partial Differential Equations	3	
MATH 366 ^P	Introduction to Abstract Algebra	3	
MATH 369 ^P	Linear Algebra I	3	
MECH 237 ^P	Introduction to Thermal Science ⁶	3	
MECH 303 ^P	Energy Engineering	3	
MECH 337 ^P	Thermodynamics ⁶	4	
MIP 300 ^P	General Microbiology	3	
PH 314 ^P	Introduction to Modern Physics	4	
PH 341 ^P	Mechanics	4	
PH 353 ^P	Optics and Waves	4	

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu> to see the course prerequisites.

¹ Student may use up to 4 credits of free electives to reach the required total of 129 credits.

³² 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.

²³ Select courses from the appropriate departmental list of approved courses.

⁴ CS 155, 156 and 157 count as Science/Math/Engineering Electives ONLY when CS 160 is also taken. CS 160 will be applied toward the freshman year requirement.

⁵ A total of 6 credits of Independent Study may apply toward degree requirements. This includes credits awarded for ECE 395 and ECE 495 combined.

⁶ Credit not allowed for both MECH 237 and MECH 337.

**College of Natural Sciences
Department of Mathematics
Major in Mathematics
General Mathematics Concentration**

Effective Spring 2016

(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.

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
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	
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

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
	Elective ⁵	2-3-3-4	
	TOTAL	<u>30-31</u>	
SOPHOMORE			
CS 160	<i>Select either CS 160 or a group of four courses from below as described, for a total of 4 credits:</i> Foundations in Programming	4	
	OR <i>Select CS 155 and CS 156, plus two courses from among the four below them:</i>		
CS 155	Introduction to Unix	1	
CS 156 ^P	Introduction to C Programming I	1	
	<i>And two of the following:</i>		
CS 157 ^P	Introduction to C Programming II	1	
CS 158 ^P / MATH 158 ^P	Mathematical Algorithms in C	1	
MATH 151 ^P	Mathematical Algorithms in Matlab I	1	
MATH 152 ^P	Mathematical Algorithms in Maple	1	
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
	TOTAL	<u>29</u>	
JUNIOR			
MATH 317 ^P	Advanced Calculus of One Variable ^{8,9,7,8}	4	4B
	OR		
MATH 417 ^P	Advanced Calculus I ^{8,9,7,8}	3	4B, 4C
MATH 340 ^P	Introduction to Ordinary Differential Equations	4	
	OR		
MATH 345 ^P	Differential Equations	4	
	<i>Select one of the following courses^{9,8}</i>		
MATH 360 ^P	Mathematics of Information Security ^{8,7}	3	4A
MATH 366 ^P	Introduction to Abstract Algebra ^{8,7}	3	4A
MATH 466 ^P	Abstract Algebra I ^{9,8}	3	4A,4C
	Biological and Physical sciences ^{10,9}	3	3A
	Mathematical Sciences Electives ^{9,11,8,10}	6	
	Electives ⁵	11	
	TOTAL	<u>30-31</u>	
SENIOR			
	<i>Select one of the following:</i>		
MATH 417 ^P	Advanced Calculus I ^{8,7}	3	
MATH 418 ^P	Advanced Calculus II ^{8,7}	3	
MATH 466 ^P	Abstract Algebra I	3	4A,4C
MATH 467 ^P	Abstract Algebra II ^{8,7}	3	
	Mathematical Sciences Electives ^{9,11,8,10}	12	
	Electives ⁵	14-16	
	TOTAL	<u>29-31</u>	
PROGRAM TOTAL = 120 credits			

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu> 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 in 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.
- ^{8,7} At least 12 credits of **ALL** upper division MATH courses must be at the 400-level or above.
- ^{9,8} These courses are in addition to the 18 credits of Mathematical Sciences Electives required in footnote 87, and may not be used to fulfill the Mathematical Sciences Electives requirement.
- ^{10,9} Select a non-physics course from category 3A in the AUCC.
- ^{11,10} 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.



**College of Natural Sciences
 Department of Mathematics
 Major in Mathematics
 Mathematics Education Concentration**

Effective Spring 2016

(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.

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
CO 150 ^P	College Composition	3	1A
CS 160 ^P	Foundations in Programming	4	
	<u>OR</u> ⁵		
CS 155	Introduction to Unix	1	
CS 156 ^P	Introduction to C Programming I	1	
	<i>AND Select at least two of the following for a total of 4 credits:</i>		
CS 157 ^P	Introduction to C Programming II	1	
CS 158 ^{P/}	Mathematical Algorithms in C	1	
MATH 158 ^P			
MATH 151 ^P	Mathematical Algorithms in Matlab I	1	
MATH 152 ^P	Mathematical Algorithms in Maple	1	
MATH 160 ^P	Calculus for Physical Scientists I	4	1B
MATH 161 ^P	Calculus for Physical Scientists II	4	1B
MATH 192	First Year Seminar in Mathematical Sciences	1	
STAT 192	First Year Seminar in Statistics	+	
	Arts and Humanities ²¹	6	3B
	Global and Cultural Awareness ³²	3	3E
	Historical Perspectives ⁴³	3	3D
	Electives	<u>-5</u>	
	TOTAL	<u>30</u>	
SOPHOMORE			
CS 160 ^P	Foundations in Programming	4	
	<u>OR</u> ⁵		
CS 155	Introduction to Unix	1	
CS 156 ^P	Introduction to C Programming I	1	
	<i>AND Select at least two of the following for a total of 4 credits:</i>		
CS 157 ^P	Introduction to C Programming II	1	
CS 158 ^{P/}	Mathematical Algorithms in C	1	
MATH 158 ^P			
MATH 151 ^P	Mathematical Algorithms in Matlab I	1	
MATH 152 ^P	Mathematical Algorithms in Maple	1	

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
EDUC 275 ^P	Schooling in the United States	3	3C
EDUC 340 ^P	Literacy and the Learner	3	
MATH 261 ^P	Calculus for Physical Scientists III	4	
MATH 230 ^P	Discrete Mathematics for Educators	3	
<u>MATH 369^P</u>	<u>Linear Algebra</u>	<u>3</u>	
PH 141 ^P	Physics for Scientists and Engineers I ^{6 4}	5	3A
STAT 315^P	Statistics for Engineers and Scientists	3	
	Advanced Writing ⁷⁵	3	2
	Biological and Physical Sciences ⁶⁴	4	3A
	<u>Electives</u>	<u>3</u>	
	TOTAL	<u>32 31</u>	
JUNIOR			
EDUC 331 ^P	Educational Technology and Assessment	2	
EDUC 350 ^P	Instruction I-Individualization/Management	3	
EDUC 386 ^P	Practicum-Instruction I	1	
EDUC 464 ^P	Methods and Materials in Teaching Mathematics	4	
MATH 317 ^P	Advanced Calculus of One Variable	4	4B
MATH 366 ^P	Introduction to Abstract Algebra	3	<u>4A</u>
MATH 369^P	Linear Algebra	3	4A
MATH 470 ^P	Euclidean and Non-Euclidean Geometry	3	
<u>STAT 315^P</u>	<u>Statistics for Engineers and Scientists</u>	<u>3</u>	
	Additional Biological and Physical Sciences ⁶⁴	4	3A
	Mathematical Sciences Elective ⁸ Elective ⁶	3	
	<u>Electives</u>	<u>2</u>	
	TOTAL	<u>30 32</u>	
SENIOR			
EDUC 450 ^P	Instruction II-Standards and Assessment	4	
EDUC 485B ^P	Student Teaching-Secondary	11	
EDUC 486E ^P	Practicum-Instruction II	1	
EDUC 493A ^P	Seminar-Professional Relations	1	
MATH 425 ^P	History of Mathematics	3	4C
	Electives ⁴	<u>8 7</u>	
	TOTAL	<u>28 27</u>	

PROGRAM TOTAL = 120 credits

^P This course has at least one prerequisite. Check the Courses A-Z at <http://catalog.colostate.edu> to see the course prerequisites.

¹ Students must take either CS 160 (4 credits) or CS 155 and CS 156 plus two of the following courses: CS 157, MATH 151, MATH 152, and/or MATH 158/CS 158.

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 courses in category 3D in the AUCC.

⁵ Students must take either CS 160 (4 credits) or CS 155 and CS 156 plus two of the following courses: CS 157, MATH 151, MATH 152, and/or MATH 158/CS 158.

⁶⁴ Students in this major must take a minimum of 13 credits from at least two subject codes, selected from category 3A, Biological and Physical Sciences, in the AUCC. At least one course must include a laboratory.

⁷⁵ Select one course from the list of courses in category 2 of in the AUCC.

⁸⁶ Select from STAT 420, STAT 430, or upper-division mathematics courses except MATH 315 and those ending in -80 to -99.



The meeting adjourned at 3:55 p.m.

(D)

Carole Makela, Chair
Yvonne Bridgeman, Secretary

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BALLOT
October 6, 2015
Graduate and Undergraduate Student Positions on Faculty Council Standing Committees
(One-Year Term)

<u>Committee on Teaching and Learning</u>		Term Expires
NICHOLAS KACHER	Graduate	2016
JORDAN PAULUS	Undergraduate	2016
<u>Committee on Strategic and Financial Planning</u>		
HANNAH PAULY	Graduate	2016
<u>Committee on University Programs</u>		
SAM LAFFEY	Undergraduate	2016

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BALLOT
University Committee Nominations
UNIVERSITY BENEFITS COMMITTEE
October 6, 2015

PATTY STUTZ-TANENBAUM
(Nominated by Committee on Faculty Governance)

Non-Tenure Track Faculty

2018

September 9, 2015

TO: Mary Stromberger, Chair
Executive Committee and Faculty Council

FROM: Carole Makela, Chair
University Curriculum Committee

SUBJECT: Request for a new major in Human Dimensions of Natural Resources, B.S.

The University Curriculum Committee moves Faculty Council adopt the following:

A new major in Human Dimensions of Natural Resources (B.S.) be established effective Spring 2016.

Rationale:

According to the request submitted:

Currently students in our Parks and Protected Area Management (PPAM) and Environmental Communication (EC) concentrations graduate with a BS degree in "Natural Resource Recreation and Tourism" (NRRT). We are proposing to combine and convert these concentrations into a new major to:

- (1) Accurately capture, through a more contemporary title, the range of expertise EC/PPAM students now receive;
- (2) Strengthen our ability to prepare students as future conservation and natural resource professionals; and
- (3) Keep stride with the desired future direction of our department which in recent years has experienced a name change (formerly Natural Resource Recreation and Tourism, same as the major) reflecting our emphasis on social science applications to support conservation.

The new major would include remnants of the two existing concentrations' curricula as well as several new recently-approved courses to complement existing offerings and augment the desired skill set. We conducted a survey of natural resource agency/organization partners in 2012 to inform development of this new major. Informed by this survey, our rationale for combining the two concentrations is that EC and PPAM are two important areas of emphasis that we believe are necessary components of the new major, which has been broadened in scope to provide for a more comprehensive skill set for conservation professionals. The new major will also build upon content and lessons learned from the Conservation Leadership through Learning graduate program.

The request was reviewed and approved by the University Curriculum Committee on May 8, 2015.

Enclosure

NEW/MAJOR/MINOR PROGRAMS OF STUDY-CURRICULAR REQUESTS

CONTACT PLEASE PRINT: NAME Dr. Tara Teel EMAIL tteel@lamar.colostate.edu PHONE 491-7729
(REQUIRED)

CHECK THE APPROPRIATE BOX ON THE FAR LEFT. See Curricular Policies and Procedures Handbook, available at <http://www.colostate.edu/orgs/ucc> for instructions.

ADDS

- ADD a new department and/or college. (Complete Section I-Column B and Section II.)
- ADD a new degree or major or concentration or option or minor or interdisciplinary studies program. (Complete Section I-Column B, Section II, and Section III-Column B.)

MAJOR CHANGES

- CHANGE the name of an existing department and/or college. (Complete Section I-Column A, only changed item(s) in Section I-Column B, and Section II.)
- CHANGE the name of a degree or major or concentration or option or minor or interdisciplinary studies program. (Complete Section I-Column A, only changed item(s) in Section I-Column B, and Section II.)
- CHANGE the curriculum requirements of an approved major or concentration or option or minor or interdisciplinary studies program involving a sum total of 7 or more credits. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)
- CHANGE AUCC Category 4 requirements of an approved major or concentration. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)
- DROP a degree or major or concentration or option or minor or interdisciplinary studies program and requirements. (Complete Section I-Column A and Section II.)

MINOR CHANGES

- CHANGE the curriculum requirements of an approved major or concentration or option or minor or interdisciplinary studies program involving a sum total of less than 7 credits. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)
- CHANGE courses and/or group requirements from freshman/sophomore year to junior/senior year or vice versa in an approved major or concentration or option or minor or interdisciplinary studies program. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)

SECTION I

A. PRESENT NAME	B. REQUESTED NAME
Warner Natural Resources	
Human Dimensions of Natural Resources	
COLLEGE	
DEPARTMENT	
MAJOR	Human Dimensions of Natural Resources
UNDERGRADUATE CONCENTRATION/ GRADUATE SPECIALIZATION	
OPTION	
MINOR	
INTERDISCIPLINARY STUDIES PROGRAM	
DEGREE	B.S.

EFFECTIVE DATE (TERM AND YEAR) REQUESTED Fall 2015 SP 16

SECTION II-JUSTIFICATION FOR REQUEST

Currently students in our Parks and Protected Area Management (PPAM) and Environmental Communication (EC) concentrations graduate with a BS degree in "Natural Resource Recreation and Tourism" (NRRT). We are proposing to combine and convert these concentrations into a new major to: (1) accurately capture, through a more contemporary title, the range of expertise that EC/PPAM students receive; (2) strengthen our ability to prepare students as future conservation and natural resource professionals; and (3) keep stride with the desired future direction of our department which in recent years has experienced a name change (formerly Natural Resource Recreation and Tourism, same as the major) reflecting our emphasis on social science applications to support conservation. The new major would include remnants of the two existing concentrations and curricula as well as several new recently-approved courses to complement existing offerings and augment the desired skill set. We conducted a survey of natural resource agency/organization partners in 2012 to inform development of this new major. The new major will also build upon content and lessons learned from our new Conservation Leadership through Learning graduate program.

Note: rather than request a change of major, we have proposed this as a new major given that we still have two other concentrations under the umbrella of NRRT (Natural Resource Tourism, and Global Tourism).

SECTION III (SEE PG. 2)

SECTION IV-SIGNATURES OF AFFECTED DEPARTMENTS (SEE PG. 3)

CHANNELS FOR APPROVAL	DATE
Department Head/ Chairperson <i>[Signature]</i>	2/17/15
Chairperson, College Curriculum Committee <i>[Signature]</i>	3/17/15
Dean of College <i>[Signature]</i>	2/17/15

*Signature indicates approval and a commitment of resources.

CURRICULUM & CATALOG USE	Approval Date
Comm. On Scholarship, Research, and Graduate Education (CoSRGE)	_____
University Curriculum Committee	MAY 11 2 2015
Faculty Council	5/12/15
Approved Effective Date	SP 16 <i>[Signature]</i>

Call 1-1451, Curriculum and Catalog Administration, for information.

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PROPOSAL FORM

APR 01 2015

2 of 4

SECTION II-JUSTIFICATION FOR REQUEST

(revised based on feedback from UCC for new major request form 4-6-15)

Currently students in our Parks and Protected Area Management (PPAM) and Environmental Communication (EC) concentrations graduate with a BS degree in "Natural Resource Recreation and Tourism" (NRRT). We are proposing to combine and convert these concentrations into a new major to: (1) accurately capture, through a more contemporary title, the range of expertise that EC/PPAM students receive; (2) strengthen our ability to prepare students as future conservation and natural resource professionals; and (3) keep stride with the desired future direction of our department which in recent years has experienced a name change (formerly Natural Resource Recreation and Tourism, same as the major) reflecting our emphasis on social science applications to support conservation. The new major would include remnants of the two existing concentrations and curricula as well as several new recently-approved courses to complement existing offerings and augment the desired skill set. We conducted a survey of natural resource agency/organization partners in 2012 to inform development of this new major. Informed by this survey, our rationale for combining the two concentrations is that EC and PPAM are two important areas of emphasis that we believe are necessary components of the new major which has now been broadened in scope to provide for a more comprehensive skillset for conservation professionals. The new major will also build upon content and lessons learned from our new Conservation Leadership through Learning graduate program.

Note: rather than request a change of major, we have proposed this as a new major given that we still have two other concentrations under the umbrella of NRRT (Natural Resource Tourism, and Global Tourism).

SECTION III-LISTING OF CURRICULUM REQUIREMENTS

A. For EXISTING PROGRAMS ONLY, contact Curriculum and Catalog to request a current program of study, which will be pasted below in this column for you.

Curriculum and Catalog: 1-1451 or 1-1578.

B. For NEW PROGRAMS, put the ENTIRE NEW PROGRAM below in this column.

For changes to EXISTING PROGRAMS, LIST ONLY PROPOSED CHANGES (CHANGES, DROPS, AND ADDS). (For examples, see Appendices in the *Curricular Policies and Procedures Handbook*.)

INCLUDE: Course subject code, number, title, number of credits, and AUCC designation (if appropriate). Note superscript "P" after course number if course has a prerequisite.

YEAR ONE

Credits/Course subject code, number, title/AUCC designation

4-BZ 120 Principles of Plant Biology or

BZ110 & 111 Principles of Animal Biology & Lab-3A

3-Select course from AUCC Biological/Physical Sciences course list-3A

3-CO 150^P College Composition-1A

1-MATH 117^P College Algebra in Context I-1B

1-MATH 118^P College Algebra in Context II-1B

1-MATH 124^P Logarithmic & Exponential Function-1B

3-Select course from AUCC Social/Behavioral Sciences course list-3C

6-Select courses from AUCC Arts & Humanities course list-3B

3-SPCM 200 Public Speaking

3-Elective

YEAR TWO

3-LIFE 220/LAND 220^P Fundamentals of Ecology-3A

3-Select course from AUCC Global & Cultural Awareness course list-3E

3-NRRT 262 Principles of Environmental Communication

3-NRRT 231 Principles of Park and Protected Area Management

3-STAT 201^P General Statistics

3-JTC 300^P Professional & Technical Communication or

CO 301-B^P Writing in the Disciplines or

CO 300^P Writing Arguments-2

5-Electives

6-Select two upper or lower-division courses from guided electives list

SUMMER

5-NR 220^P Natural Resource Ecology and Measurements or

NR 382 A-B Social-Ecological Field Methods

YEAR THREE

3-NRRT 330 Social Aspects of Natural Resource Management

3-NRRT 376^P Human Dimensions Research and Analysis

3-NRRT 301^P Conservation Leadership

3-NR 300^P Biological Diversity

3-NRRT 340^P Principles in Conservation Planning and Mgmt

3-NRRT 440^P Applications in Environmental Communication

1-NR 387 Internship I

3-NR 320 Natural Resource History and Policy-3D

4-NR 319^P Geospatial Applications in Natural Resources

3-Select one upper-division course from guided electives list

YEAR FOUR

3-NRRT 400^P Environmental Governance

3-NR 440^P Applications in Conservation Planning

3-NRRT 401^P Collaborative Conservation-4A

3-NRRT 362^P Environmental Conflict Management

3-NR 310^P Ecosystem Services and Human Well-Being

3-NRRT 463^P Non-Profit Administration in Conservation

3-NRRT 431^P Protected Areas, Working Lands and Livelihoods-4B,4C

3-Select one upper-division course from guided electives list

5-NRRT 487^P Internship

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SECTION IV - SIGNATURES OF AFFECTED DEPARTMENTS
(Required before consideration by University Curriculum Committee)

Affected departments include any department outside the home department, whose course is used in the program. Affected departments might also include other departments offering a program with similar or overlapping content.

This proposal for a curricular change or addition of a program of study has been reviewed and agreed to by the following departments affected by the changes.

Signature	Department	Date
<i>[Handwritten Signature]</i>	<i>[Handwritten Department]</i>	<i>[Handwritten Date]</i>
Signature	Department	Date
<i>[Handwritten Signature]</i>	<i>[Handwritten Department]</i>	<i>[Handwritten Date]</i>
Signature	Department	Date
<i>[Handwritten Signature]</i>	<i>[Handwritten Department]</i>	<i>[Handwritten Date]</i>
Signature	Department	Date

COLORADO STATE UNIVERSITY SS
 DEPARTMENT OF HUMAN DIMENSIONS OF NATURAL RESOURCES
 CURRICULUM GUIDE FOR

509

B.S. Human Dimensions of Natural Resources

With an emphasis on the social aspects of conservation issues, this major prepares students for professional positions with public, private, and non-governmental organizations that relate to the management and conservation of natural resources. Curriculum for this major will train students in the areas of communication, leadership, collaborative conservation, conflict management, stakeholder processes, public relations, social science concepts and methodologies for conservation, environmental governance, planning and policy, ecosystem services, and protected area and land management practices. Program requirements and course prerequisites/schedules will change periodically. It is the student's responsibility to check with their advisor each semester. (Total credits = 120).

Student Name: _____ Expected Graduation Date: _____

Semester/ Transfer	Credits	Course	AUCC Category	
YEAR ONE (Total 28 Credits)				
_____	Bio/Phys Sci	4	BZ 120 Principles of Plant Biology F, S OR BZ 110 & 111 Principles of Animal Biology & Lab F, S, SS	3A
_____	Bio/Phys Sci	3	Select course from AUCC Biological/Physical Sciences course list F, S, SS	3A
_____	Writing	3	CO 150 College Composition (SAT critical reading score of 600 or above or ACT English score of 26 or above or composition placement/challenge exam (score of 3, 4, or 5) or CO 130. For students registered at CSU prior to Fall 2008, SAT verbal score of 500 or above or ACT English score of 20 or above.) F, S, SS	1A
_____	Math	1	MATH 117 College Algebra in Context I (Satisfactory performance on the Colorado State Mathematics Placement Exam) F, S, SS	1B
_____	Math	1	MATH 118 College Algebra in Context II (MATH 117 or placement) F, S, SS	1B
_____	Math	1	MATH 124 Logarithmic & Exponential Function (MATH118 or placement) F, S, SS	1B
_____	Soc/Beh	3	Select course from AUCC Social/Behavioral Sciences course list F, S, SS	3C
_____	Arts/Hum	6	Select courses from AUCC Arts & Humanities list F, S, SS	3B
_____	Speech	3	SPCM 200 Public Speaking F, S, SS	
_____	Electives	3	Elective: _____	
YEAR TWO (Total 29 credits)				
_____	Ecology	3	LIFE 220/LAND 220 Fundamentals of Ecology (3 credits of 100-level biology or HORT 100; 3 credits of 100-level mathematics) F	3A
_____	Cultural	3	Select course from AUCC Global and Cultural Awareness list F, S, SS	3E
_____	Env Comm	3	NRRT 262 Principles of Environmental Communication S	
_____	Nat Res	3	NRRT 231 Principles of Park and Protected Area Management F	
_____	Statistics	3	STAT 201 General Statistics (Mathematics placement exam or one credit of 100-level mathematics.) F, S, SS	
_____	Writing	3	JTC 300 Professional & Technical Communication (CO150 or HONR193) F, S, SS OR CO 301-B Writing in the Disciplines (CO 150 or HONR 193) F, S, SS OR CO 300 Writing Arguments (CO 150) F, S, SS	2
_____	Electives	5	Electives: _____	
_____	Electives	6	Select two upper or lower-division courses from guided electives list (see reverse side):	
SUMMER (Total 5 credits)				
_____	Field Course	5	NR 220 Natural Resource Ecology and Measurements (BZ110 & BZ111 or BZ120 or LIFE 103; MATH 118 or one course from MATH 141 to 161 or one course from MATH 229 or higher) SS OR NR 382 A-B Social-Ecological Field Methods SS	
YEAR THREE (Total 29 Credits)				
_____	Nat Res	3	NRRT 330 Social Aspects of Natural Resource Management F, S	
_____	Nat Res	3	NRRT 376 Human Dimensions Research and Analysis (STAT201) F, S	
_____	Major	3	NRRT 301 Conservation Leadership (NRRT 262; NRRT 231) F	
_____	Nat Res	3	NR 300 Biological Diversity (NR 120A or NR 120B or one course in biology) S	
_____	Major	3	NRRT 340 Principles in Conservation Planning and Mgmt (NRRT 231) F	
_____	Major	3	NRRT 440 Applications in Environmental Communication (NRRT 262) S	
_____	Internship	1	NR 387 Internship I F	
_____	Nat Res	3	NR 320 Natural Resources History and Policy F,S	3D
_____	Nat Res	4	NR 319 Geospatial Applications in Natural Resources (Junior Standing) F,S	
_____	Electives	3	Select one upper-division course from guided electives list (see reverse side) : _____	
YEAR FOUR (Total 29 Credits)				
_____	Major	3	NRRT 400 Environmental Governance (NRRT 231) F	
_____	Major	3	NR 440 Applications in Conservation Planning (NRRT 340) F	
_____	Major	3	NRRT 401 Collaborative Conservation (NRRT 262 or NRRT 231) F	4A
_____	Major	3	NRRT 362 Environmental Conflict Management (NRRT 262) F	
_____	Major	3	NR 310 Ecosystem Services and Human Well-Being (AREC 202 or ECON 202 or ESS 211 or LAND 220/LIFE 220) S	
_____	Major	3	NRRT 463 Non-Profit Administration in Conservation (NRRT 231; NRRT 262) S	
_____	Capstone	3	NRRT 431 Protected Areas, Working Lands, Livelihoods (NRRT 231; LAND 220/LIFE 220) S	4B, 4C
_____	Electives	3	Select one upper-division course from guided electives list (see reverse side) : _____	
_____	Internship	5	NRRT 487 Internship (NR 387) F, S, SS Location: _____	

F = Fall Semester, S = Spring Semester, SS = Summer Session

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Warner College of Natural Resources
 Department of Human Dimensions of Natural Resources
 Major in Human Dimensions of Natural Resources

Effective Spring 2016

(The entire program is shown.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
<i>Select 4 credits from the following:</i>			
BZ 110	Principles of Animal Biology	3	3A
BZ 111 ^P	Animal Biology Laboratory	1	3A
OR			
BZ 120 ^P	Principles of Plant Biology	4	3A
CO 150 ^P	College Composition	3	1A
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 Functions	1	1B
SPCM 200	Public Speaking	3	
	Arts and Humanities ¹	6	3B
	Biological and Physical Sciences ²	3	3A
	Social and Behavioral Sciences ³	3	3C
	Elective	3	
	TOTAL	28	
SOPHOMORE			
<i>Select one of the following courses:</i>			
CO 300 ^P	Writing Arguments	3	2
CO 301B ^P	Writing in the Disciplines: Sciences	3	2
JTC 300 ^P	Professional and Technical Communication	3	2
LAND 220 ^P /	Fundamentals of Ecology	3	3A
LIFE 220 ^P			
NRRT 231	Principles—Parks/Protected Area Management	3	
NRRT 262	Principles of Environmental Communications	3	
STAT 201 ^P	General Statistics	3	
	Global and Cultural Awareness ⁴	3	3E
	Guided Electives ⁵	6	
	Electives ⁶	5	
	TOTAL	29	
SUMMER			
NR 220 ^P	Natural Resources Ecology and Measurements	5	
OR			
NR 382A-B	Social-Ecological Field Methods	5	
	TOTAL	5	
JUNIOR			
NR 300 ^P	Biological Diversity	3	
NR 319 ^P	Geospatial Applications in Natural Resources	4	
NR 320	Natural Resources History and Policy	3	3D
NR 330 ^P	Human Dimensions in Natural Resources	3	
NR 387	Internship I	1	
NRRT 301 ^P	Conservation Leadership	3	
NRRT 340 ^P	Principles in Conservation Planning and Mgmt	3	
NRRT 376 ^P	Human Dimensions Research and Analysis	3	
NRRT 440 ^P	Applications in Environmental Communication	3	
	Guided Electives ⁷	3	

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
	TOTAL	<u>29</u>	
SENIOR			
NR 310 ^P	<u>Ecosystem Services and Human Well-Being</u>	<u>3</u>	
NR 440 ^P	<u>Applications in Conservation Planning</u>	<u>3</u>	
NRRT 362 ^P	<u>Environmental Conflict Management</u>	<u>3</u>	
NRRT 400 ^P	<u>Environmental Governance</u>	<u>3</u>	
NRRT 401 ^P	<u>Collaborative Conservation</u>	<u>3</u>	<u>4A</u>
NRRT 431 ^P	<u>Protected Areas, Working Lands, Livelihoods</u>	<u>3</u>	<u>4B, 4C</u>
NRRT 463 ^P	<u>Non-Profit Administration in Conservation</u>	<u>3</u>	
NRRT 487	<u>Internship</u>	<u>5</u>	
	<u>Guided Electives⁷</u>	<u>3</u>	
	TOTAL	<u>29</u>	

PROGRAM TOTAL = 120 credits

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

¹ Select from the list of courses in category 3B of 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 of the AUCC.

³ Select from the list of courses in category 3C of the AUCC.

⁴ Select from the list of courses in category 3E of the AUCC.

⁵ Select two courses for a minimum total of 6 credits from the department list of Guided Electives.

⁶ Select enough credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400-level).

⁷ Select two upper-division (300- to 400-level) courses, one in the junior year and one in the senior year, for a minimum total of 6 credits from the department list of Guided Electives.

Human Dimensions of Natural Resources Guided Electives¹

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
LOWER-DIVISION COURSES			
AREC 240/	<u>Issues in Environmental Economics</u>	<u>3</u>	
ECON 240			
BZ 223 ^P	<u>Plant Identification</u>	<u>3</u>	
ESS 211 ^P	<u>Foundations in Ecosystem Science</u>	<u>3</u>	
FW 104	<u>Wildlife Ecology and Conservation</u>	<u>3</u>	
FW 204	<u>Introduction to Fishery Biology</u>	<u>3</u>	
FW 260 ^P	<u>Principles of Wildlife Management</u>	<u>3</u>	
HORT 100	<u>Horticultural Science</u>	<u>4</u>	<u>3A</u>
NR 120A	<u>Environmental Conservation</u>	<u>3</u>	
NR 130	<u>Global Environmental Systems</u>	<u>3</u>	
SOC 220	<u>Global Environmental Issues</u>	<u>3</u>	
UPPER-DIVISION COURSES			
ANTH 330 ^P	<u>Human Ecology</u>	<u>3</u>	
ANTH 370 ^P	<u>Primate Behavior and Ecology</u>	<u>3</u>	
ANTH 453 ^P	<u>Impacts on Ancient Environments</u>	<u>3</u>	
ANTH 478 ^P /	<u>Heritage Resource Management</u>	<u>3</u>	
HIST 478 ^P			
ANTH 479 ^P /	<u>International Development Theory and Practice</u>	<u>3</u>	
IE 479 ^P			
AREC 340 ^P /	<u>Introduction: Economics of Natural Resources</u>	<u>3</u>	

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<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
ECON 340 ^P	<u>Economics of Outdoor Recreation</u>	3	
AREC 346 ^P			
ECON 346 ^P	<u>Introduction to Weather and Climate</u>	2	
ATS 350			
BZ 353 ^P	<u>Global Change Ecology, Impacts, and Mitigation</u>	3	
NR 353 ^P			
ESS 311 ^P	<u>Ecosystem Ecology</u>	3	
F 310 ^P	<u>Forest and Rangeland Ecogeography</u>	3	
RS 310 ^P	<u>Forest Ecology</u>	3	
F 311 ^P			
GR 304 ^P	<u>Sustainable Watersheds</u>	3	3A
WR 304 ^P	<u>GIS for Social Scientists</u>	3	
GR 311 ^P			
GR 420 ^P	<u>Spatial Analysis with GIS</u>	4	
NR 322	<u>Introduction to Geographic Information Systems</u>	4	
NRRT 320	<u>International Issues—Recreation and Tourism</u>	3	
PHIL 345	<u>Environmental Ethics</u>	3	
POLS 361	<u>U.S. Environmental Politics and Policy</u>	3	
POLS 362	<u>Global Environmental Politics</u>	3	
RS 300	<u>Rangeland Conservation and Stewardship</u>	3	
SOC 320 ^P	<u>Population-Natural Resources and Environment</u>	3	
SOC 322 ^P	<u>Introduction to Environmental Justice</u>	3	
SOC 364 ^P	<u>Agriculture and Global Society</u>	3	

^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 may petition to substitute courses not on the Guided Electives department list with approval of advisor.

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Department of Human Dimensions of Natural Resources
Warner College of Natural Resources

1480 Campus Delivery
Fort Collins, CO 80523-1480
(970) 491-6591
FAX: (970) 491-2255
www.warnercnr.colostate.edu

MEMORANDUM

Date: April 6, 2015

To: University Curriculum Committee

From: Michael Manfredo, Chair, Human Dimensions of Natural Resources Department, CSU

Subject: HDNR new major request

This memo is to address changes requested by UCC on March 27, 2015 to proposal paperwork accompanying our request for a new major in "human dimensions of natural resources".

First, at UCC's request, we have added a clear statement of rationale for combining our existing Environmental Communication (EC) and Parks and Protected Area Management (PPAM) concentrations as part of our development of the new major. Specifically, informed by a survey of natural resource agency/organization partners in 2012, our rationale for combining the two concentrations is that EC and PPAM are two important areas of emphasis that we believe are necessary components of the new major which has now been broadened in scope to provide for a more comprehensive skillset for conservation professionals. This statement has been included in Section II of the New Major Request ("New Programs of Study-Curricular Requests) Form as well as the introductory paragraph on page 1 of the Phase 1 proposal.

Second, as requested, we have included more information on page 7 of the Phase 2 proposal (Section 13: "Impact of Program Request on Other Programs") to clarify how the transition from the old concentrations to the new major will be handled for existing students: Following approval of the new major, no new students will be admitted to the EC/PPAM concentrations. For our current students, there will be a transitional phase in which those enrolled in the existing EC/PPAM concentrations will be given the option to either: (1) complete their degree within approximately a two-year "phase out" period; or (2) switch to the new major. For the former, we will continue to offer AUCC category 4A, 4B, and 4C courses, which are also part of the new major curriculum, but will require recently-approved courses (in anticipation of the new major) to substitute for other courses on the "old" checksheet. For many students, we have made these substitutions already, and have encountered few hardships or problems, as several courses on the old checksheet are no longer offered or seen as relevant to contemporary issues in human dimensions. For example, NRRT 401 (Collaborative Conservation) and NR 301 (Ecosystem Services and Human Well-Being) have been offered for multiple years, in place of other courses that addressed Interpretation, Recreation Programming, and similar content. For students who choose to switch to the new major, there is sufficient overlap between the "old" and "new" requirements which, when combined with our flexibility in advising, will enable students to make the switch without any additional coursework or delays in obtaining their degree.

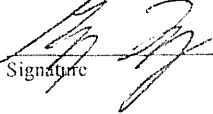
Finally, a question was raised about why we have chosen not to include some of the JTC and SPCM courses (part of the existing EC concentration) in the new major. Our rationale for this is two-fold. Because the focus of the new major is broader in scope than either of the existing concentrations, communication is now among several areas of emphasis that are designed, as a whole, to prepare students for various types of careers in natural resource management and conservation. As such, not all of the communication-related courses have carried over to the new major. In addition, it has been increasingly difficult for our students, as non-majors, to enroll in the upper division JTC and SPCM classes, and as a result, we have found ways in recent years to cover similar content more in-house as part of our existing curriculum (e.g., NRRT 262, NRRT 362, NRRT 401, NRRT 440).

Please let us know if you have questions or need any additional information for continued review of our request, and thank you for all your assistance.

CURRICULAR PROPOSAL ADDITIONAL SIGNATURES PAGE

Program Name BS - Human Dimensions of Natural Resources

9. Overlapping/Affected Signatures or Additional Approval Signatures

	<u>GREG LAFF</u>	<u>CHAIR</u>	<u>JOURNALISM & TECH COMM</u>	<u>4/21/15</u>
Signature	Print Name	Print Title	Dept/ College Name	Date

Signature	Print Name	Print Title	Dept/ College Name	Date
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Signature	Print Name	Print Title	Dept/ College Name	Date
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Signature		4/24/15	Dept/ College Name	Date
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Fionna

Signature	Here are the signature		Dept/ College Name	Date
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Signature	pages from Journalism & Tech		Dept/ College Name	Date
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Signature	communication and communication		Dept/ College Name	Date
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Signature	studies requested by UCC on 4/10/15		Dept/ College Name	Date
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Signature	for our new undergrad major		Dept/ College Name	Date
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(Human Dimensions of Natural Resources). Thanks again for all your help!

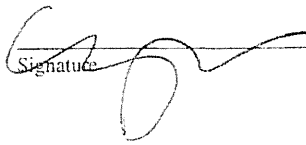
Jana (Tara Tee)

Signature	Print Name	Print Title	Dept/ College Name	Date
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CURRICULAR PROPOSAL ADDITIONAL SIGNATURES PAGE

Program Name ___BS in Human Dimensions of Natural Resources

9. Overlapping/Affected Signatures or Additional Approval Signatures

	Greg Dickinson Chair, Department of Communication Studies, College of Liberal Arts	4/22/15
Signature	Print Name	Date
	Print Title	Dept/ College Name

Signature	Print Name	Print Title	Dept/ College Name	Date
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Signature	Print Name	Print Title	Dept/ College Name	Date
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Signature	Print Name	Print Title	Dept/ College Name	Date
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Signature	Print Name	Print Title	Dept/ College Name	Date
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Signature	Print Name	Print Title	Dept/ College Name	Date
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Signature	Print Name	Print Title	Dept/ College Name	Date
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September 9, 2015

TO: Mary Stromberger, Chair
Executive Committee and Faculty Council

FROM: Carole Makela, Chair
University Curriculum Committee

SUBJECT: Request for new Master of Communications and Media Management
(M.C.M.M., Plan C), Department of Journalism and Media Communication

The University Curriculum Committee moves Faculty Council adopt the following:

new Master of Communications and Media Management degree (M.C.M.M., Plan C) effective Spring Semester 2016.

The proposal was reviewed and approved by the following committees: Committee on Scholarship, Research, and Graduate Education on October 2, 2013; University Curriculum Committee (UCC) on May 8, 2015.

Rationale:

According to the request submitted:

“This new Master’s (Plan C) in Communications and Media Management is designed for students with a bachelor’s degree seeking to transition to a communication-related career or for those seeking to move into a management role in their present media profession. The rapid rate of technological change in media technology has created a need for constant retraining and the acquisition of new multimedia knowledge and management skills. The curriculum is designed to provide students with a comprehensive overview of "new media" developments. Upon completion of the program, students will be prepared to strategize and manage specific communications projects, as well as manage and direct staff members or contract workers in a communications unit within a corporate, educational, or non-profit organization. These management and strategic planning skills will apply to communication efforts through media channels such as online, print, video, audio, and satellite systems; strategic placement and utilization of media products in a corporate, government, or non-profit environment; communication techniques and aesthetics associated with these media products and channels; management, evaluation strategies, and budgeting for staff, projects, and consulting related to the use of media for public relations, advertising, promotions, and other external and internal communications.”

The program will be based in Denver.

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The request was reviewed and approved by the University Curriculum Committee on May 8, 2015.

Enclosure

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SEP 16 2013

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NEW/MAJOR/MINOR PROGRAMS OF STUDY-CURRICULAR REQUESTS

CONTACT PLEASE PRINT: NAME: Jamie Switzer EMAIL: jamie.switzer@colostate.edu PHONE: 491-2239
(REQUIRED)

CHECK THE APPROPRIATE BOX ON THE FAR LEFT. See Curricular Policies and Procedures Handbook, available at <http://www.colostate.edu/orgs/ucc> for instructions.

ADDS

- ADD a new department and/or college. (Complete Section I-Column B and Section II.)
- ADD a new degree or major or concentration or option or minor or interdisciplinary studies program. (Complete Section I-Column B, Section II, and Section III-Column B.)

MAJOR CHANGES

- CHANGE the name of an existing department and/or college. (Complete Section I-Column A, only changed item(s) in Section I-Column B, and Section II.)
- CHANGE the name of a degree or major or concentration or option or minor or interdisciplinary studies program. (Complete Section I-Column A, only changed item(s) in Section I-Column B, and Section II.)
- CHANGE the curriculum requirements of an approved major or concentration or option or minor or interdisciplinary studies program involving a sum total of 7 or more credits. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)
- CHANGE AUCC Category 4 requirements of an approved major or concentration. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)
- DROP a degree or major or concentration or option or minor or interdisciplinary studies program and requirements. (Complete Section I-Column A and Section II.)

MINOR CHANGES

- CHANGE the curriculum requirements of an approved major or concentration or option or minor or interdisciplinary studies program involving a sum total of less than 7 credits. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)
- CHANGE courses and/or group requirements from freshman/sophomore year to junior/senior year or vice versa in an approved major or concentration or option or minor or interdisciplinary studies program. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)

SECTION I

A. PRESENT NAME	COLLEGE	B. REQUESTED NAME
<u>Liberal Arts</u>	<u>Liberal Arts</u>	<u>Liberal Arts</u>
<u>Journalism and Technical Communication</u>	<u>JTC</u>	<u>JTC</u>
	MAJOR	<u>Master of Communications and Media Management</u>
	UNDERGRADUATE CONCENTRATION/ GRADUATE SPECIALIZATION	<u>ment</u>
	OPTION	<u>Plan C</u>
	MINOR	
INTERDISCIPLINARY STUDIES PROGRAM		
	DEGREE	<u>Master of Communications and Media Management</u>
		<u>M.C.M.M. Plan C</u>

EFFECTIVE DATE (TERM AND YEAR) REQUESTED: Spring 2014 SP 16

SECTION II-JUSTIFICATION FOR REQUEST

Creating the Master of Communications and Media Management will be advantageous to students with a bachelor's degree seeking to transition to a communication-related career or those seeking a move within their present media profession.

SECTION III (SEE PG. 2)

SECTION IV-SIGNATURES OF AFFECTED DEPARTMENTS (SEE PG. 3)

CHANNELS FOR APPROVAL	DATE
Department Head/ Chairperson*	<u>9/9/13</u>
Chairperson, College Curriculum Committee	<u>4/14/13</u>
Dean of College*	<u>11/13</u>

*Signature indicates approval and a commitment of resources.

CURRICULUM & CATALOG USE	Approval Date
Comm. On Scholarship, Research, and Graduate Education (CoSRGE)	<u>10/2/13</u>
University Curriculum Committee	<u>MAY 9 8 2015</u>
Faculty Council	<u>5/12/15</u>
Approved Effective Date	<u>SP16</u>

Call 1-1451, Curriculum and Catalog Administration, for information.

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2 of 4

SECTION III-LISTING OF CURRICULUM REQUIREMENTS

A. For EXISTING PROGRAMS ONLY, contact Curriculum and Catalog to request a current program of study, which will be pasted below in this column for you. Curriculum and Catalog: 1-1451 or 1-1578.

B. For NEW PROGRAMS, put the ENTIRE NEW PROGRAM below in this column.

For changes to EXISTING PROGRAMS, LIST ONLY PROPOSED CHANGES (CHANGES, DROPS, AND ADDS). (For examples, see Appendices in the Curricular Policies and Procedures Handbook.)

INCLUDE: Course subject code, number, title, number of credits, and AUCC designation (if appropriate). Note superscript "P" after course number if course has a prerequisite.

Required courses:

JTC526	New Media Writing and Production	3
JTC545	Organizational Media Production	3
JTC560	Managing Communication Systems	3
JTC571	Digital Media Research and Evaluation Methods	3
JTC573	Strategic Digital Communication	3
JTC640	Public Communication Technologies	3
	Total	18

Select four courses from the following*

JTC300	Professional and Technical Communication	3
JTC301	Corporate and Professional Communication	3
JTC311	History of Media	3
JTC355	Advertising	3
JTC361	Writing for Specialized Magazines	3
JTC511	Media Ethics and Issues	3
JTC540	Digital Video Editing <i>Corporate</i>	3
JTC550	Public Relations	3
JTC572	Web Design and Management <i>Corporate</i>	3
	Total	12

*Two of the electives must be at the 500-level

Program Total 30

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SECTION IV – SIGNATURES OF AFFECTED DEPARTMENTS
(Required before consideration by University Curriculum Committee)

Affected departments include any department outside the home department, whose course is used in the program. Affected departments might also include other departments offering a program with similar or overlapping content.

This proposal for a curricular change or addition of a program of study has been reviewed and agreed to by the following departments affected by the changes.

John D. Randall Communication Studies 6/3/11
Signature Department Date

Signature Department Date

Signature Department Date

Signature Department Date

College of Liberal Arts
 Department of Journalism and Technical Communication
 Master of Communications and Media Management (M.C.M.M., Plan C)

Effective Fall 2015

(The entire program is shown.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>
Required Courses:		
JTC 526 ^P	<u>New Media Writing and Production</u>	3
JTC 545 ^P	<u>Organizational Media Production</u>	3
JTC 560 ^P	<u>Managing Communication Systems</u>	3
JTC 571 ^P	<u>Digital Media Research and Evaluation Methods</u>	3
JTC 573 ^P	<u>Strategic Digital Communication</u>	3
JTC 640 ^P	<u>Public Communication Technologies</u>	3
	<u>TOTAL</u>	<u>18</u>
Selected Courses:		
	<i>Select four courses from the following, two of which must be at the 500-level:</i>	
JTC 300 ^P	<u>Professional and Technical Communication</u>	3
JTC 301 ^P	<u>Corporate and Professional Communication</u>	3
JTC 311	<u>History of Media</u>	3
JTC 355 ^P	<u>Advertising</u>	3
JTC 361 ^P	<u>Writing for Specialized Magazines</u>	3
JTC 511 ^P	<u>Media Ethics and Issues</u>	3
JTC 540 ^P	<u>Corporate Digital Video Editing</u>	3
JTC 550 ^P	<u>Public Relations</u>	3
JTC 572 ^P	<u>Corporate Web Design and Management</u>	3
	<u>TOTAL</u>	<u>12</u>
PROGRAM TOTAL = 30 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.

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September 14, 2015

TO: Mary Stromberger, Chair
Executive Committee and Faculty Council

FROM: Carole Makela, Chair
University Curriculum Committee

SUBJECT: A request by the College of Liberal Arts and the College of Engineering to change the Arts and Humanities and Engineering Science concentration and Social Sciences and Engineering Science concentration, to a dual degree with a major in Interdisciplinary Liberal Arts (BA degree) and a major in Engineering Science (BS degree).

The University Curriculum Committee moves Faculty Council adopt the following:

A dual degree with a major in Interdisciplinary Liberal Arts (BA degree) and a major in Engineering Science (BS degree) effective Spring 2016

Rationale:

This is a change from the former Arts and Humanities and Engineering Science concentration and the Social Sciences and Engineering Science concentration as the dual degree.

“Collaboratively, the College of Liberal Arts and the College of Engineering have agreed that this program needs to be updated to reflect changes within the Liberal Arts major as well as within AUCC requirements. The Liberal Arts major no longer contains Social Sciences or Art and Humanities concentrations. In addition, to maintain dual-degree status, students will need to complete AUCC 4 A, B, and C requirements in both majors.”

The request was reviewed and approved by the University Curriculum Committee on May 8, 2015.

Enclosure

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SEP 10 2014

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NEW/MAJOR/MINOR PROGRAMS OF STUDY-CURRICULAR REQUESTS

CONTACT PLEASE PRINT: NAME Kevin Foskin EMAIL Kevin.Foskin@Colostate.edu PHONE 1-2259
(REQUIRED)

CHECK THE APPROPRIATE LINE ON THE FAR LEFT. See Curricular Policies and Procedures Handbook, available at <http://www.colostate.edu/orgs/ucc> for instructions

ADDS

- ADD a new department and/or college. (Complete Section I-Column B and Sections II and V.)
- ADD a new degree or major or concentration or option or minor or interdisciplinary studies program. (Complete Section I-Column B, Section II, Section III-Column B, Section IV as needed, and Section V.)

MAJOR CHANGES

- CHANGE the name of an existing department and/or college. (Complete Section I-Column A, only changed item(s) in Section I-Column B, and Section II.)
- CHANGE the name of a degree or major or concentration or option or minor or interdisciplinary studies program. (Complete Section I-Column A, only changed item(s) in Section I-Column B, and Section II.)
- CHANGE the curriculum requirements of an approved major or concentration or option or minor or interdisciplinary studies program involving a sum total of 7 or more credits. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B, Section IV as needed.)
- CHANGE AUCC Category 4 requirements of an approved major or concentration. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)
- DROP a degree or major or concentration or option or minor or interdisciplinary studies program and requirements. (Complete Section I-Column A and Section II.)

MINOR CHANGES

- CHANGE the curriculum requirements of an approved major or concentration or option or minor or interdisciplinary studies program involving a sum total of less than 7 credits. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B, Section IV as needed.)
- CHANGE courses and/or group requirements from freshman/sophomore year to junior/senior year or vice versa in an approved major or concentration or option or minor or interdisciplinary studies program. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)

SECTION I

A. PRESENT NAME / EXISTING ONLY		B. REQUESTED NAME / NEW OR CHANGES ONLY	
College of Liberal Arts and College of Engineering	COLLEGE		
College of Liberal Arts	DEPARTMENT		
Interdisciplinary Liberal Arts	MAJOR	Interdisciplinary Liberal Arts, B.A.	
Social Sciences and Engineering Science / Arts and Humanities and Engineering Science	UNDERGRADUATE CONCENTRATION/ GRADUATE SPECIALIZATION	Engineering Science, B.S.	
	OPTION	none	
	MINOR		
	INTERDISCIPLINARY STUDIES PROGRAM		
	DEGREE	Dual Degrees: Bachelor of Arts in Interdisciplinary Liberal Arts, and Bachelor of Science in Engineering Science.	

EFFECTIVE DATE (TERM AND YEAR) REQUESTED Fall 2014 2015

SECTION II-JUSTIFICATION FOR REQUEST

Collaboratively, the College of Liberal Arts and the College of Engineering have agreed that this program needs to be updated to reflect changes within the Liberal Arts major as well as within the AUCC requirements. The Liberal Arts major no longer contains Social Sciences or Arts & Humanities concentrations. In addition, to maintain dual-degree status, students will need to complete AUCC 4 A, B, and C requirements in both majors.

CHANNELS FOR APPROVAL	DATE	CURRICULUM & CATALOG USE ONLY	Approval Date
Department Head/Chairperson* <i>Kevin Foskin</i>	6-24-2014	Comm. On Strategic and Financial Planning (CoSFP)	
Chairperson, College Curriculum Committee <i>[Signature]</i>	8/3/14	Council of Deans	
Dean of College* <i>[Signature]</i>	7/30/14	University Curriculum Committee	MAY 08 2015
University Curriculum Committee Representative <i>[Signature]</i>	8/3/14	Faculty Council	5/12/15
Chair, CoSRGE†		Board of Governors	
*Signature indicates approval and a commitment of resources.		CCHE	
†Graduate programs only.		Approved Effective Date	FA15

Call 1-1451, Curriculum and Catalog Administration, for information.

SECTION III-LISTING OF CURRICULUM REQUIREMENTS

A. For EXISTING PROGRAMS ONLY, contact Curriculum and Catalog to request a current program of study, which will be pasted below in this column for you. Curriculum and Catalog: 1-1451 or 1-1578.

B. For NEW PROGRAMS, put the ENTIRE NEW PROGRAM below in this column.
For changes to EXISTING PROGRAMS, LIST ONLY PROPOSED CHANGES (CHANGES, DROPS, AND ADDS). (For examples, see Appendices in the Curricular Policies and Procedures Handbook.)
INCLUDE: Course subject code, number, title, number of credits, and AUCC designation (if appropriate). Note superscript "P" after course number if course has a prerequisite.

College of Liberal Arts
Major in Liberal Arts
Social Sciences and Engineering Science Concentration

Course	Title	Cr	AUCC
FRESHMAN			
CHEM 111 ^P	General Chemistry I	4	3A
CHEM 112 ^P	General Chemistry Laboratory I	1	3A
CIVE 102	Introduction: Civil/Environmental Engineering	3	
CIVE 103 ^P	Engineering Graphics and Computing	3	
MATH 160 ^P	Calculus for Physical Scientists I	4	1B
PH 141 ^P	Physics for Scientists and Engineers I	5	3A
	Historical Perspectives ¹	6	3D
	Social and Behavioral Sciences ²	3	3C
	Additional Requirements for Graduation ³	0	
	TOTAL	29	
SOPHOMORE			
CHEM 113 ^P	General Chemistry II	3	
CO 150 ^P	College Composition	3	1A
MATH 161 ^P	Calculus for Physical Scientists II	4	1B
MATH 261 ^P	Calculus for Physical Scientists III	4	
PH 142 ^P	Physics for Scientists and Engineers II	5	3A
	Advanced Writing ⁴	3	2
	Arts and Humanities ⁵	6	3B
	Global and Cultural Awareness ⁶	3	3E
	Additional Requirements for Graduation ³	0	
	TOTAL	31	
JUNIOR			
CIVE 260 ^P	Engineering Mechanics-Statics	3	
CIVE 261 ^P	Engineering Mechanics-Dynamics	3	
MATH 340 ^P	Introduction to Ordinary Differential Equations	4	4A, 4B
MECH 237 ^P	Introduction to Thermal Sciences	3	
STAT 315 ^P	Statistics for Engineers and Scientists	3	
	Minor or Interdisciplinary Minor ⁷	12	
	Social science electives ⁸	6	
	Additional Requirements for Graduation ³	0	
	TOTAL	34	
SENIOR			
CIVE 300 ^P	Fluid Mechanics	4	
ECE 204 ^P	Introduction to Electrical Engineering	3	
	Minor or Interdisciplinary Minor ⁷	9	
	Social science electives ⁸	6	
	Technical electives in engineering ⁹	6	
	Additional Requirements for Graduation ³	0	
	TOTAL	28	

College of Liberal Arts
Major in Interdisciplinary Liberal Arts
Interdisciplinary Liberal Arts and Engineering Science Dual Degree Concentration

FRESHMAN			
Add:	CO 150 ^P College Composition	3	1A
Change:	Historical Perspectives ¹	3	3D
TOTAL		29	
SOPHOMORE			
Delete:	CO 150 ^P College Composition	3	1A
Add:	SPCM 200 Public Speaking		3
	LB 200 Research Methods		1
	↑ Liberal Arts		
Change:			
TOTAL		32	
JUNIOR			
Delete:	Minor or Interdisciplinary Minor ⁷		12
	Social science electives ⁸		6
Add:	Arts & Humanities/Social Sciences electives ⁷		12
Add:	Upper Division Arts & Humanities/Social Sciences ⁸		6
TOTAL		34	
SENIOR			
Delete:	Minor or Interdisciplinary Minor ⁷		9
	Social science electives ⁸		6
Change:	CIVE 300 ^P Fluid Mechanics		3
Add:	CIVE 301 ^P Fluid Mechanics Laboratory		1
Add:	Upper Division Arts & Humanities/Social Sciences ⁸		12
	LB 492 Liberal Arts Capstone Seminar		3 4A, 4C
Add:	Select one course from the following:		
	LB 455 ^P / SPCM 455 ^P Narrative Fiction Film as a Liberal Art	3	4B
	LB 456 ^P / JTC 456 ^P Documentary Film as a Liberal Art	3	4B

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Other CLA 4B course¹¹ 3 4B

Change:
TOTAL 31

FIFTH YEAR

<i>Select one of the following pairs of courses:</i>				
CBE	451 ^P	Chemical and Biological Engineering Design I ¹⁰	3	4C
CBE	452 ^P	Chemical and Biological Engineering Design II	3	4C
<i>OR</i>				
CIVE	402 ^P	Senior Design Principles ¹⁰	3	
CIVE	403 ^P	Senior Project Design	3	4C
<i>OR</i>				
ECE	401 ^P	Senior Design Project I ¹⁰	3	
ECE	402 ^P	Senior Design Project II	3	4C
<i>OR</i>				
MECH	486A ^P	Engineering Design Practicum I ¹⁰	4	4C
MECH	486B ^P	Engineering Design Practicum II	4	4C
Technical electives in engineering ⁹			25-	
			27	
Additional Requirements for Graduation ³			0	
TOTAL			33	

PROGRAM TOTAL = 155 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.

¹Select one pair of courses from the following subset of courses in category 3D in the AUCC; AMST 100/AMST 101, HIST 100/HIST 101, HIST 120/HIST 121, HIST 150/HIST 151, HIST 170/HIST 171. Students may also select a pair of courses designed to achieve programmatic objectives, if approved by the adviser, but at least one course must be on the category 3D list.

²Select from the list of courses in category 3C in the AUCC with the following subject codes: ANTH, ECON, JTC, POLS, PSY, or SOC.

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.

⁴Select from among CO 300, CO 301A-D, CO 302, or JTC 300.

⁵From AUCC category 3B select two courses. One must have a prefix of ART, D, MU, or TH and another a prefix of E, ETST, PHIL, or SPCM.

⁶Select from the following subset of courses in category 3E in the AUCC: ANTH 200, E 238, E 245, ECON 211, ETST 253, ETST 256, LB 170, LB 171, PHIL 170, POLS 131, POLS 241, SOC 205, SA 482. The HIST courses, if selected here, cannot also be counted in category 3D.

⁷Students must complete a minor in the social sciences, or one of the following interdisciplinary minors: Asian Studies; Environmental Affairs; Latin American and Caribbean Studies; Religious Studies; Women's Studies; or, with approval of the student's adviser and the College of Liberal Arts, any other minor or interdisciplinary minor consistent with the student's program in the social sciences. The minor or interdisciplinary minor must include a minimum of 21 credits, of which 12 must be upper-division. Because courses taken in fulfillment of the AUCC may, where appropriate, be double counted in fulfilling this requirement, the actual number of new credits generated by this requirement of a minor or interdisciplinary minor can vary.

⁸Students must complete 12 upper-division credits in at least two social sciences subject codes, not including the minor. Social sciences subject codes are ANTH, AMST, ECON, HIST, JTC, POLS, PSY, SOC, ETST (if the course has a social sciences focus), LB (456).

⁹Select from department list.

¹⁰Students in this concentration may need to obtain a prerequisite override from the appropriate department to enroll in this course.

Change:
PROGRAM TOTAL = 159 credits

Change footnote 1:
Select 3 credits from the list in category 3D of the AUCC.

Change footnote 2:
Select 3 credits from the list of courses in category 3C in the AUCC.

Change footnote 4:
Select from among CO 300, CO 301A-D, CO 302, JTC 300, or LB 300 *put into program*

Change footnote 5: 4
Select two courses from the list in category 3B of the AUCC.

Change footnote 6: 5
Select 3 credits from the list in category 3E of the AUCC.

Change footnote 7: 6
Choose courses from the following subject codes: ANTH, ART, CO, D, E, ECON, ETST, GR, HIST, JTC, L*, LB, MU, PHIL, POLS, PSY, SOC, SPCM, TH, WS. [NOTE: Effective Fall 2007, foreign language courses are in separate subject codes, all starting with L and followed by three letters designating the language, e.g., LFRE is French, LGER is German, etc.] Courses used to fulfill AUCC distribution requirements may not be double-counted toward this major requirement.

Change footnote 8: 7
Eighteen upper-division credits in at least two subject codes in the arts and humanities or social sciences disciplines: ART, ANTH, CO, D, E, ECON, ETST, L*, GR, LB, HIST, JTC, MU, PHIL, POLS, PSY, SOC, SPCM, TH, WS. No more than six credits of Psychology (PSY) can count toward this major requirement.

Add footnote 11: *This fn is at the top of footnotes with "P"*
Courses may have at least one prerequisite! Check the Courses of Instruction section of the catalog or <http://catalog.colostate.edu/> to see the course prerequisites.

¹¹ CLA 4B, 3 credit, course list.

ANTH 400	History/Anthropological Thought
AMST/ E 300	American Lives -Methods In American Studies
ART 311	Art of Africa
ART 312	History of Pre-Columbian Art
ART 314	Women in Art History
ART 315	US Art since 1945
ART 316	Art of the Pacific
ART 318	Native American Art
ART 319	History of Graphic Design
ART 410	Greek Art
ART 411	Hist of Medieval Art
ART 412	Hist of Renaissance Art

ART 414	Hist of Baroque & Rococo Art
ART 415	Hist of 19th Cen European Art
ART 416	Hist of 20th Cen European Art
ART 417	Roman Art
D 428	Dance History II
E 341	Principles of Literary Criticism
ECON 306	Intermediate Microeconomics
ECON 492	Seminar
HIST 492	Capstone Seminar
JTC 415	Communications Law
L*** 492	Language, Literature & Society
LB/ SP 455	Narrative Fiction Film as Lib. Art
LB/ JTC 456	Documentary Film as Lib. Art
MU 334	Music History I
MU 335	Music History II
PHIL 462	Philosophy Capstone Seminar
POLS 302	U.S. Political Parties and Elections
POLS 303	Politics of Organized Interests
POLS 405	Race and Ethnicity in U.S. Politics
POLS 420	History of Political Thought
POLS 421	Contemporary Political Theories
POLS 423	American Political Theories
POLS 448	Comparative Racial/Ethnic Politics
POLS 449	Middle East Politics
PSY 315	Social Psychology
PSY 320	Abnormal Psychology
PSY 325	Psychology of Personality
SOC311	Methods of Sociological Inquiry
SPCM 311	Hist Speeches/American Issues
SPCM 341	Evaluating Contemporary Television
SPCM 342	Critical Media Studies
SPCM 350	Evaluating Contemporary Film
SPCM 411	Contemporary Speeches/Am Issues
SPCM 412	Evaluating Cont. Rhetoric
TH 341	History of Theatre I
TH 342	History of Theatre II
TH 455	Directing Process

In program
of study
in the
senior
year

Never
approved
for 4B
for CLA

200-level now \neq not 4B

SECTION III-LISTING OF CURRICULUM REQUIREMENTS

A. For EXISTING PROGRAMS ONLY, contact Curriculum and Catalog to request a current program of study, which will be pasted below in this column for you. Curriculum and Catalog: 1-1451 or 1-1578.

B. For NEW PROGRAMS, put the ENTIRE NEW PROGRAM below in this column. For changes to EXISTING PROGRAMS, LIST ONLY PROPOSED CHANGES (CHANGES, DROPS, AND ADDS). (For examples, see Appendices in the Curricular Policies and Procedures Handbook.)

INCLUDE: Course subject code, number, title, number of credits, and AUCC designation (if appropriate). Note superscript "P" after course number if course has a prerequisite.

College of Liberal Arts Effective Fall 2014
 Major in Interdisciplinary Liberal Arts UCC 1/24/14
 Arts and Humanities and Engineering Science Concentration

Course	Title	Cr	AUCC
FRESHMAN			
CHEM 111 ^P	General Chemistry I	4	3A
CHEM 112 ^P	General Chemistry Laboratory I	1	3A
CIVE 102	Introduction: Civil/Environmental Engineering	3	
CIVE 103 ^P	Engineering Graphics and Computing	3	
MATH 160 ^P	Calculus for Physical Scientists I	4	1B
PH 141 ^P	Physics for Scientists and Engineers I	5	3A
	Arts and Humanities ¹	6	3B
	Global and Cultural Awareness ²	3	3E
	Additional Requirements for Graduation ³	0	
	TOTAL	29	
SOPHOMORE			
CHEM 113 ^P	General Chemistry II	3	
CO 150 ^P	College Composition	3	1A
MATH 161 ^P	Calculus for Physical Scientists II	4	1B
MATH 261 ^P	Calculus for Physical Scientists III	4	
PH 142 ^P	Physics for Scientists and Engineers II	5	3A
	Advanced Writing ⁴	3	2
	Historical Perspectives ⁵	6	3D
	Social and Behavioral Sciences ⁶	3	3C
	Additional Requirements for Graduation ³	0	
	TOTAL	31	
JUNIOR			
CIVE 260 ^P	Engineering Mechanics-Statics	3	
CIVE 261 ^P	Engineering Mechanics-Dynamics	3	
MATH 340 ^P	Introduction to Ordinary Differential Equations	4	4A, 4B
MECH 237 ^P	Introduction to Thermal Sciences	3	
STAT 315 ^P	Statistics for Engineers and Scientists	3	
	Minor or Interdisciplinary Minor ⁷	9	
	Arts and humanities electives ⁸	6	
	Additional Requirements for Graduation ³	0	
	TOTAL	31	
SENIOR			
CIVE 300 ^P	Fluid Mechanics	4	
ECE 204 ^P	Introduction to Electrical Engineering	3	
	Minor or Interdisciplinary Minor ⁷	12	
	Arts and humanities electives ⁸	6	
	Technical electives in engineering ⁹	3-5	
	Additional Requirements for Graduation ³	0	
	TOTAL	28-30	
FIFTH YEAR			
	<i>Select one pair of courses from the following:</i>		
CBE 451 ^P	Chemical and Biological Engineering Design I ¹⁰	3	4C
CBE 452 ^P	Chemical and Biological Engineering Design II	3	4C
	OR		
CIVE 402 ^P	Senior Design Principles ¹⁰	3	
CIVE 403 ^P	Senior Project Design	3	4C
	OR		
ECE 401 ^P	Senior Design Project I ¹⁰	3	
ECE 402 ^P	Senior Design Project II	3	4C
	OR		
MECH 486A ^P	Engineering Design Practicum I ¹⁰	4	4C
MECH 486B ^P	Engineering Design Practicum II	4	4C
	Technical electives in engineering	25	
	Additional Requirements for Graduation ³	0	

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TOTAL

31-33

PROGRAM TOTAL = 152 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 From All-University Core Curriculum (AUCC) category 3B select two courses. One must have a subject code of ART, D, MU, or TH and another subject code of E, ETST, PHIL, or SPCM. These two courses double count in either the arts and humanities electives required by the major or the minor/interdisciplinary minor. Any course counted here cannot double count in the global and cultural awareness category.

² Select from the following subset of courses in category 3E in the AUCC: ANTH 200, E 238, E 245, ECON 211, ETST 253, ETST 256, LB 170, LB 171, PHIL 170, POLS 131, POLS 241, SOC 205, SA 482.

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 one course from among CO 300, CO 301A-D, CO 302, or JTC 300.

⁵ Select one pair of courses from the following subset of courses in category 3D in the AUCC: AMST 100/AMST 101, HIST 100/HIST 101, HIST 150/HIST 151, HIST 170/HIST 171. Students may also select a pair of courses designed to achieve programmatic objectives, if approved by the adviser, but at least one course must be on the category 3D list.

⁶ Select from the list of courses in category 3C in the All-University Core Curriculum (AUCC) with the following prefixes: ANTH, ECON, JTC, POLS, PSY, or SOC.

⁷ Students must complete a minor in the arts and humanities or one of the following interdisciplinary minors: Asian Studies; Environmental Affairs; Latin American and Caribbean Studies; Religious Studies; Women's Studies; or, with the approval of the student's adviser and the College of Liberal Arts, any other minor or interdisciplinary minor consistent with the student's program in the arts and humanities. The minor or interdisciplinary minor must include a minimum of 21 credits, of which 12 must be upper-division. Because courses taken in fulfillment of the AUCC may, where appropriate, be double counted in fulfilling this requirement, the actual number of new credits generated by this requirement of a minor or interdisciplinary minor can vary.

⁸ Students must complete 12 upper-division credits in at least two arts and humanities subject codes, not including the minor. Arts and humanities subject codes are: ART, D, E, L*, MU, PHIL, SPCM, TH, ETST (if the course has an arts and humanities focus), LB 455. *Effective Fall 2007, foreign language courses are in separate subject codes (all starting with L and followed by three letters designating the language, e.g., LFRE is French, LGER is German, etc.).

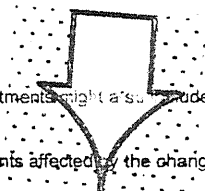
⁹ Select courses from departmental list.

¹⁰ Students in this concentration may need to obtain a prerequisite override from the appropriate department to enroll in this course.

SECTION IV – SIGNATURES OF AFFECTED DEPARTMENTS
(Required before consideration by University Curriculum Committee)

Affected departments include any department outside the home department, whose course is used in the program. Affected departments might also include other departments offering a program with similar or overlapping content.

This proposal for a curricular change or addition of a program of study has been reviewed and agreed to by the following departments affected by the changes.



<i>[Signature]</i>	<i>COE</i>	<i>4 Aug 14</i>
Signature	Department	Date
Signature	Department	Date
Signature	Department	Date
Signature	Department	Date

SECTION V – COPY FOR THE GENERAL CATALOG

(Required for all new colleges, departments, and programs. Contact Curriculum and Catalog for examples and assistance. Copy and paste here or attach separate page(s).)

College of Engineering andCollege of Liberal Arts

Effective Fall 2015

Dual Degree:Major in Engineering Science (B.S. degree) andMajor in Interdisciplinary Liberal Arts (B.A. degree)~~Arts and Humanities and Engineering Science Concentration~~

and

~~Social Sciences and Engineering Science Concentration~~(The entire program is shown. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
CHEM 111 ^P	General Chemistry I	4	3A
CHEM 112 ^P	General Chemistry Laboratory I	1	3A
CIVE 102	Introduction: Civil/Environmental Engineering	3	
CIVE 103 ^P	Engineering Graphics and Computing	3	
CO 150 ^P	<u>College Composition</u>	<u>3</u>	<u>1A</u>
MATH 160 ^P	Calculus for Physical Scientists I	4	1B
PH 141 ^P	Physics for Scientists and Engineers I	5	3A
	Historical Perspectives ¹	<u>6</u>	3D
	Social and Behavioral Sciences ²	3	3C
	Additional Requirements for Graduation ³	0	
	TOTAL	<u>29</u>	
SOPHOMORE			
CHEM 113 ^P	General Chemistry II	3	
CO 150^P	College Composition	3	1A
<i>Select one of the following courses:</i>			
CO 300 ^P	<u>Writing Arguments</u>	<u>3</u>	<u>2</u>
CO 301A-D ^P	<u>Writing in the Disciplines</u>	<u>3</u>	<u>2</u>
CO 302 ^P	<u>Writing in Digital Environments</u>	<u>3</u>	<u>2</u>
JTC 300 ^P	<u>Professional and Technical Communication</u>	<u>3</u>	<u>2</u>
LB 300 ^P	<u>Specialized Professional Writing</u>	<u>3</u>	<u>2</u>
LB 200	Liberal Arts Research Methods	1	
MATH 161 ^P	Calculus for Physical Scientists II	4	1B
MATH 261 ^P	Calculus for Physical Scientists III	4	
PH 142 ^P	Physics for Scientists and Engineers II	5	3A
SPCM 200	<u>Public Speaking</u>	<u>3</u>	
	Advanced Writing⁴	3	2
	Arts and Humanities ^{4,5}	6	3B
	Global and Cultural Awareness ^{5,6}	3	3E
	Additional Requirements for Graduation ³	0	
	TOTAL	<u>31-32</u>	
JUNIOR			
CIVE 260 ^P	Engineering Mechanics—Statics	3	
CIVE 261 ^P	Engineering Mechanics—Dynamics	3	
MATH 340 ^P	Introduction to Ordinary Differential Equations	4	4A, 4B
MECH 237 ^P	Introduction to Thermal Sciences	3	
STAT 315 ^P	Statistics for Engineers and Scientists	3	
	<u>Arts and Humanities/Social Science Electives⁶</u>	<u>12</u>	
	Minor or Interdisciplinary Minor⁷	12	
	Social Science Electives⁸	6	
	<u>Upper-Division Arts and Humanities/Social Science Electives⁷</u>	<u>6</u>	
	Additional Requirements for Graduation ³	0	

Major in Engineering Science (B.S. degree)
Major in Interdisciplinary Liberal Arts (B.A. degree) Dual Degree Program
~~Arts and Humanities and Engineering Science Concentration and~~
~~Social Sciences and Engineering Science Concentration~~

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
	TOTAL	34	
SENIOR			
CIVE 300 ^P	Fluid Mechanics	4 ³	
CIVE 301 ^P	Fluid Mechanics Laboratory	1	
ECE 204 ^P	Introduction to Electrical Engineering	3	
<i>Select one of the following courses:</i>			
JTC 456 ^P / LB 456 ^P	Documentary Film as a Liberal Art	3	4B
LB 455 ^P / SPCM 455 ^P	Narrative Fiction film as a Liberal Art	3	4B
	Other CLA 4B Course ⁸	3	4B
LB 492 ^P	Liberal Arts Capstone Seminar	3	4A, 4C
	Minor or Interdisciplinary Minor ⁷	9	
	Social science electives ⁸	6	
	Technical Electives in Engineering ⁹	6	
	Upper-Division Arts and Humanities/Social Science Electives ⁷	12	
	Additional Requirements for Graduation ³	0	
	TOTAL	28 ³¹	
FIFTH YEAR			
<i>Select one of the following pairs of courses:</i>			
CBE 451 ^P	Chemical and Biological Engineering Design I ¹⁰	3	4C
CBE 452 ^P	Chemical and Biological Engineering Design II	3	4C
OR			
CIVE 402 ^P	Senior Design Principles ¹⁰	3	
CIVE 403 ^P	Senior Project Design	3	4C
OR			
ECE 401 ^P	Senior Design Project I ¹⁰	3	
ECE 402 ^P	Senior Design Project II	3	4C
OR			
MECH 486A ^P	Engineering Design Practicum I ¹⁰	4	4C
MECH 486B ^P	Engineering Design Practicum II	4	4C
	Technical Electives in Engineering ⁹	25-27	
	Additional Requirements for Graduation ³	0	
	TOTAL	33	
PROGRAM TOTAL = 155-159 credits			
CLA 4B Course Selection⁸			
AMST 300 ^P / E 300 ^P	American Lives—Methods in American Studies	3	4B
ANTH 400 ^P	History of Anthropological Theory	3	4B
ART 311 ^P	Art of Africa	3	4B
ART 312 ^P	History of Pre-Columbian Art	3	4B
ART 314 ^P	Women in Art History	3	4B
ART 315 ^P	United States Art 1945-1980	3	4B
ART 316 ^P	Art of the Pacific	3	4B
ART 319 ^P	History of Graphic Design	3	4B
ART 410 ^P	Greek Art	3	4B
ART 411 ^P	History of Medieval Art	3	4B
ART 412 ^P	History of Renaissance Art	3	4B
ART 414 ^P	History of Baroque and Rococo	3	4B
ART 415 ^P	History of 19 th -Century European Art	3	4B
ART 416 ^P	History of European Art	3	4B

Major in Engineering Science (B.S. degree)
Major in Interdisciplinary Liberal Arts (B.A. degree) Dual Degree Program
Arts and Humanities and Engineering Science Concentration and
Social Sciences and Engineering Science Concentration

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
ART 417 ^P	Roman Art	3	4B
D 428 ^P	Dance History II	3	4B
E 341 ^P	Literary Criticism and Theory	3	4B
ECON 306 ^P	Intermediate Microeconomics	3	4B
ECON 492 ^P	Seminar	3	4B
HIST 492 ^P	Capstone Seminar	3	4B
JTC 415 ^P	Communications Law	3	4B
L*** 492 ^P	Seminar—Language, Literature, and Society	3	4B
MU 334 ^P	Music History I	3	4B
MU 335 ^P	Music History II	3	4B
PHIL 462 ^P	Capstone Seminar	3	4B
POLS 302 ^P	U.S. Political Parties and Elections	3	4B
POLS 303 ^P	Politics of Organized Interests	3	4B
POLS 405 ^P	Race and Ethnicity in U.S. Politics	3	4B
POLS 420 ^P	History of Political Thought	3	4B
POLS 421 ^P	Contemporary Political Theories	3	4B
POLS 423 ^P	American Political Theories	3	4B
POLS 448 ^P	Comparative Racial/Ethnic Politics	3	4B
POLS 449 ^P	Middle East Politics	3	4B
SOC 311 ^P	Methods of Sociological Inquiry	3	4B
SPCM 311 ^P	Historical Speeches on American Issues	3	4B
SPCM 341	Evaluating Contemporary Television	3	4B
SPCM 342 ^P	Critical Media Studies	3	4B
SPCM 350	Evaluating Contemporary Film	3	4B
SPCM 411 ^P	Contemporary Speeches on American Issues	3	4B
SPCM 412 ^P	Evaluating Contemporary Rhetoric	3	4B
TH 355 ^P	Directing Seminar	3	4B

^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 one pair of courses from the following subset of courses in category 3D in the AUCC: AMST 100/AMST 101, HIST 100/HIST 101, HIST 120/HIST 121, HIST 150/HIST 151, HIST 170/HIST 171. Students may also select a pair of courses designed to achieve programmatic objectives, if approved by the adviser, but at least one course must be on the category 3D list. Select from the list of courses in category 3D of the All-University Core Curriculum (AUCC).

² Select from the list of courses in category 3C of the AUCC, with the following subject codes: ANTH, ECON, JTC, POLS, PSY, or SOC.

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 among CO 300, CO 301A-D, CO 302, or JTC 300.

⁴ Select 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 intermediate (L*** 200 and L*** 201) foreign language courses.

⁵ From AUCC category 3B select two courses. One must have a prefix of ART, D, MU, or TH and another a prefix of E, ETST, PHIL, or SPCM.

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

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Major in Engineering Science (B.S. degree)
Major in Interdisciplinary Liberal Arts (B.A. degree) Dual Degree Program
~~Arts and Humanities and Engineering Science Concentration and~~
~~Social Sciences and Engineering Science Concentration~~

⁶Select from the following subset of courses in category 3E in the AUCC: ANTH 200, E 238, E 245, ECON 211, ETST 253, ETST 256, LB 170, LB 171, PHIL 170, POLS 131, POLS 241, SOC 205, SA 482. The HIST courses, if selected here, cannot also be counted in category 3D.

⁶ Select from the following subject codes: ANTH, ART, CO, D, E, ECON, ETST, GR HIST, JTC, L***, LB, MU, PHIL, POLS, PSY, SOC, SPCM, TH, WS. Courses used to fulfill AUCC requirements may not be double-counted toward this major requirement.

⁷Students must complete a minor in the social sciences, or one of the following interdisciplinary minors: Asian Studies; Environmental Affairs; Latin American and Caribbean Studies; Religious Studies; Women's Studies; or, with approval of the student's adviser and the College of Liberal Arts, any other minor or interdisciplinary minor consistent with the student's program in the social sciences. The minor or interdisciplinary minor must include a minimum of 21 credits, of which 12 must be upper division. Because courses taken in fulfillment of the AUCC may, where appropriate, be double counted in fulfilling this requirement, the actual number of new credits generated by this requirement of a minor or interdisciplinary minor can vary.

⁷ Select 18 upper-division (300- to 400-level) credits from at least two subject codes in the arts and humanities or social sciences disciplines: ART, ANTH, CO, D, E, ECON, ETST, GR, HIST, JTC, LB, L***, MU, PHIL, POLS, PSY, SOC, SPCM, TH, WS. No more than 6 credits of Psychology (PSY) may count toward this major requirement.

⁸Students must complete 12 upper-division credits in at least two social sciences subject codes, not including the minor. Social sciences subject codes are ANTH, AMST, ECON, HIST, JTC, POLS, PSY, SOC, ETST (if the course has a social sciences focus), LB (456).

⁸ Select from the list of CLA 4B courses.

⁹ Select from College of Engineering, Engineering Science list of courses.

¹⁰ Students in this concentration may need to obtain a prerequisite override from the appropriate department to enroll in this course.

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September 14, 2015

TO: Mary Stromberger, Chair
Executive Committee and Faculty Council

FROM: Carole Makela, Chair
University Curriculum Committee

SUBJECT: A request by the College of Liberal Arts and the College of Engineering to change the International Engineering and International Studies concentration, to a dual degree with a major in Engineering Science (B.S. degree) and a major in International Studies (B.A. degree).

The University Curriculum Committee moves Faculty Council adopt the following:

To change the International Engineering and International Studies concentration, to a dual degree with a major in Engineering Science (B.S. degree) and a major in International Studies (B.A. degree) effective Spring 2016.

Rationale:

According to the request submitted: “Collaboratively, the College of Liberal Arts and the College of Engineering have agreed that this program needs to be updated to reflect changes within the International Studies Program – which is now an independent major rather than a concentration within the Liberal Arts degree as well as within the AUCC requirements.”

The request was reviewed and approved by the University Curriculum Committee on May 8, 2015.

Enclosure

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NEW/MAJOR/MINOR PROGRAMS OF STUDY-CURRICULAR REQUESTS

CONTACT PLEASE PRINT: NAME Andrea Williams EMAIL Andrea.Williams@colostate.edu PHONE 970-491-3295
(REQUIRED)

CHECK THE APPROPRIATE BOX ON THE FAR LEFT. See Curricular Policies and Procedures Handbook, available at <http://www.colostate.edu/orgs/ucc> for instructions.

ADDS

- ADD a new department and/or college. (Complete Section I-Column B and Section II.)
- ADD a new degree or major or concentration or option or minor or interdisciplinary studies program. (Complete Section I-Column B, Section II, and Section III-Column B.)

MAJOR CHANGES

- CHANGE the name of an existing department and/or college. (Complete Section I-Column A, only changed item(s) in Section I-Column B, and Section II.)
- CHANGE the name of a degree or major or concentration or option or minor or interdisciplinary studies program. (Complete Section I-Column A, only changed item(s) in Section I-Column B, and Section II.)
- CHANGE the curriculum requirements of an approved major or concentration or option or minor or interdisciplinary studies program involving a sum total of 7 or more credits. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)
- CHANGE AUCC Category 4 requirements of an approved major or concentration. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)
- DROP a degree or major or concentration or option or minor or interdisciplinary studies program and requirements. (Complete Section I-Column A and Section II.)

MINOR CHANGES

- CHANGE the curriculum requirements of an approved major or concentration or option or minor or interdisciplinary studies program involving a sum total of less than 7 credits. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)
- CHANGE courses and/or group requirements from freshman/sophomore year to junior/senior year or vice versa in an approved major or concentration or option or minor or interdisciplinary studies program. (Complete Section I-Column A, Section II, Section III-Column A, and only changed item(s) in Section III-Column B.)

SECTION I

A. PRESENT NAME		B. REQUESTED NAME
College of Engineering	COLLEGE	College of Liberal Arts and College of Engineering
College of Engineering	DEPARTMENT	
Engineering Science	MAJOR	Major in Engineering Science (B.S.) and Major in International Studies (B.A.)
International Engineering and International Studies	UNDERGRADUATE CONCENTRATION/ GRADUATE SPECIALIZATION	
	OPTION	
	MINOR	
INTERDISCIPLINARY STUDIES PROGRAM		
B.S./B.A.	DEGREE	BA./BS. Dual Degrees: Bachelor of Science in Engineering Science and Bachelor of Arts in International Studies

EFFECTIVE DATE (TERM AND YEAR) REQUESTED ^{FALL} ~~Spring~~ 2015 _____

SECTION II-JUSTIFICATION FOR REQUEST

Collaboratively, the College of Liberal Arts and the College of Engineering have agreed that this program needs to be updated to reflect changes within the International Studies Program – which is now an independent major rather than a concentration within the Liberal Arts degree – as well as within the AUCC requirements.

SECTION III (SEE PG. 2)

SECTION IV-SIGNATURES OF AFFECTED DEPARTMENTS (SEE PG. 3)

CHANNELS FOR APPROVAL	DATE
Department Head/ Chairperson* <u>[Signature]</u>	<u>1 April 14</u>
Chairperson, College Curriculum Committee <u>[Signature]</u>	<u>5/7/14</u>
Dean of College* <u>[Signature]</u>	<u>5/5/14</u>

*Signature indicates approval and a commitment of resources.

CURRICULUM & CATALOG USE	Approval Date
Comm. On Scholarship, Research, and Graduate Education (CoSRGE)	_____
University Curriculum Committee	<u>MAY 08 2015</u>
Faculty Council	<u>6/12/15</u>
Approved Effective Date	<u>FA15</u>

Call 1-1451, Curriculum and Catalog Administration, for information.

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SECTION III-LISTING OF CURRICULUM REQUIREMENTS

A. For EXISTING PROGRAMS ONLY, contact Curriculum and Catalog to request a current program of study, which will be pasted below in this column for you.
Curriculum and Catalog: 1-1451 or 1-1578.

B. For NEW PROGRAMS, put the ENTIRE NEW PROGRAM below in this column.
For changes to EXISTING PROGRAMS, LIST ONLY PROPOSED CHANGES (CHANGES, DROPS, AND ADDS). (For examples, see Appendices in the *Curricular Policies and Procedures Handbook*.)
INCLUDE: Course subject code, number, title, number of credits, and AUCC designation (if appropriate). Note superscript "P" after course number if course has a prerequisite.

College of Engineering
Major in Engineering Science
International Engineering and International Studies Concentration

Effective Fall 2009
UCC 11/27/06
Minor 11/5/09

Add:

To qualify for graduation, engineering science majors must achieve a minimum 2.000 grade point average at Colorado State in all courses in engineering, mathematics, computer science, statistics, physics, and chemistry as well as courses taken as technical electives.

Students must choose one option area in the International Studies Concentration:
European, Asia, Latin America, Middle East, North Africa

Course	Title	Cr	AUCC
FRESHMAN			
CHEM 111 ^P	General Chemistry I	4	
CHEM 112 ^P	General Chemistry Laboratory I	1	
CHEM 113 ^P	General Chemistry II	3	
CIVE 102	Introduction: Civil/Environmental Engineering	3	
CIVE 103 ^P	Engineering Graphics and Computing	3	
CO 150 ^P	College Composition	3	1A
ECON 202 ^P	Principles of Microeconomics	3	3C
L*** 200 ^P	Second Year Language I ¹	3	
MATH 160 ^P	Calculus for Physical Scientists I	4	1B
MATH 161 ^P	Calculus for Physical Scientists II	4	
	Additional Requirements for Graduation ⁸	0	
	TOTAL	31	
SOPHOMORE			
ECON 204 ^P	Principles of Macroeconomics	3	
L*** 201 ^P	Second Year Language II ¹	3	
MATH 261 ^P	Calculus for Physical Scientists III	4	
MATH 340 ^P	Introduction to Ordinary Differential Equations	4	4A, 4B
PH 141 ^P	Physics for Scientists and Engineers I	5	3A
PH 142 ^P	Physics for Scientists and Engineers II	5	3A
POLS 131	Current World Problems	3	3E
CO 300 ^P	Writing Arguments	3	2
	OR		
JTC 300 ^P	Professional and Technical Communication	3	2
	Technical electives ²	3	
	Additional Requirements for Graduation ⁸	0	
	TOTAL	33	
JUNIOR			
CIVE 260 ^P	Engineering Mechanics-Statics	3	
CIVE 261 ^P	Engineering Mechanics-Dynamics	3	
MECH 237 ^P	Introduction to Thermal Sciences	3	
POLS 232	International Relations	3	
	OR		
POLS 241	Comparative Government and Politics	3	
STAT 315 ^P	Statistics for Engineers and Scientists	3	
	Foreign language minor ³	6	
	Historical perspectives ⁴	3	3D
	Electives from approved list ⁵	3	
	Technical electives ²	3	
	Additional Requirements for Graduation ⁸	0	
	TOTAL	30	
SENIOR			
CIVE 300 ^P	Fluid Mechanics	4	
ECE 204 ^P	Introduction to Electrical Engineering	3	
ECON 370 ^P	Comparative Economic Systems	3	
	Foreign language minor ³	6	
	Technical electives ²	13-15	

FRESHMAN			
Add:			
GR100	Introduction to Geography	3	
Delete:			
ECON 202	Principles of Microeconomics	3	
Change:			
L*** 200 ^P	Second Year Language I ^{1,7}	3-5	3B
CHANGE:			
Total:		31-33	
SOPHOMORE			
Delete:			
ECON 204	Principles of Macroeconomics	3	
POLS 131	Current World Problems	3	3E
Add:			
ECON 202 ^P	Principles of Microeconomics	3	3C
Change:			
L*** 201 ^P	Second Year Language II ¹	3-5	
Total		30-32	
JUNIOR			
Delete:			
POLS232	International Relations	3	
OR			
POLS241	Comparative Government and Politics	3	
Electives from approved list		3	
Add:			
POLS241	Comparative Government and Politics	3	3E
INST300 ^P	Approaches to International Studies	3	4B
International Studies Course Selection ^{6,9}		3	
Total		33	
SENIOR			
Delete:			
ECON370	Comparative Economic Systems	3	
Add:			
International Studies Course Selection ^{6,9}		6	

		Additional Requirements for Graduation ⁸	0
		TOTAL	29-31
FIFTH YEAR			
<i>Select one of the following pairs of courses:</i>			
CBE	451 ¹	Chemical and Biological Engineering Design I ⁶	3 4C
CBE	452 ¹	Chemical and Biological Engineering Design II	3 4C
OR			
CIVE	402 ²	Senior Design Principles ⁴	3
CIVE	403 ²	Senior Project Design	3 4C
OR			
ECE	401 ²	Senior Design Project I ⁶	3
ECE	402 ²	Senior Design Project II	3 4C
OR			
MECH	486A ³	Engineering Design Practicum I ⁶	4 4C
MECH	486B ³	Engineering Design Practicum II	4 4C
OR			
		Arts and humanities ⁵	6 3B
		Foreign language minor ³	3
		Electives from approved list ⁵	9
		Technical electives ²	6
		Free electives	2
		Additional Requirements for Graduation ⁸	0
		TOTAL	32-34
PROGRAM TOTAL = 157 credits			

¹ 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 Effective Fall 2007, foreign language courses are in separate prefixes (all starting with L and followed by three letters designating the language, e.g., LFRE is French, LGER is German, etc.).

² Courses are to be selected with the approval of the engineering adviser. A minimum of 7 credits must be upper division.

³ Each student is required to complete a minor in a foreign language.

⁴ Select courses from approved list that fall into category 3D in the All-University Core Curriculum (AUCC).

⁵ The list of approved courses is available in the office of the Associate Dean for Academic Affairs, College of Engineering or in the Dean's Office, College of Liberal Arts.

⁶ Students in this concentration may need to obtain a prerequisite override from the appropriate department to enroll in this course.

⁷ Select two courses from list of courses in category 3B in the AUCC.

⁸ 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.

Change:			
CIVE	300 ^P	Fluid Mechanics	3
CIVE	301 ^P	Fluid Mechanics Laboratory	1
Total			32-34
FIFTH YEAR			
Delete:			
Electives from approved list			9
Free Electives			2
Change:			
Arts and Humanities ⁷			3 3B
Add:			
International Studies Course Selection ^{6,9}			9
INST492 ^P	Seminar		3 4C
TOTAL:			30-32
PROGRAM TOTAL = 153-161 credits			

Change footnote 3:

Each student is required to complete a minor in a foreign language (minimum of 15 upper division credits). See Foreign Languages and Literatures Department

Change footnote 4:

Choose a historical perspective course depending on your International Studies option area:

- European: HIST100 or HIST101
- Middle East North Africa: HIST115
- Latin America: HIST171
- Asia: HIST120 or 121

Change Footnote 6:

Students in this concentration may need to obtain an override from either the appropriate Engineering Department for Engineering courses or the instructor for International Studies course selections.

Change Footnote 7:

Select two courses from list of courses in category 3B in the AUCC. Only 3 credits of language count here.

Add Footnote 9:

International Studies Course Selection List - need 18 credits total
 Select a minimum of three different subject codes: 6 credits minimum from (1)History and Politics and 6 credits minimum from (2)Thought and Culture, 3 credits minimum from (3)International Studies(same for all option areas). select an additional 3 credits of your choice from option area 1, 2, or 3, to bring courses to a total of 18credits with 15 upper division.

WE CAN LIST THEM ALL OR THE FOOTNOTE CAN SAY SOMETHING LIKE SEE LIST ON WEBSITE..... OR GET LIST FROM ADVISING CENTER OR COLLEGE OF ENGINEERING DEAN'S OFFICE

EUROPEAN

1)History and Politics in Europe

Select a minimum of 6 credits from the following:

ECON	376P	Marxist Economic Thought	3
HIST	300P	Ancient Greece to 323 B.C.E.	3
HIST	301P	Roman Republic	3
HIST	302P	Roman Empire	3
HIST	303P	Hellenistic World: Alexander to Cleopatra	3
HIST	304P	Women in Ancient Greece and Rome	3
HIST	310	Medieval Europe	3
HIST	311P	Medieval England	3
HIST	312P	Women in Medieval Europe	3
HIST	315P	Tudor Stuart England, 1485-1689	3
HIST	317P	Renaissance and Reformation Europe	3
HIST	318	Age of Enlightenment	3
HIST	319P	Early Modern France, 1500-1789	3
HIST	320P	Women and Gender in Europe, 1450-1789	3
HIST	321P	Industrial Society in Europe, 1600-1871	3
HIST	322P	Industrial Society in Europe, 1871-1989	3
HIST	323P	Russia Before 1700	3
HIST	324P	Imperial Russia	3
HIST	328	Modern Europe, 1815-1914	3
HIST	329P	Europe in Crisis, 1914-1941	3
HIST	330P	Eastern Europe Since 1918	3

HIST	331P	The Soviet Union	3	
HIST	332P	Germany Since World War I	3	
HIST	333	Contemporary Europe	3	
HIST	335P	Britain in the 20th Century	3	
HIST	336P	Germany from Napoleon to WWI	3	
HIST	337P	Modern Italy: Politics, Society, and Culture	3	
HIST	339P	World War II in Europe	3	
HIST	461P	Rise and Fall of British Empire	3	
HIST	469P	The Crusades	3	
POLS	341P	Western European Government and Politics	3	
POLS	345P	Russian, Central, and East European Politics	3	
POLS	420	History of Political Thought	3	
POLS	421	Contemporary Political Theories	3	

(2) Thought and Cultures in Europe

Select a minimum of 6 credits from the following:

ANTH	324	Folk Religion	3	
ART	110	Art History I	3	
ART	111P	Art History II	3	
ART	212P	Art History III	3	
ART	410P	Greek Art	3	
ART	411P	History of Medieval Art	3	
ART	412P	History of Renaissance Art	3	
ART	414P	History of Baroque and Rococo Art	3	
ART	415P	History of 19th-Century European Art	3	
ART	416P	History of European Art, 1900 to 1945	3	
ART	417P	Roman Art	3	
ART	420P	Travel Abroad—Art History in Italy	3-5	
E	276	Survey of British Literature I	3	3B
E	277	Survey of British Literature II	3	3B
E	337	Western Mythology	3	
E	342P	Shakespeare I	3	
E	343P	Shakespeare II	3	
E	424P	English Renaissance	3	
E	426P	British Romanticism	3	
E	427P	Victorian Age	3	
E	430P	18th-Century English Fiction	3	
E	431P	19th-Century English Fiction	3	
E	432P	20th-Century English Fiction	3	
E	443P	English Renaissance Drama	3	
E	444P	Restoration and 18th-Century Drama	3	
E	445P	Modern British and European Drama	3	
E	452P	Masterpieces of European Literature	3	
E	455P	European Literature After 1900	3	
E	460P	Chaucer	3	
E	463P	Milton	3	
E	475P	American Poetry Before 1900	3	
LAND	120	History of the Designed Landscape	3	
L**250		Language, Literature, & culture in Translation (3 or max)	3	
L***	310P	Approaches to Literature (LFRE, LGER, LSPA)	3	
L***	313P	Intro to Translation and Interpreting (LFRE, LGER, LSPA)	3	
L***	335P	Issues in Culture ((LFRE, LGER, LSPA)	3	
L***	345P	Business Language (LFRE, LGER, LSPA)	3	
L***	355P	20th-Century Literature (LFRE, LGER, LSPA)	3	
L***	413P	Advanced Translation and Interpreting (LFRE, LGER, LSPA)	3	
L***	441P	Advanced Business Language (LFRE, LGER, LSPA)	3	
L***	450P	Selected Literary Movements and Periods (LFRE, LGER, LSPA)	3	
L***	452P	Genre Studies (LFRE, LGER, LSPA)	3	
L***	453P	Author Studies (LFRE, LGER, LSPA)	3	
L***	454P	Topic Studies (LFRE, LGER, LSPA)	3	
LFRE	433A-BP	Advanced French/Francophone Culture	3	
LFRE	460P	French/Francophone Women Writers	3	
LGEN	465C	Studies in Foreign Film—Europe	3	
LGER	434P	Advanced German Culture	3	
LSPA	437P	Advanced Spanish Culture	3	
LSPA	443P	Spanish Theatre	3	
MU	334P	Music History I	3	
MU	335P	Music History II	3	
PHIL	300P	Ancient Greek Philosophy	3	
PHIL	301P	17th and 18th Century European Philosophy	3	
PHIL	302P	19th-Century Philosophy	3	
PHIL	409P	20th-Century Philosophy	3	

(3) International Studies

Select a minimum of 3 credits from the following:

AM	430P	International Retailing	3	
AM	460	Historic Textiles	3	
AGRI	270/			
IE	270	World Interdependence—Population and Food	3	
	3E			
ANTH	200	Cultures and the Global System	3	3E
ANTH	352P	Geoarchaeology	3	
ANTH	415	Indigenous Ecologies and the Modern World	3	
ANTH	422P/			
SOC	422P	Comparative Legal Systems	3	
ANTH	441P	Method in Cultural Anthropology	3	
ANTH	479/			

IE	479	International Development Theory and Practice	3	
AREC	240/			
ECON	240	Issues in Environmental Economics	3	3C
AREC	415P	International Agricultural Trade	3	
AREC	460P	Economics of World Agriculture	3	
BUS	350P	Travel Abroad—International Comparative Management		3
CON	450/			
INTD	450	Travel Abroad -Sustainable Building	3	
ECON	204P	Principles of Macroeconomics	3	3C
ECON	332P/			
POLS	332P	International Political Economy	3	
ECON	370P	Comparative Economic Systems	3	
ECON	440P	International Economics I	3	
ECON	442P	International Economics II	3	
ECON	460P	Economic Development	3	
FIN	475P	International Business Finance	3	
GR	320P	Cultural Geography	3	
HIST	462P	Themes in World History	3	
HIST	463P	Science and Technology in Modern History		3
HIST	470P	World Environmental History, 1500-Present		3
HIST	471P	History of Antarctica, 1800-Present	3	
IE	179	Globalization: Exploring our Global Village	3	
IE	370	Model United Nations	3	3E
IE	450/			
SOWK	450	International Social Welfare and Development		3
IE	470	Women and Development	3	
IE	471	Children and Youth in Global Context	3	
IE	472	Education for Global Peace	3	
JTC	412	International mass Communication	3	
MGT	475P	International Business Management	3	
MKT	365P	International Marketing	3	
NRRT	320	International Issues—Recreation and Tourism		3
POLS	362P	Global Environmental Politics	3	
POLS	431P	International Law	3	
POLS	433P	International Organization	3	
POLS	435P	United States Foreign Policy	3	
POLS	436P	Comparative Foreign Policy	3	
POLS	437	International Security	3	
SOC	364P			
SOC	429P	Comparative Urban Studies	3	
SOC	482A-BP	Travel Study in Sociology	6	
SPCM	434	Intercultural Communication	3	

ASIA

1)History and Politics of Asia
 Select a minimum of 6 credits from the following:

HIST 440	Modern South Asia	3
HIST 441	South Asia Since Independence	3
HIST 450	Ancient China	3
HIST 451	Medieval China and Central Asia	3
HIST 452	China in the Modern World, 1600-Present	3
HIST 455	Tokugawa and Modern Japan, 1600-Present.	3
HIST 456	East Asia in the Age of Empire, 1800-Present	3
HIST 464	Pacific Wars: Philippines-WWII	3
HIST 465	Pacific Wars: Korea and Vietnam	3
HIST 466	U.S. China Relations Since 1800	3
HIST 533	Reading Seminar-East Asia	3
HIST 534	Reading Seminar-South Asia.	3
IE 271	India	3
POLS 445	Comparative Asian Politics	3

2)Thought and Cultures of Asia
 Select a minimum of 6 credits from the following:

ANTH 312	Modern Indian Culture and Society	3
ANTH 314	Southeast Asian Cultures and Societies	3
ART 112	History of Asian Art	3
ART 316	Art of the Pacific	3
E 356	Asian Literature	3
LCHI 250 or LJPJN 250	Chinese/Japanese Language, Literature, Culture in Translation-	3
LCHI 309	Contemporary Chinese Literature and the Arts.	3
LGEM 465B	Studies in Foreign Film (Asia)	3
LJPJN 496(3 credit limit)	Group Study-Japanese	3
LJPJN/LCHI 365	Introduction to Japanese/Chinese Cinema Studies	3
LJPJN/LCHI 404	Historical Aspects of the Language and Society	3
LCHI 496 (3 credit limit)	Group Study-Chinese	3
PHIL 106	Wisdom of the East-Oriental Philosophy	3
PHIL 171	Religions of the East	3
PHIL 349	Philosophies of East Asia	3
PHIL 360	Topics in Asian Philosophy	3
PHIL 371	Contemporary Eastern Religious Thought	3
PHIL 379	Mysticism East and West	3

(Will not get credit for both LJPJN/LCHI 365 and LGEM 465B)

LATIN AMERICA

(1)-History and Politics of Latin America:

Select a minimum of 6 credits from the following:

ETST	370	Caribbean Identities	3
ETST	371	The Modern Caribbean	3
HIST	410	Colonial Latin America	3
HIST	411	Latin America Since Independence.	3
HIST	412	Mexico	3
HIST	413	Caribbean Civilization	3
HIST	414	Revolutions in Latin America	3
HIST	460	Slavery in the Americas	3
POLS	331	Politics and Society Along Mexican Border	3
POLS	446	Politics of South America	3
POLS	447	Politics in Mexico, Central America, Caribbean	3

(2)-Thought and Culture of Latin America:

Select a minimum of 6 credits from the following:

ANTH	319/		
ETST	319	Latin American Peasantries	3
ANTH	451	Andean Archaeology and Ethnohistory	3
ANTH	452	Archaeology of Mesoamerica	3
ART	312	History of Pre-Columbian Art	3
DM	470A-B	International Design and Merchandising	3
LSPA	310	Approaches to Spanish Literature	3
LSPA	313	Introduction to Spanish Translation and Interpreting	3
LSPA	335	Issues in Hispanic Culture	3
LSPA	345	Business Spanish	3
LSPA	365	Studies in Foreign Film-Spanish	3
OR			
LSPA	465A	Studies in Foreign Film-Spain	3
LSPA	435	Caribbean Culture in Hispanic Literature	3
LSPA	436	Advanced Latin American Culture	3
LSPA	437	Advanced Spanish Culture	3
LSPA	441	Advanced Business Spanish	3
LSPA	445	Women Writers in the Hispanic Worlds	3
LSPA	449	Spanish-American Literary Movements and Periods	3
LSPA	452	Genre Studies in Spanish	3
LSPA	453	Author Studies in Spanish	3
LSPA	454	Topic Studies in Spanish	3
SOC	366	Peoples and Institutions of Latin America	3

Middle East North Africa

1)History and Politics of the Middle East and North Africa:

Select a minimum of 6 credits from the following:

HIST	303	Hellenistic World: Alexander to Cleopatra	3
HIST	421	Africa: Colonialism to Independence	3
HIST	422	Modern Africa	3
HIST	431	Ancient Israel	3
HIST	432	Sacred History in the Bible and the Qur'an	3
HIST	433	Muhammad and the Origins of Islam	3
HIST	435	Jihad and Reform in Islamic History	3
HIST	438	The Modern Middle East	3
HIST	469	The Crusades	3
HIST	532	Reading Seminar-Middle East	3
POLS	449	Middle East Politics	3

2)Thought and Cultures of the Middle East and North Africa

Select a minimum of 6 credits from the following:

LARA	250	Arabic Language, Literature, Culture in Translation	3
LGEN465D		Studies in Foreign Film (Africa)	3
PHIL171		Religions of the West	3
PHIL 335		Islam: Cosmology and Practice	3
PHIL 379		Mysticism East and West	3
PHIL 455		Islamic Philosophy	3

SECTION IV - SIGNATURES OF AFFECTED DEPARTMENTS
(Required before consideration by University Curriculum Committee)

Affected departments include any department outside the home department, whose course is used in the program. Affected departments might also include other departments offering a program with similar or overlapping content.

This proposal for a curricular change or addition of a program of study has been reviewed and agreed to by the following departments affected by the changes.

<i>Kelly Ann Long</i>	<i>Liberal Arts</i>	<i>4-28-14</i>
Signature	Department	Date
<i>[Signature]</i>	<i>International Studies</i>	<i>4-25-14</i>
Signature	Department	Date
Signature	Department	Date
Signature	Department	Date

College of Engineering and
College of Liberal Arts
Major in Engineering Science (B.S. degree)
~~International Engineering and International Studies Concentration and~~
Major in International Studies (B.A. degree)

Effective Fall 2015

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

To qualify for graduation, Engineering Science majors must achieve a minimum 2.000 grade point average at Colorado State in all courses in engineering, mathematics, computer science, statistics, physics, and chemistry as well as courses taken as technical electives.

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
CHEM 111 ^P	General Chemistry I	4	
CHEM 112 ^P	General Chemistry Laboratory I	1	
CHEM 113 ^P	General Chemistry II	3	
CIVE 102	Introduction: Civil/Environmental Engineering	3	
CIVE 103 ^P	Engineering Graphics and Computing	3	
CO 150 ^P	College Composition	3	1A
ECON 202^P	Principles of Microeconomics	3	3C
<u>GR 100</u>	<u>Introduction to Geography</u>	<u>3</u>	<u>3C</u>
L*** 200 ^P	Second Year Language I	3-5	3B
MATH 160 ^P	Calculus for Physical Scientists I	4	1B
MATH 161 ^P	Calculus for Physical Scientists II	4	
	Additional Requirements for Graduation ¹	0	
	TOTAL	<u>31-33</u>	
SOPHOMORE			
<u>ECON 202^P</u>	<u>Principles of Microeconomics</u>	<u>3</u>	<u>3C</u>
ECON 204^P	Principles of Macroeconomics	3	
L*** 201 ^P	Second Year Language II	3-5	
MATH 261 ^P	Calculus for Physical Scientists III	4	
MATH 340 ^P	Introduction to Ordinary Differential Equations	4	4A, 4B
PH 141 ^P	Physics for Scientists and Engineers I	5	3A
PH 142 ^P	Physics for Scientists and Engineers II	5	3A
POLS 131	Current World Problems	3	3E
CO 300 ^P	Writing Arguments	3	2
	OR		
JTC 300 ^P	Professional and Technical Communication	3	2
	Technical Electives ²	3	
	Additional Requirements for Graduation ¹	0	
	TOTAL	<u>33</u>	
		<u>30-32</u>	
JUNIOR			
CIVE 260 ^P	Engineering Mechanics—Statics	3	
CIVE 261 ^P	Engineering Mechanics—Dynamics	3	
	<i>Select one Historical Perspectives course that coordinates with chosen International Studies geographic option area:</i>		
<u>European Studies</u>			
<u>HIST 100</u>	<u>Western Civilization, Pre-Modern</u>	<u>3</u>	<u>3D</u>
<u>HIST 101</u>	<u>Western Civilization, Modern</u>	<u>3</u>	<u>3D</u>
<u>Middle East and North Africa</u>			

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Course	Title	Cr	AUCC
HIST 115	Islamic World to 1800	3	3D
<u>Asia</u>			
HIST 120	Asian Civilizations I	3	3D
HIST 121	Asian Civilizations I	3	3D
<u>Latin America</u>			
HIST 171	World History, 1500-Present	3	3D
INST 300 ^P	Approaches to International Studies	3	4B
MECH 237 ^P	Introduction to Thermal Sciences	3	
POLS 232	International Relations	3	
OR			
POLS 241	Comparative Government and Politics	3	
STAT 315 ^P	Statistics for Engineers and Scientists	3	
	Foreign Language Minor ³	6	
	Electives from approved list ⁵	3	
	International Studies Course Selection ^{4, 5}	3	
	Technical Electives ²	3	
	Historical Perspectives ⁴	3	3D
	Additional Requirements for Graduation ¹	0	
	TOTAL	<u>3033</u>	
SENIOR			
CIVE 300 ^P	Fluid Mechanics	3	
CIVE 301 ^P	Fluid Mechanics Laboratory	1	
ECE 204 ^P	Introduction to Electrical Engineering	3	
ECON 370 ^P	Comparative Economic Systems	3	
	Foreign language minor ³	6	
	International Studies Course Selection ^{4, 5}	6	
	Technical Electives ²	13-15	
	Additional Requirements for Graduation ¹	0	
	TOTAL	<u>29-31</u>	
		<u>32-34</u>	
FIFTH YEAR			
<i>Select one of the following pairs of courses:</i>			
CBE 451 ^P	Chemical and Biological Engineering Design I ⁴⁶	3	4C
CBE 452 ^P	Chemical and Biological Engineering Design II	3	4C
OR			
CIVE 402 ^P	Senior Design Principles ⁴⁶	3	
CIVE 403 ^P	Senior Project Design	3	4C
OR			
ECE 401 ^P	Senior Design Project I ⁴⁶	3	
ECE 402 ^P	Senior Design Project II	3	4C
OR			
MECH 486A ^P	Engineering Design Practicum I ⁴⁶	4	4C
MECH 486B ^P	Engineering Design Practicum II	4	4C
INST 492 ^P	Seminar	3	4C 4A
	Arts and Humanities ⁶⁷	6-9	3B
	Foreign language minor ³	3	
	Electives from approved list ⁵	9	
	International Studies Course Selection	9	
	Technical Electives ²	6	
	Free electives	2	
	Additional Requirements for Graduation ¹	0	

Course	Title	Cr	AUCC
<u>1. History and Politics in Europe.</u>			
<i>Select a minimum of 6 credits from the following:</i>			
ECON 376 ^P	Marxist Economic Thought	3	
HIST 300 ^P	Ancient Greece to 323 B.C.E. ⁴	3	
HIST 301 ^P	Roman Republic ⁴	3	
HIST 302 ^P	Roman Empire ⁴	3	
HIST 303 ^P	Hellenistic World: Alexander to Cleopatra ⁴	3	
HIST 304 ^P	Women in Ancient Greece and Rome ⁴	3	
HIST 310 ^P	Medieval Europe ⁴	3	
HIST 311 ^P	Medieval England ⁴	3	
HIST 312 ^P	Women in Medieval Europe ⁴	3	
HIST 315 ^P	Tudor Stuart England. 1485-1689 ⁴	3	
HIST 317 ^P	Renaissance and Reformation Europe ⁴	3	
HIST 318 ^P	The Age of the Enlightenment ⁴	3	
HIST 319 ^P	Early Modern France. 1500-1789 ⁴	3	
HIST 320 ^P	Women and Gender in Europe. 1450-1789 ⁴	3	
HIST 321 ^P	Industrial Society in Europe. 1600-1871 ⁴	3	
HIST 322 ^P	Industrial Society in Europe. 1871-1989 ⁴	3	
HIST 323 ^P	Russia Before 1700 ⁴	3	
HIST 324 ^P	Imperial Russia ⁴	3	
HIST 328 ^P	Modern Europe. 1815-1914 ⁴	3	
HIST 329 ^P	Europe in Crisis. 1914-1941 ⁴	3	
HIST 330 ^P	Eastern Europe Since 1918 ⁴	3	
HIST 331 ^P	The Soviet Union ⁴	3	
HIST 332 ^P	Germany Since World War I ⁴	3	
HIST 333 ^P	Contemporary Europe ⁴	3	
HIST 335 ^P	Britain in the 20th Century ⁴	3	
HIST 336 ^P	Germany from Napoleon to WWI ⁴	3	
HIST 337 ^P	Modern Italy: Politics, Society, and Culture ⁴	3	
HIST 339 ^P	World War II in Europe ⁴	3	
HIST 461 ^P	Rise and Fall of British Empire ⁴	3	
HIST 469 ^P	The Crusades ⁴	3	
POLS 341 ^P	Western European Government and Politics	3	
POLS 345 ^P	Russian, Central, and East European Politics	3	
POLS 420	History of Political Thought	3	
POLS 421	Contemporary Political Theories	3	
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<u>2. Thought and Cultures in Europe</u>			
<i>Select a minimum of 3 credits from the following:</i>			
ART 110	Art History I	3	
ART 111 ^P	Art History II	3	
ART 212 ^P	Art History III ⁴	3	
ART 410 ^P	Greek Art ⁴	3	
ART 411 ^P	History of Medieval Art ⁴	3	
ART 412 ^P	History of Renaissance Art ⁴	3	
ART 414 ^P	History of Baroque and Rococo Art ⁴	3	
ART 415 ^P	History of 19th Century European Art ⁴	3	
ART 416 ^P	History of European Art. 1900 to 1945 ⁴	3	
ART 417 ^P	Roman Art ⁴	3	
ART 420 ^P	Travel Abroad Art History in Italy ⁴	3-5	
E 276	Survey of British Literature I	3	3B
E 277	Survey of British Literature II	3	3B
E 337 ^P	Western Mythology	3	

Course	Title	Cr	AUCC
E 342 ^P	Shakespeare I	3	
E 343 ^P	Shakespeare II	3	
E 424 ^P	English Renaissance	3	
E 426 ^P	British Romanticism	3	
E 427 ^P	Victorian Age	3	
E 430 ^P	18th-Century English Fiction	3	
E 431 ^P	19th-Century English Fiction	3	
E 432 ^P	20th-Century British Fiction	3	
E 443 ^P	English Renaissance Drama	3	
E 444 ^P	Restoration and 18th-Century Drama	3	
E 445 ^P	Modern British and European Drama	3	
E 452 ^P	Masterpieces of European Literature	3	
E 455 ^P	European Literature after 1900 ⁴	3	
E 460 ^P	Chaucer ⁴	3	
E 463 ^P	Milton ⁴	3	
E 475 ^P	American Poetry Before 1900 ⁴	3	
LAND 120	History of the Designed Landscape	3	
L*** 250	Language, Literature, Culture in Translation	3	3B
L*** 310 ^P	Approaches to Literature ⁸	3	
L*** 313 ^P	Introduction to Translation and Interpreting ⁸	3	
L*** 335 ^P	Issues in Culture ⁸	3	
L*** 345 ^P	Business Language ⁸	3	
L*** 355 ^P	20th Century Literature ⁹	3	
L*** 413 ^P	Advanced Translation and Interpreting ⁸	3	
L*** 441 ^P	Advanced Business Language ⁸	3	
L*** 450 ^P	Selected Literary Movements and Periods ⁸	3	
L*** 452 ^P	Genre Studies ⁸	3	
L*** 453 ^P	Author Studies ⁸	3	
L*** 454 ^P	Topic Studies ⁸	3	
LFRE 433A-B ^P	Advanced French/Francophone Culture ⁴	3	
LFRE 460 ^P	French/Francophone Women Writers	3	
LGEN 465C	Studies in Foreign Film—Europe	3	
LGER 434 ^P	Advanced German Culture	3	
LSPA 437 ^P	Advanced Spanish Culture	3	
LSPA 443 ^P	Spanish Theatre	3	
MU 334 ^P	Music History I ⁴	3	
MU 335 ^P	Music History II ⁴	3	
PHIL 300 ^P	Ancient Greek Philosophy ⁴	3	
PHIL 301 ^P	17th and 18th Century European Philosophy ⁴	3	
PHIL 302 ^P	19th Century Philosophy ⁴	3	
PHIL 409 ^P	20th Century Philosophy ⁴	3	
LATIN AMERICA			
1. History and Politics of Latin America			
<i>Select a minimum of 6 credits from the following:</i>			
ETST 370	Caribbean Identities	3	
ETST 371	The Modern Caribbean	3	
HIST 410 ^P	Colonial Latin America	3	
HIST 411 ^P	Latin America Since independence	3	
HIST 412 ^P	Mexico	3	
HIST 413 ^P	Caribbean Civilization	3	
HIST 414 ^P	Revolutions in Latin America	3	
HIST 460 ^P	Slavery in the Americas	3	

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<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
POLS 331	Politics and Society Along Mexican Border	3	
POLS 446 ^P	Politics of South America	3	
POLS 447 ^P	Politics in Mexico, Central America Caribbean	3	
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2. Thought and Culture of Latin America			
<i>Select a minimum of 3 credits from the following:</i>			
ANTH 319 ^P /	Latin American Peasantries ⁴	3	
ETST 319 ^P			
ANTH 451 ^P	Andean Archaeology and Ethnohistory ⁴	3	
ANTH 452 ^P	Archaeology of Mesoamerica ⁴	3	
ART 312 ^P	History of Pre-Columbian Art ⁴	3	
DM 470A-B ^P	International Design and Merchandising ⁴	2	
LSPA 310 ^P	Approaches to Spanish Literature	3	
LSPA 313 ^P	Introduction to Spanish translation and Interpreting	3	
LSPA 335 ^P	Issues in Hispanic Culture	3	
LSPA 345 ^P	Business Spanish	3	
LSPA 365 ^P	Studies in Foreign Film—Spanish	3	
OR			
LSPA 465B ^P	Studies in Foreign Film—Latin America ⁴	3	
LSPA 435 ^P	Caribbean Culture in Hispanic Literature	3	
LSPA 436 ^P	Advanced Latin American Culture	3	
LSPA 437 ^P	Advanced Spanish Culture	3	
LSPA 441 ^P	Advanced Business Spanish	3	
LSPA 445 ^P	Women Writers in the Hispanic Worlds	3	
LSPA 449 ^P	Spanish-American Literary Movements and Periods	3	
LSPA 452 ^P	Genre Studies in Spanish	3	
LSPA 453 ^P	Author Studies in Spanish	3	
LSPA 454 ^P	Topic Studies in Spanish	3	
SOC 366 ^P	Peoples and Institutions of Latin America ⁴	3	
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MIDDLE EAST AND NORTH AFRICA			
1. History and Politics of the Middle East and North Africa			
<i>Select a minimum of 6 credits from the following:</i>			
HIST 303 ^P	Hellenistic World: Alexander to Cleopatra	3	
HIST 421 ^P	Africa: Colonialism to Independence ⁴	3	
HIST 422 ^P	Modern Africa ⁴	3	
HIST 431 ^P	Ancient Israel	3	
HIST 432 ^P	Sacred History in the Bible and the Qur'an	3	
HIST 433 ^P	Jihad and Reform in Islamic History	3	
HIST 435 ^P	Jihad and Reform in Islamic History	3	
HIST 469 ^P	The Crusades	3	
HIST 532 ^P	Reading Seminar—Middle East ⁴	3	
POLS 449 ^P	Middle East Politics	3	
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2. Thought and Culture of the Middle East and North Africa			
<i>Select a minimum of 3 credits from the following:</i>			
LARA 250 ^P	Arabic Language, Literature, Culture in Translation	3	3B
LGEN 465D ^P	Studies in Foreign Film: Africa	3	
PHIL 171	Religions of the West	3	
PHIL 335	Arabic Language, Literature, Culture in Translation	3	
PHIL 379 ^P	Studies in Foreign Film: Africa	3	
PHIL 455 ^P	Religions of the West	3	
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INTERNATIONAL STUDIES			
3. International Studies Courses for all geographic option areas			
<i>Select a minimum of 6 credits from the following:</i>			

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
AGRI 270/ IE 270	<u>World Interdependence—Population and Food</u>	3	3E
AM 430 ^P	<u>International Retailing⁴</u>	3	
AM 460	<u>Historic Textiles</u>	3	
ANTH 200	<u>Cultures and the Global System</u>	3	3E
ANTH 352 ^P	<u>Geoarchaeology⁴</u>	3	
ANTH 415	<u>Indigenous Ecologies and the Modern World</u>	3	
ANTH 422 ^P / SOC 422 ^P	<u>Comparative Legal Systems⁴</u>	3	
ANTH 441 ^P	<u>Method in Cultural Anthropology⁴</u>	3	
ANTH 479 ^P / IE 479 ^P	<u>International Development Theory and Practice</u>	3	
AREC 240/ ECON 240	<u>Issues in Environmental Economics</u>	3	3C
AREC 415 ^P	<u>International Agricultural Trade⁴</u>	3	
AREC 460 ^P	<u>Ag- and Resource-Based Economic Development⁴</u>	3	
BUS 350 ^P	<u>Travel Abroad-International Comparative Management⁴</u>	3	
CON 450/ INTD 450	<u>Travel Abroad-Sustainable Building</u>	3	
ECON 204 ^P	<u>Principles of Macroeconomics</u>	3	3C
ECON 332 ^P / POLS 332 ^P	<u>International Political Economy⁴</u>	3	
ECON 370 ^P	<u>Comparative Economic Systems</u>	3	
ECON 440 ^P	<u>International Economics I⁴</u>	3	
ECON 442 ^P	<u>International Economics II⁴</u>	3	
ECON 460 ^P	<u>Economic Development⁴</u>	3	
FIN 475 ^P	<u>International Business Finance⁴</u>	3	
GR 320 ^P	<u>Cultural Geography</u>	3	
HIST 462 ^P	<u>Themes in World History</u>	3	
HIST 463 ^P	<u>Science and Technology in Modern History⁴</u>	3	
HIST 470 ^P	<u>World Environmental History, 1500-Present⁴</u>	3	
HIST 471 ^P	<u>History of Antarctica, 1800-Present⁴</u>	3	
IE 179	<u>Globalization: Exploring Our Global Village</u>	3	3E
IE 370	<u>Model United Nations</u>	3	3E
IE 450/ SOWK 450	<u>International Social Welfare and Development</u>	3	
IE 470	<u>Women and Development</u>	3	
IE 471	<u>Children and Youth in Global Context</u>	3	
IE 472 ^P	<u>Education for Global Peace</u>	3	
JTC 412	<u>International Mass Communication</u>	3	
MGT 475 ^P	<u>International Business Management⁴</u>	3	
MKT 365 ^P	<u>International Marketing⁴</u>	3	
NRRT 320	<u>International Issues-Recreation and Tourism</u>	3	
POLS 362 ^P	<u>Global Environmental Politics</u>	3	
POLS 431 ^P	<u>International Law⁴</u>	3	
POLS 433 ^P	<u>International Organization⁴</u>	3	
POLS 435 ^P	<u>United States Foreign Policy⁴</u>	3	
POLS 436 ^P	<u>Comparative Foreign Policy⁴</u>	3	
POLS 437	<u>International Security</u>	3	
SOC 364 ^P	<u>Agriculture and Global Society⁴</u>	3	
SOC 429 ^P	<u>Comparative Urban Studies⁴</u>	3	
SOC 482A-B	<u>Travel Abroad¹⁰</u>	3	

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
SPCM 434 ^P	Intercultural Communication	3	

^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 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.

² Courses are to be selected with the approval of the Engineering advisor. A minimum of 7 credits must be upper division.

³ Each student is required to complete a minor in a foreign language. Contact the Department of Foreign Languages and Literatures.

⁴ Students may need to obtain an override in order to register for some courses. For Engineering courses, students should see the appropriate Engineering department. For International Studies courses, students should contact the instructor.

⁵ To fulfill the International Studies Course Selection requirement, select a minimum total of 18 credits, of which at least 15 must be upper-division (300- to 400-level), from a minimum of three different subject codes. Students will choose an International Studies geographic option area, and from those course lists select: a minimum of 6 credits from 1) History and Politics; a minimum of 3 credits from 2) Thought and Culture; a minimum of 6 credits from 3) International Studies (list is same for all option areas); and an additional minimum 3 credits of choice from lists 1, 2, or 3.

⁶ Select one course from the list of courses in category 3B of the All-University Core Curriculum (AUCC) except for L*** language courses.

⁷ Credit allowed for only one of LCHI 365, LGEN 465B, LIPN 365.

⁴ ~~Select courses from college-approved list of courses from category 3D of the All-University Core Curriculum (AUCC).~~

⁵ ~~The list of approved courses is available in the office of the Associate Dean for Academic Affairs, College of Engineering or in the Dean's Office, College of Liberal Arts.~~

⁶ ~~Students in this concentration may need to obtain a prerequisite override from the appropriate department to enroll in this course.~~

⁷ ~~Select two courses from list of courses in category 3B of the AUCC.~~

⁸ ~~French (LFRE), German (LGER), or Spanish (LSPA) only.~~

⁹ ~~French (LFRE) or German (LGER) only.~~

¹⁰ To count toward the International Studies Course Selection, travel abroad must be to a country or area covered by the chosen geographic option.