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, March 1, 2016 – 4:00 p.m. – A202 Clark Building

I. Faculty Council Agenda – March 1, 2016 – A202 Clark Building – 4:00 p.m.

A. ANNOUNCEMENTS

- 1. Next Faculty Council Meeting April 5, 2016 A202 Clark Building 4 p.m
- 2. Executive Committee Meeting Minutes located on FC website November 10 and 17, 2015; December 8 and December 15, 2015; January 19 and 26, 2016; February 9, 2016

(http://facultycouncil.colostate.edu/faculty-council-meeting-dates-agendaminutes/)

- 3. Revision to the 2014 2016 Academic Calendar Acting for Faculty Council Adopted by Executive Committee December 15, 2015
- 4. Adoption of the Hospital Provider Fee Letter Acting for Faculty Council Adopted by Executive Committee February 9, 2016 (p. 1)
- 5. Location of issues Tracking list (p. 2)
- 6. Monday, March 21, 2016, 12:00 1:00 p.m. Meena Balgopal, CSU Biology, Erica Suchman, CSU MIP: "Evaluating Teaching Effectiveness"
- 7. Re-Envision CSU. What's your vision for CSU? Please share your vision through the Re-Envision CSU website at http://source.colostate.edu/re-envision-csu/. For more information on this initiative, please see the following Source article:

http://source.colostate.edu/re-envision-colorado-state-charts-course-future/.

8. Game-Day Parking and Transportation Logistics – The preliminary parking and transportation plan for game day operations is available on the stadium "Game Day" Website at http://stadium.colostate.edu/gameday. Feedback and comments can be submitted through this website as well. A campus forum will be held later this spring (TBD).

B. MINUTES TO BE APPROVED

1. Faculty Council Meeting Minutes – December 1, 2015 (pp. 3-18)

C. UNFINISHED BUSINESS

1. Faculty Council Standing Committee Graduate Student Election (p. 19)

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, Jr.
- 5. UGO Annual Report (pp. 20-22)

E. CONSENT AGENDA

- 1. UCC Minutes November 6, 13 and 20, 2015; December 4, 2015 (*revised January 15, 2016*) and December 11, 2015; January 15, 22 and 29, 2016; February 5, 12 and 19, 2016 (pp. 23-141)
- 2. Approval of Degree Candidates Spring and Summer Semesters (p. 142)

F. ACTION ITEMS

- 1. Election Faculty Council Chair Committee on Faculty Governance Mary Stromberger Nominated (p. 143)
- 2. Election Faculty Council Vice Chair Committee on Faculty Governance Stephanie Clemons Nominated (p. 144)

- 3. Election Faculty Council Board of Governors Faculty Representative Committee on Faculty Governance Paul F. Doherty Nominated (p. 145)
- 4. Proposed revisions to Section E.2.1.5 Temporary Appointments *Academic Faculty and Administrative Professional Manual* CoNTTF (pp. 146-147)
- 5. Biennial Reviews of CIOSUs CUP (pp. 148-157)
- G. DISCUSSION

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 <u>academic faculty status</u> 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.



DATE: February 10, 2016

Office of Faculty Council 1001 Campus Delivery

TO:

The Honorable John Hickenlooper, Governor of Colorado

Fort Collins, CO 80523-1170

CC:

Dr. Tony Frank, President, Colorado State University

John Kefalas, Senator, Colorado Senate

Jeni Arndt, Representative, Colorado House of Representatives Millie Hamner, Representative, and Chair, Joint Budget Committee

FROM: Mary Stromberger, Chair, Colorado State University Faculty Council

RE: Colorado State University Faculty Council supports reclassification of Hospital Provider Fee to an

Enterprise Fund

Dear Governor Hickenlooper:

Colorado State University is home to 1,700 faculty, who are represented by the Faculty Council. It is the responsibility of Faculty Council to develop and maintain the academic policies and programs of Colorado State University. Historically, the Council has avoided involvement in State political issues, but our concern for the proposed budget cuts to higher education has grown to the level that we feel we must act. Therefore, the Council has voted to send this letter of support for changing the Hospital Provider Fee to an Enterprise Fund.

We must do everything constitutionally possible to financially protect and promote higher education in Colorado. While reclassification of the Hospital Provider Fee does not solve the larger issue of the TABOR limit, it will alleviate some of the projected budget shortcomings, and would protect the State's investment in students and employees of Colorado State University and elsewhere. Otherwise, a reduction in higher education support will jeopardize CSU's ability to fulfill its mission of access to education, research and discovery, and service to Colorado citizens and beyond.

The Faculty Council joins the Colorado Commission on Higher Education, the Board of Governors of the Colorado State University System, the Colorado State University Classified Personnel Council, the Colorado State Administrative Professional Council, and the Associated Students of Colorado State University in supporting the reclassification of the Hospital Provider Fee to an Enterprise Fund.

Sincerely,

Mary E. Stromberger Chair, Faculty Council

May Somleige

2

Faculty Council Standing Committees Tracking List Updated March 2016

Faculty Governance, chair Don Estep – elections; P&T committee composition; SAU's

Intercollegiate Athletics, chair Todd Donavan – report on student athlete safety

Libraries, chair Jerry Magloughlin — journal subscription recommendation, research data policy

Non-Tenure Track Faculty, chair Jen Aberle — NTTF career pathways

Responsibilities and Standing of Academic Faculty, chair Bill Hanneman — parental leave policy, recognition and evaluation of service, research data policy

Scholarship, Research, and Graduate Education, chair Don Samelson — professional doctorate degrees, research data policy

Scholastic Standards, chair Liba Goldstein — freshman fresh start policy, grade appeal policy

Strategic and Financial Planning, chair Katharine Leigh — Phase I and II program proposals; professional doctorate degrees

Teaching and Learning, chair Anton Betten — course survey recommendations; evaluating teaching effectiveness; academic integrity and academic misconduct policy revision (I.5)

University Curriculum Committee, chair Carole Makela — review student recommendations for diversity courses, other special actions as needed

University Programs, chair Eric Prince — review of CIOSU's (completed)

Page 1
Faculty Council Meeting Minutes
December 1, 2015

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, December 1, 2015 – 4:00 p.m. – A201 Clark Building

CALL TO ORDER

The Faculty Council meeting was called to order at 4:02 p.m. by Mary Stromberger, Chair.

ANNOUNCEMENTS

1. Next Faculty Council Meeting – February 2, 2016 – A202 Clark Building – 4 p.m.

Stromberger announced that the next Faculty Council meeting would be held on February 2, 2016 at 4:00 p.m. in Room A202 Clark Building and noted the new room number for the spring semester.

2. Executive Committee Meeting Minutes located on FC website – October 20 and 27, 2015

http://facultycouncil.colostate.edu/faculty-council-meeting-dates-agendas-minutes/

Stromberger announced that the Minutes from the October 20 and 27, 2015 Executive Committee meeting have been posted on the Faculty Council website.

MINUTES TO BE APPROVED

1. Faculty Council Meeting Minutes – November 3, 2015

Pedros-Gascon, Department of Languages, Literatures and Cultures, noted two mistakes in the minutes, where his department was identified by its former name.

By unanimous consent, the amended minutes of the November 3, 2015 Faculty Council meeting were approved. The minutes will be placed on the FC website.

UNFINISHED BUSINESS

Elections – Faculty – Faculty Council Standing Committees – CoFG

Page 2 Faculty Council Meeting Minutes December 1, 2015

BALLOT

Academic Faculty Nominations to Faculty Council Standing Committees

Committee on Strategic and Financial Planning

GREGORY PERRY	Agricultural Sciences	2018
(Nominated by Committee on Faculty G	overnance)	
ROBERT KELLER	Liberal Arts	2018
(Nominated by Committee on Faculty G	overnance)	
Committee on Resp	onsibilities and Standing of Academic Faculty	
DAN TURK	Business	2018
(Nominated by Committee on Faculty G	overnance)	

Don Estep, Committee on Faculty Governance, nominated Gregory Perry (Agricultural Sciences) for CoSFP; Robert Keller (Liberal Arts) for CoSFP; and Dan Turk (Business) for CoRSAF.

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

Perry, Keller, and Turk were unanimously elected to three-year terms for each respective committee, effective immediately.

REPORTS TO BE RECEIVED

1. Provost/Executive Vice President – Rick Miranda

Miranda reported on the following:

The December Board of Governors meeting will be held next week. The next draft of the FY17 budget, which Miranda will present to Faculty Council during the discussion session, will be presented to the Board.

The salary equity exercises were finished last week for both men and women full professors. There will be some salary adjustments as a result of the exercise. One time funds will be used this year and it will be put into the base budget for next year. Announcements will come out next week. Each faculty member whose records were under review will receive an individual communication regarding their potential salary adjustment. Adjustments were made on analysis re: peers and department. Evidence of productivity was also used — similar to what are used with the promotion review exercise.

Page 3 Faculty Council Meeting Minutes December 1, 2015

Antonio Pedros-Gascon (Languages, Literatures and Cultures) asked if the analysis took into consideration the salaries at peer institutions?

Miranda: No, the analysis looked only within each unit at CSU. This was an exercise that was about internal equity.

Miranda gave an update on the Colorado Open Records Act (CORA) requests from the Coloradoan. We are all state employees; therefore our salaries are public. You can go online to obtain some salary information. CSU has been asked by the Coloradoan to provide them with a spreadsheet of all of our names, gender (protected field in OEO data base), salaries, etc. CSU provides employee numbers, titles, and salaries in online format that anyone can access. For names, a hard copy is available in the Library. State Senator John Kefalas is considering a change to CORA that would require the release of names in an electronic document.

A Faculty Council member asked if our database could include the hiring date, so that it would be easier for others to understand salary trends over time in a given department.

Miranda: We offer data since terminal degree but not date of hire.

Miranda added that faculty requested the salary equity exercise and that brought the topic to the attention of the Coloradoan this past year.

Should there be a centralized database? Is HR the most accurate database?

Miranda: Yes, but it doesn't list papers and awards received for each faculty.

Stephen Hayne (Business): How can you measure performance using the database?

Miranda: We don't measure performance from the database. We use Annual Reviews every year, and for P & T we use the CV's, etc, that are put in the packet. It takes more time, but is much more appropriate.

Cini Brown (VSPN): Any patterns that were revealed in this salary exercise?

Dan Bush (Vice Provost for Faculty Affairs): The simple answer is that the analysis found no patterns yet.

Diana Prieto (Director, OEO): As a part of affirmative action, we collect gender and race. These are highly protected, confidential data. When we report it, we only do so in an aggregate manner.

Elizabeth Williams (Liberal Arts): What are other institutions in Colorado doing? Is CSU standing alone?

6

Page 4
Faculty Council Meeting Minutes
December 1, 2015

Miranda: CU does give salary information similarly but not identically to what we do. However, it's not done uniformly across the state.

Miranda's report was received.

2. Faculty Council Chair – Mary Stromberger

Stromberger reported on the following:

- 1. President's Cabinet meeting: two policies are being developed for compliance reasons:
 - a. Research data accessibility data collected through federal grants
 - b. Making web information accessible for those with disabilities (e.g. course materials). This is to meet ADA policies.
- 2. Open Records Act: Expand the Open Records act to include electronic information. Do FC members want Stromberger to continue to advocate to protect that information and keep it private? Should FC take a formal position? If so, please send Stromberger an email re: how to pursue it further. Stromberger wants to accurately represent Faculty.
- 3. Diversity-related issues University of Missouri. It is a nation-wide issue. It is affecting faculty. For example, two faculty at U of M resigned as a part of the situation. A Kansas University faculty member was placed on academic leave re: racism discussion with graduate students; the conversation did not go well. Talking about issues of race and diversity are extremely sensitive. There is also an issue of academic freedom; yet how do we learn to talk about these issues as well? Three lessons learned at KU: a) perception by a faculty person on that campus that racism does not exist if not seen or heard; b) perception by that faculty that performance gaps among diverse students are due to poor academic performance only; and c) students feel there is a lack of training to assist them with creating an inclusive learning environment.

Stromberger is meeting with faculty to discuss how to make CSU a more inclusive environment. On November 16th there was student rally in support of the students at University of Missouri. The students at CSU, did not demand, but offered six recommendations. President Frank is looking at them now. One recommendation is to change curriculum that would require every student take a diversity course, and that courses offered under the Global and Cultural Awareness category of AUCC be more diversity focused. There is a need to do more for our diverse students and to create more inclusive environments. If there are resources you need, please let Stromberger know.

Page 5
Faculty Council Meeting Minutes
December 1, 2015

Maria Fernandez-Giminez (Natural Resources): The Faculty Institute for Inclusive Excellence is where faculty can learn how to have these conversations in their classes.

Stromberger's report was received.

3. Board of Governors Faculty Representative – Paul Doherty, Jr.

No report was given as BOG will not meet until next week, December 10-11, 2015. The agenda is not out yet. Topics that Doherty anticipates being discussed: open record requests by the Coloradoan and the budget, including impacts of cuts to higher education due to the Tabor cap being reached.

Doherty's report was received.

CONSENT AGENDA

1. UCC Minutes – October 23 and 30, 2015

Carole Makela, Chair, University Curriculum Committee, moved that Faculty Council approve the October 23 and October 30, 2015 UCC Minutes.

The consent agenda was unanimously approved.

ACTION ITEMS

1. New CIOSU – Global Diversity Center, housed within the School of Global Environmental Sustainability – CUP

Eric Prince, Chair, Committee on University Programs, moved that Faculty Council approve the Global Diversity Center as an official Center.

Julie Savage-Fisher (Natural Resources): Are there going to be courses offered through the Center?

Stromberger called on Cini Brown (Agricultural Sciences, BSPM): Courses being taught are not one of the main foci. The Center will work with faculty and departments in collaboration. Courses will be be offered through departments.

Eric Prince (Chair, CUP): The goals are very much about advancing scholarship and research.

The motion was unanimously approved by FC.



Page 6
Faculty Council Meeting Minutes
December 1, 2015

2. Proposed revisions to Sections C.2.1.4 Electorate for Faculty Council and Election Procedures and C.2.4.2.1.m Department Codes of the *Academic Faculty and Administrative Professional Manual* – CoFG

Don Estep, Chair of Committee on Faculty Governance, moved that FC approve the proposed revisions to Sections C.2.1.4 Electorate for Faculty Council and Election Procedures and C.2.4.2.1.m Department Codes of the *Academic Faculty and Administrative Professional Manual* as follows:

Additions are underlined, and deletions are indicated by strikeouts.

C.2.1.4 Electorate for Faculty Council and Election Procedures (last revised May 2, 2007)

The electorate eligible to vote for Faculty Council representatives from departments, colleges, and the Libraries shall consist of all regular full-time, regular part-time, senior teaching, special, and transitional members of the faculty. The Committee on Faculty Governance shall be responsible for annually apportioning the college representatives. The Committee on Faculty Governance shall establish uniform election and replacement practices throughout the University and shall supervise elections in departments, colleges, and the Libraries to ensure a secret ballot and impartial electoral procedures. Departmental and the Libraries representatives normally shall be elected in the first (1st) week of April. However, when departments are merged or when a new department comes into operation, it shall on or after the effective date of its establishment elect its departmental representative to serve immediately on the Faculty Council. Also, as soon as a department is abolished, its departmental representative shall no longer serve on the Faculty Council. The college representatives shall be elected in the third (3rd) week of April. The terms of office for elected representatives to the Faculty Council shall be three (3) years beginning July 1, with the terms of approximately one-third (1/3) of the entire body of elected representatives expiring each year. The Committee on Faculty Governance shall determine the length of terms of departmental and college representatives to ensure equity among colleges.

C.2.4.2.1 Departmental Codes (last revised June 21, 2011)

The departmental code shall provide for the following:

- a. Designation of the title of its administrative officer.
- b. Any administrative organization within the department if desired.³
- c. Statement of the departmental mission.

Page 7
Faculty Council Meeting Minutes
December 1, 2015

- d. Procedures relating to the review of candidates for new or vacated faculty member positions.
- e. Procedures relating to the review of recommendations for faculty members for acquiring tenure, for promotion in rank, and for reappointment.
- f. Procedures for appointing faculty members to graduate student advisory committees.
- g. Procedures for conducting annual and periodic comprehensive reviews of the performance of departmental faculty members as prescribed in Section E.14.
- h. Procedures relating to self evaluation of departmental operations.
- i. Procedures by which students may appeal academic decisions of their instructors. These procedures shall comply with the guidelines approved by Faculty Council (see Section I.7).
- j. A minimum of one (1) departmental faculty member meeting each semester of the academic year, with written notice given in advance by the department head.
- k. A periodic review of the departmental code as specified in Section C.2.4.2.2.e.
- 1. Procedures for amending the code. These procedures shall require approval of a two-thirds (2/3) majority of the eligible faculty members of the department (as defined in Sections C.2.4.2) to amend the department code.
- m. A clear specification of the voting rights of all members of the department who are not faculty members with regular full-time, regular part-time, or transitional appointments not otherwise specified in the Manual.

Rationale:

Faculty Council comprises the faculty partner in the shared governance of the University and is the chief organization charged with representing faculty in interactions with the Administration. In this capacity, Faculty Council represents all faculty, including both tenure track and non-tenure track faculty. In particular, it oversees policies that both fundamentally involve the activities of non-tenure track faculty and heavily impact non-tenure track faculty. The right to vote for one's representative is the cornerstone of a representative system. It is appropriate that non-tenure track faculty be afforded the opportunity to vote for the faculty members of Faculty Council that represent their organization.

Note: This motion has been approved by the CoNTTF.

Discussion:

Doherty (Natural Resources): Does this include NTTF with joint administrative (AP) appointments?

Page 8
Faculty Council Meeting Minutes
December 1, 2015

Don Estep (CoFG): I don't know. I could go and look if that is an issue.

Ray Hogler (Business): Is this about voting rights? There are all kinds of appointments at this university. Senior teaching faculty don't seem to cover NTT faculty.

Don Estep (CoFG): The intention is not to include temporary instructors hired on a semester basis.

Ray Hogler (Business): What about those faculty who are hired for one year?

Don Estep (CoFG): We are aware of these issues. The committee felt the main issue is around "who is allowed to vote." Departments are required to specify in their code re: voting rights. They could assign this voting right to all faculty. This motion will ensure that senior and special appointment faculty are given right to vote. All other appointments' voting privileges are determined at the department level.

Jen Aberle (Chair, NTTF) provided further clarification that the motion applied only to special teaching and special appointment NTTF, and not temporary NTTF faculty.

Stromberger: Any more discussion? No.

The motion was approved by majority vote, pending final approval by the Board of Governors.

3. Proposed revisions to the Graduate and Professional Bulletin – SCHOLASTIC STANDARDS – CoSRGE

Bill Sanford, Vice Chair of CoSRGE, moved that FC approve the proposed revisions to the *Graduate and Professional Bulletin* – Scholastic Standards as follows:

Additions are underlined, and deletions are indicated by strikeouts.

Scholastic Standards

Grades of C or higher must be earned in all required courses on a Program of Study. D grades may be accepted in background courses, but such courses must be included in the computation of the cumulative grade point average. (1) <u>Graduate students may take such100 and 200 level courses for general enlightenment or to satisfy a background requirement. These courses are not to be included in the student's program of study, and grades earned in such courses will not be considered in computing the graduate grade point averages described above. (2)Once admitted to a graduate program, grades earned in courses 300 level and above will be considered in computing the graduate GPA.

Standards and requirements for off-campus graduate study are the same as those</u>

Page 9
Faculty Council Meeting Minutes
December 1, 2015

standards and requirements on campus. The academic department head has the basic responsibility for the implementation of this policy. (3)Note that only courses with a grade of B or better may be accepted as transfer courses and such courses are not included in the student's calculation of grade point averages.

Course numbering at Colorado State is based on the content level of material presented in a course.

(4) Course Number Range	Title
100-299	Courses primarily for freshman and sophomore students.
300-499	Courses primarily for junior and senior students. Acceptable for graduate credit for students holding bachelor's degrees when approved by the student's graduate committee.
500-599	Courses primarily for students enrolled in master's degree programs or equivalents. Qualified junior and senior students may enroll.
600-699	Courses primarily for students enrolled in master's level programs or equivalents. Undergraduate students may not enroll to satisfy undergraduate degree requirements.
700-799	Courses primarily for students enrolled in Ph.D. level programs or equivalents and professional veterinary medicine courses. Undergraduate students may not enroll unless they also have been admitted to graduate (Integrated Degree Program (IDP) admits).

(1)Graduate credit is not granted for completion of courses numbered at the 100 and 200 level. Graduate students may take such courses for general enlightenment or to satisfy a background requirement. Grades earned in such courses will not be considered in computing the graduate grade point averages described above.

For thesis, dissertation, research, and independent study graduate courses, the number of student credit hours earned will be determined using a base rate of 48 hours of student effort per credit hour. The faculty advisor, or other department official, shall estimate the total number of hours of student effort required over the length of the semester. This effort shall include consultation with the advisor, as well as library, laboratory, field, or

Page 10 Faculty Council Meeting Minutes December 1, 2015

studio work. The total number of hours shall be divided by 48 and the resultant quotient (rounded off to a whole number) shall define the number of credits to be awarded.

Rationale:

- (1) Rationale for deletions in section starting with "Graduate credit is not granted..." The paragraph is not being removed from the policy, however, it was revised and moved up one paragraph to keep the content consistent. In addition, the revised wording is to emphasize that 100 and 200 level courses are not to be in the program of study (not listed in GS6 form), period. This new language makes this point clear.
- (2) & (3) Content that provides written information regarding GPA calculations previously not provided in the Bulletin.
- (4) The table in the Course Number Range section was removed. Now that the Bulletin is incorporated into the Catalog, this table is redundant with the table already in the Catalog.

Discussion:

Antonio Pedros-Gascon (Languages, Literatures and Cultures): Could we have more information about the 300-level courses? Are 300-level courses allowed?

Bill Sanford (Natural Resources): At the University level, they are allowed. They have to be put on the GS-6.

Carole Makela (UCC): The Graduate School has the maximum number of credits at 300-400 level classes. However, some graduate programs indicate all courses must be 500 level or above. Programs vary considerably.

The motion was approved by majority vote.

DISCUSSION

1. FY17 budget

-Rick Miranda, Provost/Executive Vice

(See Miranda's slides – website).

Miranda presented Draft 2.2 of the incremental change to the E&G budget. Incremental = only looking at changes to the budget from this year to next year.

Miranda gave a brief summary of CSU's total budget, which is about \$1 billion. About a third of this is research revenue and expenses. Another \$150 million is in auxiliary

Page 11 Faculty Council Meeting Minutes December 1, 2015

enterprises, including Housing and Dining. Another \$100 million is in the miscellaneous category, which includes debts. This leaves about \$400 million in the Education and General (E&G) budget.

Miranda explained that the state might cut CSU's E&G budget next year. The Tabor law, which caps revenue in the State of Colorado. Fees have been added to the state budget but is used for a specific expense (e.g. hospital provider fees), and these fees are included in Tabor revenue. The Tabor cap is allowed to grow each year by a certain percent, but it is not growing at the rate of revenue increases. The governor is predicting that the Tabor cap will be reached next year, which means the general budget will be cut. The governor is proposing a \$20 million cut to higher education, which will be about a \$4 million cut to CSU.

Miranda explained the anticipated new revenues (\$19 million, after the \$4 million cut) and new expenses for FY17. CSU feels pressure to keep education affordable. Last year, there was a cap. We raised tuition a little less than 6% last year. We are trying to hold tuition down to about 5% range. Will the state force us to cap tuition? They may depending on state appropriations. This has not been determined yet. CSU is modeling around a 5% increase in tuition; even though we will experience a cut from the state. We could also enjoy more revenue with more student enrollment. We budget for flat enrollment; if we have more students, it goes in the budget for the next year.

The State has predicted no raise in FY17 for State Classified employees. What about AP and Faculty? Usually we take our cue from the state – so the same average raise is maintained across the state. However, because we are no longer in a recession, it doesn't make sense for faculty and AP's to not receive a raise next year. Right now Miranda is modeling a 1.8% salary increase for faculty and AP's. Miranda proposes to delay the last of the 1% increase to DCP, originally scheduled for FY17, for another year, to save on expenses. Miranda discussed other expenses, including the distribution of tuition from enrollment growth to colleges (1/2), the general fund (1/3), and the Provost's Office (1/6). Miranda would also like the budget to include an increase to the raise that faculty get when promoted and tenured to the Associate level, from 5% to 10%. For new commitments and quality enhancements, about \$2.5 million have already been promised, mainly for salaries of new hires as well as \$1 million for a new cluster hire. In order to balance the budget, there needs to be a 2% reallocation within all academic units and divisions. These are discussion points on the table at the BOG meeting next week.

Stromberger: Where is the base for salary increases coming from, as a result of the salary equity exercise?

Miranda: It would come out of the Commitments line item.

Paul Doherty (Natural Resources) asked is it possible to delay the next round of cluster hires, and use the funds for something else.

Page 12
Faculty Council Meeting Minutes
December 1, 2015

Stromberger: What is best for faculty and our university? Alan Rudolph, Vice President for Research, reported at a Cabinet meeting that CSU is at research capacity with the current faculty. To increase research capacity, we need to add more tenure-track faculty. What is best for the University – add more tenure-track faculty or invest more into the salary raise to help retain our current faculty?

Miranda: Hopefully we do both. These types of questions have tensions between them. The discussion is--where should the balance be?

Stephen Hayne (Business): Have you looked at compression that is taking place as you phase in the 10% for associate professors?

Miranda: The 10% raise will cause some compression, particularly for newly promoted Associate Professors (who got the 5% raise). This will cause inequities that will need to be addressed. Miranda is committed to doing so.

Stromberger: Should a 1.8% salary increase be called a merit increase? It really is an increase due to inflation. Will CSU ever get to a point where employees have a true merit raise?

Miranda: I would like CSU to get there.

Ray Hogler (Business): Are there plans to keep down the number of NTTF as their increase in numbers is quite high?

Miranda: The increase in NTTF has come in the last five year. Miranda does not predict we will be growing the NTTF at the same rate as the last five years. Miranda is committed to hiring regular faculty.

Margarita Lenk (Business): It is nice to have this budget presented to the faculty before the BOG meeting.

Stromberger adjourned the meeting 5:54 p.m.

Mary Stromberger, Chair Stephanie Clemons, Vice Chair Rita Knoll, Executive Assistant Page 13 Faculty Council Meeting Minutes December 1, 2015

ATTENDANCE BOLD INDICATES PRESENT AT MEETING UNDERLINE INDICATES ABSENT AT MEETING

Agricultural Sciences		
Gregory Perry	Agricultural and Resource Economics	2016
Stephen Coleman	Animal Sciences	2018
Scott Nissen	Bioagricultural Sciences & Pest Management	2018
Bradley Goetz	Horticulture & Landscape Architecture	2016
Francesca Cotrufo	Soil and Crop Sciences	2017
Milt Thomas	College-at-Large	2016
Jason Ahola	College-at-Large	2017
Health and Human Sciences		
Stephanie Clemons	Design and Merchandising	2016
Tracy Nelson	Health and Exercise Science	2016
David Sampson	Food Science and Human Nutrition	2016
Allison Bielak	Human Development and Family Studies	2018
(Substituting for Lisa Daunhauer - Sa	bbatical)	
Scott Glick	Construction Management	2017
Barb Hooper	Occupational Therapy	2017
Tom Chermak	School of Education	2018
Jennifer Portz	School of Social Work	2016
(Eunhee Choi substituting Fall 2015))	
Business		
Margarita Lenk	Accounting	2016
Stephen Hayne	Computer Information Systems	2018
Patricia Ryan	Finance and Real Estate	2016
Ray Hogler	Management	2018
(Substituting for Troy Mumford Fall 2		
Tuba Ustuner	Marketing	2018
Engineering		
Russ Schumacher	Atmospheric Science	2018
Travis Bailey	Chemical and Biological Engineering	2016
(Qiang (David) Wang substitute for T	• *	
Rebecca Atadero	Civil and Environmental Engineering	2018
Steve Reising (Excused)	Electrical and Computer Engineering	2016
Azer Yalin	Mechanical Engineering	2017
J. Rockey Luo	College-at-Large	2016
Jose Chavez	College-at-Large	2016
Ted Watson	College-at-Large	2018



Page 14 Faculty Council Meeting Minutes December 1, 2015

Liberal Arts		
Michael Pante	Anthropology	2017
Eleanor Moseman	Art	2017
Elizabeth Williams	Communication Studies	2016
Robert Keller	Economics	2016
(David Mushinski substitute for Rober	t Keller)	
Toby Jacobi	English	2018
Sue Doe (starts January 2016)	<i>5</i>	
Ernesto Sagas	Ethnic Studies	2017
Antonio Pedros-Gascon	Languages, Literatures and Cultures	2018
Adrian Howkins	History	2017
Jangyul Kim	Journalism and Technical Communication	2017
Gary Moody	Music, Theater, and Dance	2016
TBD	Philosophy	2018
Kyle Saunders	Political Science	2018
Ken Berry	Sociology	2016
Eric Aoki	College-at-Large	2016
Mohammed Hirchi	College-at-Large	2017
Zach Hutchins (starts Jan. '16)	College-at-Large	2016
TBD	College-at-Large	2018
TBD	College-at-Large	2018
Natural Resources		
Monique Rocca	Ecosystem Science and Sustainability	2017
Julie Savidge	Fish, Wildlife, & Conservation Biology	2016
(thru Spring 2016)		
Maria Fernandez-Gimenez	Forest and Rangeland Stewardship	2017
William Sanford	Geosciences	2017
Stuart Cottrell	HDNR in Warner College	2017
Natural Sciences	D. 1. 1. 1. 1. D. 1.	2016
Tom Santangelo	Biochemistry and Molecular Biology	2016
Melinda Smith	Biology	2018
George Barisas	Chemistry	2017
Ross McConnell	Computer Science	2016
Iuliana Oprea	Mathematics	2017
Mingzhong Wu	Physics	2017
Zinta Byrne	Psychology	2016
Mary Meyer	Statistics	2016
Ed DeLosh	College-at-Large	2017
Christos Papadopoulos	College-at-Large	2016
Janice Moore	College-at-Large	2018
Brad Conner	College-at-Large	2018
Alan Van Orden	College-at-Large	2018

Page 15 Faculty Council Meeting Minutes December 1, 2015

Veterinary Medicine & Biomedical S	ciences	
Elaine Carnevale	Biomedical Sciences	2016
Howard Seim	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
Pete Hellyer	College-at-Large	2016
David Gilkey	College-at-Large	2016
E.J. Ehrhart	College-at-Large	2016
DN Rao Veeramachaneni	College-at-Large	2016
Patrick McCue	College-at-Large	2018
Stuart Tobet	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 Donavan, 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
Don Samelson, 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	1
Robin Brown	Vice President for Enrollment and Access	
Dan Bush	Vice Provost for Faculty Affairs	
Patrick Burns	Vice President for Information Technology/Dean L	ıbraries



Page 16

Faculty Council Meeting Minutes December 1, 2015

Ex-Officio Non-Voting Members Cont'd

Vice Provost for International Affairs Jim Cooney 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 Vice President for University Operations Amy Parsons Dean, College of Agricultural Sciences Ajay Menon 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

19

BALLOT March 1, 2016 Graduate Student Positions on Faculty Council Standing Committees (One-Year Term)

University Curriculum Committee

Term Expires

ALISTAIR COOK

Graduate Student

2016

Committee on Teaching and Learning

LINDSAY LAMMERS

Graduate Student

2017



Annual Report of the University Grievance Officer for 2015

During calendar year 2015, Kirk Hallahan was the UGO from January 1 to June 30, and Richard Eykholt was the UGO from July 1 to December 31. One duty of the UGO is to oversee the disciplinary process for tenured faculty, as described in Section E.15 of the Manual. During calendar year 2105, this process was never initiated.

Another duty of the UGO is to manage the grievance process, as described in Section K of the Manual. During calendar year 2015, the two UGO's dealt with cases from 19 faculty members and 9 administrative professionals. The distribution of the 19 faculty cases by college is as follows:

Agricultural Sciences	5
Business	2
Engineering	1
Liberal Arts	5
Natural Sciences	4
Vet. Med.& Biom. Sci.	2

The distribution of the 9 administrative professional cases is as follows:

Engineering	1
Liberal Arts	2
Natural Resources	1
Student Affairs	3
University Advancement	1
Vet. Med. & Biom. Sci.	1

Before summarizing these cases, it is important to note that, if a case is ruled not to be grievable, then it cannot be pursued through the grievance process. However, the UGO can choose to hold off on making this determination in order to have discussions with the persons involved and even to allow the case to proceed to formal mediation. However, a case cannot proceed to a formal hearing unless it is ruled to be grievable.

For the 9 cases involving administrative professionals, four cases involved termination. Three of these four cases were ruled not to be grievable, since administrative professionals are employed at-will, but the other case involved a claim of racial discrimination, so it was referred to OEO, and it was not pursued through the grievance process. One case involved a complaint about a supervisor from an employee who had already resigned, so it was ruled not to be grievable, but the person was referred to OEO for an exit interview. Four cases involved complaints about performance reviews. One of these four cases was ruled not to be grievable, since a performance improvement plan had been implemented. Two of these four cases were resolved through discussions between the UGO and the persons involved, with a new supervisor re-evaluating the

two employees. The other case was resolved through formal mediation. None of these 9 cases resulted in a formal hearing, and only one of the cases resulted in formal mediation.

For the 19 cases involving faculty members, 12 cases involved tenure-track faculty, 6 cases involved special faculty, and one case involved an affiliate faculty. The affiliate faculty member did not feel that this classification was appropriate for his involvement with CSU. This was resolved through discussions between the UGO and the persons involved. For the 6 cases involving special faculty, one case involved a performance review, one case involved a dispute over a termination date, and one case involved workload and scheduling. All three of these cases were resolved through discussions between the UGO and the persons involved. One case involved a claim of salary inequity, and it was resolved through discussions between the UGO and the persons involved, with a salary restructuring occurring within the unit. One case involved a delay in processing an application for promotion, but it was resolved without the intervention of the UGO, so it was not pursued through the grievance process. One of these cases involved a dispute over the total amount of compensation. This was due to a misunderstanding of contract language and was resolved through discussions between the UGO and the persons involved. None of the 7 cases involving non-tenure-track faculty members resulted in a formal hearing, and none of these cases involved formal mediation.

For the 12 cases involving tenure-track faculty, five cases involved complaints about performance reviews. Three of these five cases were resolved through discussions between the UGO and the persons involved. One of these five cases involved a claim of sexual harassment, so it was referred to OEO, and it was not pursued through the grievance process. For the other case, the faculty member decided not to pursue the issue through the grievance process. One case involved a complaint about the amount of an annual salary increase, and this case was resolved through formal mediation. One case involved a claim of salary inequity by a female full professor, and, after a discussion between the UGO and the Provost, it is being addressed by the current initiative addressing such salary inequities. On case involved dissatisfaction with the change in salary after a change in employment status, and the faculty member decided not to pursue the issue through the grievance process. One case involved a dispute over travel reimbursement, and this was resolved through discussions between the UGO and the persons involved. One case involved a dispute between co-PI's on a grant, and it was ruled not to be grievable, since it was a dispute between faculty members. One case involved an administrator placing restrictions on the activities of a faculty member, and this case was resolved through formal mediation. One case involved a recommendation for denial of tenure, and this case is still active. Since this case is very recent, the UGO has not yet gotten involved officially. For the 11 cases involving tenure-track faculty members that have been resolved, none resulted in a formal hearing, and two resulted in formal mediation. The one case that is still active has not yet progressed beyond the initial contact stage.

In summary, there were 28 cases, with 12 cases involving tenure-track faculty members, 7 cases involved non-tenure-track faculty members, and 9 cases involving administrative professionals. One case involving a tenure-track faculty member is still active and has not progressed beyond the initial contact stage. Six cases were ruled not to be grievable (five for administrative professionals and one for a tenure-track faculty member). Two cases were referred to OEO, rather than being pursued through the grievance process (one for a tenure-track faculty member

and one for an administrative professional). In three of the remaining cases, the person decided not to pursue the case through the grievance process (two tenure-track faculty members and one non-tenure track faculty member). Of the remaining 16 cases, none resulted in a formal hearing, three resulted in formal mediation (two for tenure-track faculty and one for an administrative professional), and the remaining 13 cases were resolved through discussions between the UGO and the persons involved.

Submitted by: Richard Eykholt,

University Grievance Officer



A regular meeting of the University Curriculum Committee was held on November 6, 2015, at 2:00 p.m.

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

Guests: Yvonne Bridgeman, Kelley Brundage, Linda Selkirk.

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

Minutes

The Minutes of October 30, 2015 were approved.

Experimental Course Report

The Experimental Course Report was received.

Consent Agenda

The Consent Agenda was approved.

New Courses Effective Date

BSPM 355C 01(1-0-0). Horticulture Pathology: Vegetable and Greenhouse Disease. F. Fall 2016

Prerequisite: BSPM 355A.

Restriction:

Registration Information: Written consent of instructor.

Diseases in greenhouse and vegetable crops, management and control.

[Approved as an online course.]

CS 165 04(3-2-0). CS2: Java – Data Structures and Algorithms. F, S. Fall 2016

Prerequisite: (CS 163 with a C or better or CS 164 with a C or better) and MATH 160 with a C or better

Restriction:

Registration Information: Must register for lecture and laboratory.

Object oriented concepts, assertions, inheritance, polymorphism, algorithms and data structures using Java.

CS 220 04(3-0-1). Discrete Structures and their Applications. F, S.

Prerequisite: CS 165 with a C or better; MATH 160 with a C or better.

Restriction:

Registration Information: Must register for lecture and recitation.

Integer representations and properties, propositions, predicates, sets, functions, program proofs, induction, counting, complexity; Python implementations of these concepts.

ERHS 534 03(3-0-0). SAS and Epidemiology Data Management. F.

Prerequisite: None.

Restriction: Graduate only.

Registration Information: Graduate standing in Environmental Health.

Basic concepts and skills necessary for data management and analyses using SAS programming in epidemiology.

Fall 2016

Fall 2016

24

University Curriculum Committee

November 6, 2015

Page 2

SPCM 382A 03(3-0-0). Bridging Cultures: USA-Italy. SS.

Summer 2016

Prerequisite: SPCM 200.

Restriction:

Registration Information:

Theory, concepts, principles, research methods, and practical skills in the areas of intercultural and cross-cultural communication, construction and negotiation of Italian identity (italianità), and strategies of an effective dialogue with a global mindset. The aim of the course is to transform its participants into culturally aware and skilled global citizens, with the empirical experience of cultural bridging.

[Approved as a Study Abroad course.]

SPCM 482A 03(3-0-0). Cinematic Rome. SS.

Prerequisite: Concurrent registration in SPCM 382.

Summer 2016

Restriction:

Registration Information: Completion of AUCC Category 2.

Evaluate and discuss ten primary films, along with excerpts from a number of others. Topics: Images of Ancient Rome; Italian Fascism and Its Memory; Italian Neorealism; Images of "Americans" in Rome, and Rome in America; Fellini's Rome; and Urban Angst, Roman Style. Analyze how Rome functions as a "character" in the movies, the artistic representations of Roman monuments and streetscapes, and the rhetorical functions of Italian cinema.

[Approved as a Study Abroad course.]

Major Change to Courses

ETST 319/ANTH 319 03(3-0-0). Latin American Peasantries. F, S.

Fall 2016

Prerequisite: ANTH 100 or ANTH 200 or ETST 100.

Restriction:

Registration Information: Credit not allowed for both ETST 319 and ANTH 319.

Sociocultural, economic, and political responses of Latin American peasantries to poverty and global processes.

New Programs

College of B	usiness	Effective Spring 2016
Department	of Marketing	
Certificate i	n Market Research and Data Analytics	
MKT 370	Digital Marketing	3
MKT 410	Marketing Research	<u>3</u>
MKT 450	Marketing Analytics	<u>3</u>

Major Change to Curricula

College of Natural Sciences Department of Physics Major in Physics Physics Concentration Effective Fall 2016

Change approved, program is being edited and will be published in later UCC minutes.



The meeting adjourned at 4:25 p.m.

(FC)

Carole Makela, Chair Yvonne Bridgeman, Secretary



A regular meeting of the University Curriculum Committee was held on November 13, 2015, at 2:00 p.m.

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

Guests: Yvonne Bridgeman, Kelley Brundage.

Absent: Graduate representative.

Minutes

The Minutes of November 6, 2015 were approved.

Experimental Course Report

The Experimental Course Report was received.

Consent Agenda

The Consent Agenda was approved.

New Courses Effective Date

E 340 03(3-0-0). Literature and Film Studies. Every year, semester varies.

Prerequisite: One literature course (E) or one AUCC 3B course.

Restriction: No Freshman. Registration Information:

Studies film adaptations of literary works with attention to narrative, style, theme, adaptation, and revision.

FIN 661 03(3-0-0). Advanced Portfolio Management. Every year, semester varies.

Prerequisite: FIN 605; FIN 655. Restriction: Graduate only.

Registration Information: Written consent of advisor.

Portfolio management, asset allocation, and asset selection theory and techniques.

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

POLS 482 03(3-0-0). Politics and Culture in Turkey. SS.

Prerequisite: POLS 241. Restriction: No Freshman.

Registration Information: Required field trips. Written consent of instructor.

Politics, history and material culture of Turkey.

[Approved as a Study Abroad course.]

Major Change to Courses

CS 370 03(3-0-0). Operating Systems. F, S.

Prerequisite: (CS $\frac{200-253}{200}$ with a minimum grade of C) and (CS 270 with a minimum grade of C or ECE 251 with a minimum grade of C) and (CS 220 with a minimum grade of C).

Restriction:

Registration Information: Sections may be offered Online.

Introduction to operating systems including memory organization, I/O control, multitasking, process control, coordination, and resource management.

JJ

Fall 2016

Spring 2017

Summer 2016

Fall 2018



Major Change to Curricula

College of Liberal Arts
Department of Art and Art History
Bachelor of Arts in Art
Studio Concentration

Effective Spring 2016

A minimum grade of C (2.000) must be achieved in each upper-division art course in the student's concentration.

Freshman **AUCC Credits** ART 105 Issues and Practices in Art 1 3 ART 110 Art History I 3 ART 111 Art History II ART 135 Introduction to Drawing 3 ART 136 Introduction to Figure Drawing 3 ART 160 Two-Dimensional Visual Fundamentals 3 ART 170 Three-Dimensional Visual Fundamentals 3 3 CO 150 College Composition (GT-CO2) 1**A** Arts and Humanities1 3B 3 Global and Cultural Awareness 3 3E Mathematics 1B 3 **Total Credits** 31 Sophomore ART 212 Art History III 3 Select two courses from the following: ART 230 Photo Image Making I 3 3 ART 235 Intermediate Drawing I 3 ART 240 Pottery I ART 245 Metalsmithing and Jewelry I 3 3 ART 250 Fibers I ART 255 Introduction to Graphic Design 3 ART 256 Introduction to Electronic Art 3 3 ART 260 Painting I 3 ART 265 Printmaking I-Intaglio and Relief 3 ART 270 Sculpture I 4A,4B 3 Upper-Division Art History² Upper-Division Art History - Select from list below 4A,4B 3 10 L*** Foreign Language 7 Biological and Physical Sciences 3A 3C 3 Social and Behavioral Sciences **Total Credits** 32 Junior 4A,4B 3 Upper division Art History² Upper-Division Art History - Select 3 credits not taken previously from the list below 4A,4B 3 Upper-Division Concentration32 8 6 Art Electives

28

University Curricu November 13, 201			
Page 3 Advanced Writing	*	2	3
Arts and Humanit		2 3B	3
Historical Perspec		3D	3
		3D	
Upper-Division G Total C			3
Total C			29
C-1+ C 1'+	Senior Senior		1
į.	s from the following in the appropriate concentration:	4.0	
	ed Photo Image Making I	4C	4
	ed Photo Image Making II	4C	4
ART 435 Advance	-	4C	4
ART 436 Advance	-	4C	4
ART 440 Pottery		3C	4
ART 441 Pottery		4C	4
1	nithing and Jewelry IV	4C	4
	nithing and Jewelry V	4C	4
ART 450 Fibers I		4C	4
ART 451 Fibers V	\checkmark	4C	4
ART 460 Advanc	ed Painting I	4C	4
ART 461 Advanc	ed Painting II	4C	4
ART 465 Printma	king IV-Studio Workshop	4C	4
ART 466 Printma	king V-Studio Workshop	4C	4
ART 470 Sculptu	re IV	4C	4
ART 471 Sculptu	re V	4C	4
Upper-Division A	rt Electives		3
Non-Art Electives			3
Upper-Division G	eneral Electives ⁴		18
Total C	redits		28
Progran	n Total Credits:		120
Upper-Div	vision Art History Courses		
	gory 4A and 4B of the All-University Core Curriculum (AUCC), at least three credits	AUCC	Credits
must be selected.			
<u>ART 310</u>	History of American Art to 1945	<u>4A,4B</u>	
<u>ART 311</u>	Art of Africa	<u>4A,4B</u>	
<u>ART 312</u>	History of Pre-Columbian Art	<u>4A,4B</u>	
<u>ART 314</u>	Women in Art History	4A,4B	
<u>ART 315</u>	United States Art 1945-1980	<u>4A,4B</u>	
ART 316	A COLUMN TO THE	4 4 175	
ART 317	Art of the Pacific	<u>4A,4B</u>	
	Art of the Pacific Native North American Art	4A,4B 4A,4B	
ART 410		<u>4A.4B</u>	
	Native North American Art Greek Art	4A.4B 4A.4B	
ART 411	Native North American Art Greek Art History of Medieval Art	4A,4B 4A,4B 4A,4B	
ART 411 ART 412	Native North American Art Greek Art History of Medieval Art History of Renaissance Art	4A,4B 4A,4B 4A,4B 4A,4B	
ART 411 ART 412 ART 414	Native North American Art Greek Art History of Medieval Art History of Renaissance Art History of Baroque and Rococo Art	4A,4B 4A,4B 4A,4B 4A,4B 4A,4B	
ART 411 ART 412 ART 414 ART 415	Native North American Art Greek Art History of Medieval Art History of Renaissance Art History of Baroque and Rococo Art History of 19th Century European Art	4A,4B 4A,4B 4A,4B 4A,4B 4A,4B	
ART 411 ART 412 ART 414 ART 415 ART 416	Native North American Art Greek Art History of Medieval Art History of Renaissance Art History of Baroque and Rococo Art History of 19th Century European Art History of European Art, 1900 to 1945	4A.4B 4A.4B 4A.4B 4A.4B 4A.4B 4A.4B 4A.4B	
ART 411 ART 412 ART 414 ART 415	Native North American Art Greek Art History of Medieval Art History of Renaissance Art History of Baroque and Rococo Art History of 19th Century European Art	4A,4B 4A,4B 4A,4B 4A,4B 4A,4B	

 $^{^1}$ Select from the list of courses in category 3B (other than $\underline{ART\ 100})$ 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 Choose eight upper-division credits in one area of concentration in addition to the four credit capstone course. Select six credits upper-division Art History. In order to complete category 4A and 4B of the AUCC, at least three credits must come from the following: ART 310 ART 311, ART 312, ART 314, ART 315, ART 316, ART 319 ART 410 ART 411, ART 212. ART 414. ART 415, ART 416, and ART 417.
- ³ Select enough elective credits to bring program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400- level). Choose eight upper-division credits in one area of concentration in addition to the four credit capstone course.
- ⁴ Select enough elective credits to bring program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400- level).



College of Liberal Arts
Department of Art and Art History
Bachelor of Fine Arts

Effective Spring 2016

In addition to the following, students must complete a concentration in this major.

Freshman

rresiman		
	AUCC	Credits
ART 105 Issues and Practices in Art		1
ART 110 Art History I		3
ART 111 Art History II		3
ART 135 Introduction to Drawing		3.
ART 136 Introduction to Figure Drawing		3
ART 160 Two-Dimensional Visual Fundamentals		3
ART 170 Three-Dimensional Visual Fundamentals		3
CO 150 College Composition (GT-CO2)	1 A	3
Arts and Humanities ¹	3B	3
Global and Cultural Awareness	3E	3
<u>Mathematics</u>	1B	3
Total Credits		31
Sophomore		
ART 212 Art History III		3
Select three courses from the following:		
ART 230 Photo Image Making I		3
ART 240 Pottery I		3
ART 245 Metalsmithing and Jewelry I		3
ART 250 Fibers I		3
ART 255 Introduction to Graphic Design		3
ART 256 Introduction to Electronic Art		3
ART 260 Painting I		3
ART 265 Printmaking I-Intaglio and Relief		3
ART 270 Sculpture I		3
ART 235 Intermediate Drawing I		3
Upper-Division Art History ²	4A,4B	3
Biological and Physical Sciences	3A	7
Historical Perspectives	3D	3
Social and Behavioral Sciences	3C	3
Total Credits		31



Junior

Concentration requir	ed course selection		8
Art Electives			4
Upper-Division Art l	History ²	4A,4B	3
Upper-Division Art l	Elective		4
Advanced Writing		2	3
Arts and Humanities		3B	3
Upper-Division Non	-Art Elective		3
Elective			3
Total Cred	lits		31
	Senior		
Concentration requir	ed course selection	4C	8
Upper-Division Art l	Elective		4
Non-art electives ³			15
Total Cred	lits		27
Program T	otal Credits:		120
Upper-Div	vision Art History Courses ²		
		AUCC	Credits
To complete catego credits must be sele	ry 4A and 4B of the All-University Core Curriculum (AUCC), at least three cted.		
<u>ART 310</u>	History of American Art to 1945	4A,4B	
<u>ART 311</u>	Art of Africa	4A.4B	
<u>ART 312</u>	History of Pre-Columbian Art	4A,4B	
<u>ART 314</u>	Women in Art History	4A,4B	
<u>ART 315</u>	United States Art 1945-1980	4A,4B	
<u>ART 316</u>	Art of the Pacific	4A,4B	
ART 319	History of Graphic Design	4A, 4B	,
ART 317	Native North American Art	<u>4A,4B</u>	
<u>ART 410</u>	Greek Art	4A,4B	
<u>ART 411</u>	History of Medieval Art	4A,4B	
<u>ART 412</u>	History of Renaissance Art	4A,4B	
<u>ART 414</u>	History of Baroque and Rococo Art	4A,4B	
<u>ART 415</u>	History of 19th Century European Art	4A,4B	
<u>ART 416</u>	History of European Art, 1900 to 1945	4A,4B	
<u>ART 417</u>	Roman Art	4A,4B	
<u>ART 418</u>	Contemporary Artists and Art Critics	<u>4A,4B</u>	

 $^{^{1}}$ Select from the list of courses (other than <u>ART 100</u>) in category 3B in the All-University Core Curriculum (AUCC). Only 3 of the 6 credits required for Arts and Humanities may come from intermediate (L*** 200 and L*** 201) foreign language courses.

³ Select 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).



² Select six credits of upper-division art history. To complete category 4A and 4B of the All-University Core Curriculum (AUCC), at least three credits must be from the Upper-Division Art History list.

College of Liberal Arts
Department of Art and Art History
Bachelor of Fine Arts
Graphic Design Concentration

Effective Spring 2016

In addition to the Art (B.F.A.) core courses, the following must be completed:

Code	Title	AUCC	Credits
JUNIOR		a 1972 od 40 SC in department of a sure of the of 1925 dates of that of the 1925 decry at large and engreenergy a law (equilibries) of the	ras eric Malandingsvel y the south yad a fact or ga enemi common entire function of common months and common months and common entire to the common entire t
ART 355	Typography and Design Systems		4
ART 356	Illustration		4
SENIOR		Programs (Chroniche and Albert and Albert Andrews), we have been all the state of the Albert Andrews and Alb	alle de la companya d
ART 455	Advanced Typography and Design Systems	4C	4
ART 456	Advanced Illustration	4C	4



College of Liberal Arts
Department of Art and Art History
Bachelor of Fine Arts
Metalsmithing Concentration

Effective Spring 2016

In addition to the Art (B.F.A.) core courses, the following must be completed:

Code	Title	AUCC C	redits
JUNIOR			
ART 345	Metalsmithing and Jewelry II		4
ART 346	Metalsmithing and Jewelry III		4
SENIOR			
ART 445	Metalsmithing and Jewelry IV	4C	4
ART 446	Metalsmithing and Jewelry V	4C	4



College of Liberal Arts
Department of Art and Art History
Bachelor of Fine Arts
Photo Image Making Concentration

Effective Spring 2016

In addition to the Art (B.F.A.) core courses, the following must be completed:

Code	Title	AUCC	Credits
JUNIOR			
ART 330	Photo Image Making II		4
ART 331	Photo Image Making III		4
SENIOR			
ART 430	Advanced Photo Image Making I	4C	4
ART 431	Advanced Photo Image Making II	00 to the control of	4





College of Liberal Arts
Department of Art and Art History
Bachelor of Fine Arts
Painting Concentration

Effective Spring 2016

In addition to the Art (B.F.A.) core courses, the following must be completed:

Code	Title	AUCC	Credits
JUNIOR			
ART 360	Painting Methods and Materials		4
ART 361	Figure Painting		4
SENIOR			
ART 460	Advanced Painting I	4C	4
ART 461	Advanced Painting II	4C	4



College of Liberal Arts
Department of Art and Art History
Bachelor of Fine Arts
Pottery Concentration

Effective Spring 2016

In addition to the Art (B.F.A.) core courses, the following must be completed:

Code	Title	AUCC	Credits
JUNIOR			
ART 340	Pottery II		4
ART 341	Pottery III		4
SENIOR			
ART-435	Advanced Drawing I	4€	
ART 436	Advanced Drawing II	architectoris Sumitant tribut tritoris et i ularicorrusquaes de tritoriado con lisual tradicional de alcularido de la coloridad de la colorida	4
ART 440	Pottery IV	eren mana suprisus o tago supremo con como como mana managago un uma unió a risilia de albahada (a quantifica Contesión franços (micros) de monte. 4 C. **Contesión de Contesión franços (micros) de monte. **Transporter de Contesi	n yuunuunteeremeen mana leh in inmidiisii inmidiisii siine ili siine ili siine ili siine ili siine ili siine i 4
ART 441	Pottery V	en e	4



College of Liberal Arts
Department of Art and Art History
Bachelor of Fine Arts
Printmaking Concentration

Effective Spring 2016

In addition to the Art (B.F.A.) core courses, the following must be completed:

Code	Title	AUCC	Credits
JUNIOR			
ART 365	Printmaking II-Lithography		4
ART 366	Printmaking III-Studio Workshop		4
SENIOR			
ART 465	Printmaking IV-Studio Workshop	4C	4
ART 466	Printmaking V-Studio Workshop	4C	4





College of Liberal Arts
Department of Art and Art History
Bachelor of Fine Arts
Sculpture Concentration

Effective Spring 2016

Effective Spring 2016

3

In addition to the Art (B.F.A.) core courses, the following must be completed:

Code	Title	nece c	redits
JUNIOR			
ART 370	Sculpture II		4
ART 371	Sculpture III		4
SENIOR			
ART 470	Sculpture IV	4C	4
ART 471	Sculpture V	4C	4



College of Liberal Arts LEAP Institute for Arts

ACT 600

Master in Arts Leadership & Administration

Master in Arts Leadership and Cultural Management, Administration, Plan C

Accounting for Managers

FIRST YEAR			
	in agent, indirect, et anguler i sujere entre (un proposition de method appropriate de method appropriate de s		CREDITS
LEAP 500	r Tradit i Ingel i eft et i Malanda a etter 3. Film fry Man den hekende et blev e e efter bet e. Filmen	Leadership in the Arts	3 and the contract of the cont
LEAP 600	orodet i Vor (FAA) prochi tota i Routereka (prote naky); i platena ki salaki vyraka evi (oroteka	Arts Policy and Advocacy	Tri Lift in activativa se sensida citi intra derivata tunin tito conscionalmente in acciona questi in acciona con
LEAP 660		Arts Collaboration and the Community	3
LEAP 687		Internship	3
LEAP 692		Internship Seminar	1
Selected courses (se	e list below)		3
		Total Credits	16
SECOND YEAR	e consider spilat for their spilately and considered by the descriptions with final training and		teamustas taiki 17 kal jälli säilikki kalkaiki kaiki 17 janullas sää kaskumad kirji näät läätikukse jää 17 kal
LEAP 650	kanumatistasuu jäägustätäisinä äänyttävääytettijäväytettijäväytettijaväytetti vartetta vartetti	Arts Events Management	минический принцентиру принцен
LEAP 670		Law and the Arts	3
LEAP 687		Internship	3
LEAP 692		Internship Seminar	1
Selected courses (se	e list below)		ϵ
		Total Credits	16
COLOR		Program Total Credits:	32

Code	Title	Credits
BUS 690H	Contemporary Issues: Mgmt Practices	1-6
BUS 695	Independent-Study	1-18
CIS 600	Information Technology and Project Management	3
BUS 500	Business Systems and Processes	2
BUS 614	Accounting Concepts	2
BUS 615	Managerial Accounting	2
BUS 620	Leadership and Teams	2
BUS 625	Organizational Communication	2
BUS 626	Managing Human Capital	2
BUS 655	Marketing Management	2
CIS 570	Business Intelligence	
ECON 304	Intermediate Macroeconomics	<u> </u>
ECON 376	Marxist Economic Thought	The state of the s
EDOD 506	Human Resource Development	3
EDOD 672	Change Facilitation	3
EDOD 673	Plan and Implement Change Interventions	3
EDOD 675	Design, Develop, Implement Workplace Learning	3
EDOD 678	Assess Change Interventions	gi uzerniar eterangu i Cepilati perist entet peritikangan
EDRM 600	Introduction to Research Methods	3
EDRM 702	Foundations of Educational Research	3
EDUC 619	Curriculum Development	3
EDUC 651	Multicultural and Special Populations	3
EDUC 670	Grant Writing	3
FIN 600	Financial Management-Theory and Case Studies	3
<u>FTST 503</u>	Contemporary Ethnic Studies Issues	3.
FIN 601	Financial Management and Markets	3
HDFS 609	Prevention Program Evaluation	3
<u>JTC 550</u>	Public Relations	3
JTC 650	Strategic Communications	3
LEAP 310	Creating and Managing a Career in the Arts	3
<u>MGT 340</u>	Fundamentals of Entrepreneurship	3
MGT 360	Social and Sustainable Venturing	<u>3</u>
MGT 420	New Venture Creation	3
MGT 440	New Venture Management	3
MGT-620	Management	3
MGT 679	Principles of Strategic Management	3
мкт 479	Marketing Strategy and Management	3

Code	Title	Credits
MKT 600	Marketing Management and Strategy	3
MKT 621	Search Engine Marketing and Optimization	1
<u>MKT 667</u>	Services Marketing Management	1
PHIL 318	Aesthetics-Visual Arts	3
PHIL 348	Philosophy of Literature and the Arts	3
POLS 351	Public Administration	<u>3</u>
POLS 460	Public Policy Process	<u>3</u>
POLS 465	Public Policy Analysis	<u>3</u>
POLS 550	Advanced Public Administration	3
POLS 652	Public Organization Theory	<u>3</u>
POLS 665	Public Policy Analysis	<u>3</u>
SOC 302	Contemporary Sociological Theory	<u>3</u>
<u>SOC 540</u>	Community Sociology	<u>3</u>
<u>SPCM 632</u>	Theories of Interpersonal Communication	3
<u>SPCM 633</u>	Discourse, Work, and Organization	3
SPCM 634	Communication and Cultural Diversity	3
<u>SPCM 639</u>	Communication Theory	3
<u>SPCM 647</u>	Media Industries	<u>3</u>
SPCM 650	Contemporary Issues in Media	3



The meeting adjourned at 4:30 p.m.

(FC) 11/20/15 Carole Makela, Chair Yvonne Bridgeman, Secretary



A regular meeting of the University Curriculum Committee was held on November 20, 2015, at 2:00 p.m.

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

Guests: Yvonne Bridgeman, Kelley Brundage, Linda Selkirk.

Absent: Mike Hogan, Undergraduate representative Tyler Siri, Graduate representative.

Minutes

The Minutes of November 13, 2015 were approved.

Experimental Course Report

The Experimental Course Report was received.

Consent Agenda

The Consent Agenda was approved.

New Courses Effective Date

CON 502 03(2-0-1). Research in Construction Management I. F.

Fall 2016

Prerequisite: None.

Restriction: No Freshman, No Sophomore, No Junior.

Registration Information: Must register for lecture and recitation. Credit not allowed for both

CON 502 and CON 562.

Research, discuss, and present current issues and trends in the construction industry related to business, management, engineering, and technology.

CON 503 03(3-0-0). Research in Construction Management II. S.

Spring 2017

Prerequisite: CON 502.

Restriction: No Freshman, No Sophomore, No Junior.

Registration Information: Credit not allowed for both CON 503 and CON 500.

Models and methods of disciplined inquiry used in diverse application-based organizations. Preparation to use disciplined inquiry methods to solve applied problems in construction management or related fields. Topics include problem/topic selection, writing research questions and objectives, literature reviews, selection of research methods, data collection and analysis, and conclusions and implications.

CON 511 03(2-0-1). Project Procurement and Preconstruction. F.

Fall 2016

Prerequisite: CON 461.

Restriction:

Registration Information: Must register for lecture and recitation. Credit now allowed for both CON 511 and CON 566. Required field trips.

Advanced project procurement procedures with a focus on early design phase planning applications and preconstruction management techniques.

CON 512 03(2-0-1). Post-Award Construction Management. S.

Spring 2017

Prerequisite: CON 461.

Restriction:

Registration Information: Must register for lecture and recitation. Credit not allowed for both CON 512 and CON 560.

Advanced topics related to post-award construction management issues with a focus on multiple project controls and project risk management.

CON 521 03(2-0-1). Sustainable Building & Infrastructure Systems. S.

Spring 2017

Prerequisite: None.

Restrictions: Graduate only.

Registration Information: Must register for lecture and recitation. Credit not allowed for both

CON 521 and CON 576.

Issues and state-of-the-art resources needed to construct, remodel/retrofit, operate and maintain the built environment (buildings and infrastructure). Specifically, resources will include major materials, components and technologies, as well as energy and water resources needed in the different life-cycle phases of the building or infrastructure project.

HDFS 410 03(3-0-0). Socioemotional Development in Childhood. F, S, SS.

Fall 2016

Prerequisite: HDFS 310.

Restriction: Completion of 60 credits.

Registration information: Credit not allowed for both HDFS 410 and HDFS 351 or HDFS 401.

Sections may be offered: Online.

Socioemotional development in children and the influence of biology and socialization within diverse family, school and cultural contexts. Evidence-based practices for helping professionals who will serve children ages 3-8.

HDFS 411 03(3-0-0). Developmental Transitions in Adolescence. F, S, SS.

Fall 2016

Prerequisite: HDFS 311.

Restriction: Completion of 60 credits.

Registration Information: Sections may be offered: Online.

Examination of biological, socio-emotional, cognitive, and behavioral changes during adolescence.

HDFS 412 03(3-0-0). Mental and Physical Health in Adulthood. F, S, SS.

Fall 2016

Prerequisite: HDFS 312.

Restriction: Completion of 60 credits.

Registration Information: Sections may be offered: Online.

Mental and physical health of adults, contextual factors of development, and implications for prevention, intervention, and public health planning.

HDFS 475 03(3-0-0). Entrepreneurs and Leaders in Human Services. F, S, SS.

Fall 2016

Prerequisite: HDFS 375.

Restriction: Completion of 60 credits.

Registration Information: Sections may be offered: Online.

Skills and knowledge about leadership and entrepreneurship in areas pertinent to human development and family studies, as human services, non-profits, and other enterprises related to helping individuals, couples, and families.

WS 270 03(3-0-0). Feminist Theory. F, S, SS.

Fall 2016

Prerequisite: None.

Restriction:

Registration Information:

Contemporary feminist theories from multiple perspectives, including topics such as gender, race, sexuality, and oppression.

Major Change to Courses

ANTH 444 043(3-20-0). Cultures of Virtual Worlds—Research Methods. F, Even years.

Fall 2016

Prerequisite: ANTH 100 or ANTH 200. Restriction: No Freshman, No Sophomore.

Registration Information: Must register for lecture and laboratory. Junior standing.

Methodologies and directed research related to virtual worlds and internet and gaming

communities.



ANTH 643 043(3-20-0). Advanced Ethnographic Field Methods. S, Odd years.

Spring 2017

Prerequisite: None.

Restriction: Graduate only.

Registration Information: Must register for lecture and laboratory. Graduate standing.

Mixed qualitative and quantitative Development of applied field methods to address practical real-world problems, and research questions for graduate-level ethnographic field research Applied, public, collaborative, participatory, and community-based ethnographic research.

ATS 601 023(23-0-0). Atmospheric Dynamics I. F.

Fall 2016

Prerequisite: MATH 261; MATH 530.

Restriction: Graduate only, Professional only.

Registration Information:

Equations of motion; earth's rotation; balanced motion; vorticity and Rossby waves; shallow water models; potential vorticity. Momentum, continuity equations; circulation, vorticity, thermodynamics; boundary layer; synoptic scale motions in midlatitudes.

ATS 620 023(23-0-0). Thermodynamics and Cloud Physics. F.

Fall 2016

Prerequisite: MATH 340; PH 142.

Restriction: Graduate only, Professional only.

Registration Information:

Equilibrium thermodynamics, cloud microphysics, cloud dynamics, precipitation formation, and cloud electrification.

ATS 640 023(12-2-0). Synoptic Meteorology. F.

Fall 2016

Prerequisite: ATS 601 or concurrent registration. Restriction: Graduate only, Professional only.

Registration Information: Must register for lecture and laboratory.

Synoptic-scale weather systems; thermodynamic diagrams; moist and dry atmospheric variables; static stability; vertical motion; fronts; cyclones and anticyclones.

ESS 542 024(24-0-0). Greenhouse Gas Policies. S.

Fall 2016

Prerequisite: <u>ESS 524.</u> Restriction: <u>Graduate only.</u>

Registration Information: Sections may be offered: Online.

Rules, regulations and standards for greenhouse gas management and accounting.

HDFSAHS 201 03(3-0-0). Perspectives in Gerontology. F, S.

Fall 2016

Prerequisite: HDFS 101 or PSY 100 or SOC 100.

Restriction:

Registration Information: Sections may be offered: Online.

<u>Multidisciplinary</u> <u>Using multidisciplinary</u> perspectives <u>on to explore</u> a variety of issues in human aging; <u>exploration of careers in gerontology; service-learning with older adults;</u> emphasis on applied gerontology.

PSY 441 01(0-2-0). Industrial Psychology Laboratory. F, S, SS.

Summer 2016

Prerequisite: PSY 250; (STAT 301 or STAT 311)

Restriction:

Registration Information: <u>Must have concurrent registration in PSY 440</u>. Sections maybe offered: Online.

Hands-on experience with concepts such as job analysis, performance appraisals, interviews, and training, designed to supplement information provided in PSY 440. Laboratory and field experiences in job analysis, selection strategies, performance appraisal, and criterion development.

39

University Curriculum Committee November 20, 2015 Page 4

The meeting adjourned at 3:35 p.m.

(D)

Carole Makela, Chair Yvonne Bridgeman, Secretary



REVISED January 15, 2016

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

Members present: Chair Carole Makela, Professors Bradley Goetz, Paul Mallette, Brad Reisfeld, Mike Hogan, Ed DeLosh, Sally Sutton, Howard Ramsdell, Beth Oehlerts, Undergraduate representative Tyler Siri.

Guests: Yvonne Bridgeman, Andrea Russo, Linda Selkirk.

Absent: Graduate representative, Vice Provost for Undergraduate Affairs.

Minutes

The Minutes of November 20, 2015 were approved.

Experimental Course Report

The Experimental Course Report was received.

Consent Agenda

The Consent Agenda was approved.

New Courses Effective Date

CHEM 105 01(1-0-0). Problem Solving in General Chemistry. F. S.

Fall 2016

Prerequisite: MATH 118 or MATH 141 or MATH 155 or MATH 160 or MATH 161 or MATH 229 or MATH 261.

Restriction:

Registration information:

Foundational problem-solving skills in general chemistry to support students for success in general chemistry courses.

CHEM 651E Var.[1-4]. Special Topics in Chemistry: Materials Chemistry. Every year, as Fall 2016

needed.

Prerequisite: None.

Restriction: Graduate only.

Registration Information: Written consent of instructor.
Discussion of current topics in materials chemistry.

CHEM 651F Var.[1-4]. Special Topics in Chemistry: Chemical Biology. Every year, as Fall 2016

needed.

Prerequisite: None.

Restriction: Graduate only.

Registration Information: Written consent of instructor. Discussion of current topics in chemical biology.

CHEM 651G Var.[1-4]. Special Topics in Chemistry: Chemistry Education. Every year, as Fall 2016

needed.

Prerequisite: None.

Restriction: Graduate only.

Registration Information: Written consent of instructor.
Discussion of current topics in chemistry education.

E 382A 03(1-0-2). Study Abroad: Reading and Writing the Zambia Experience. SS.

Summer 2016

Prerequisite: Completion of AUCC Category 2.

Restriction:

Registration Information: Required field trips.

Community education and health initiatives in Livingstone, Zambia, in the context of fiction and nonfiction about such development work.

ECE 395A Var.[1-6]. Independent Study. F, S, SS.

Fall 2016

Prerequisite: None.

Restriction: Undergraduate only.

Registration Information: Contact department for registration. May be taken 6 times for credit for

a maximum of 6 credits.

Development and implementation of a project in an electrical and computer engineering field of special interest under the supervision of a faculty member.

ECE 395B Var.[1-6]. Independent Study: Open Option Project. F, S.

Fall 2016

Prerequisite: None.

Restriction: Undergraduate only.

Registration Information: Contact department for registration. May be taken 6 times for credit for

a maximum of 6 credits.

Students will work on an array of different electrical and computer engineering projects independently or under the guidance of industry mentors. Projects will be initiated by students or outside sources and will consist of small-scale service/outreach projects or market-driven projects that simulate a business environment.

ECE 395C Var.[1-6]. Independent Study: Vertically Integrated Project. F, S.

Fall 2016

Prerequisite: None.

Restriction: Undergraduate only.

Registration Information: Contact department for registration. May be taken 6 times for credit for

a maximum of 6 credits.

Explore and develop comprehensive applications of electrical and computer engineering technologies as a member of a team, especially as they relate to active research areas of CSU faculty members.

ECE 495A Var.[1-6]. Independent Study. F. S. SS.

Fall 2016

Prerequisite: None.

Restriction: No Freshman, No Sophomore.

Registration Information: Contact department for registration. May be taken 6 times for credit for

a maximum of 6 credits.

Development and implementation of a project in an electrical and computer engineering field of special interest under the supervision of a faculty member.

ECE 495B Var.[1-6]. Independent Study: Open Option Project. F, S.

Fall 2016

Prerequisite: None.

Restriction: No Freshman, No Sophomore, Undergraduate only.

Registration Information: Contact department for registration. May be taken 6 times for credit for

a maximum of 6 credits.

Students will work on an array of different electrical and computer engineering projects independently or under the guidance of industry mentors. Projects will be initiated by students or outside sources and will consist of small-scale service/outreach projects or market-driven projects that simulate a business environment.

ECE 495C Var.[1-6]. Independent Study: Vertically Integrated Projects. F, S.

Fall 2016

Prerequisite: None.

Restriction: No Freshman, No Sophomore, Undergraduate only.

Registration Information: Contact department for registration. May be taken 6 times for credit for a maximum of 6 credits.

Explore and develop comprehensive applications of electrical and computer engineering technologies as a member of a team, especially as they relate to active research areas of CSU faculty members.

ECE 511 03(3-0-0). Global Navigation Satellite System Receivers. F.

Fall 2016

Prerequisite: ECE 312 with a minimum grade of C; ECE 411, may be taken concurrently.

Restriction:

Registration Information:

Fundamentals of global navigation satellite systems (GNSS) receivers and software-based implementation of GNSS receiver functions.

ECE 515 03(3-0-0). Satellite Navigation Systems Engineering. S.

Spring 2017

Prerequisite: CS 160 with a minimum grade of C; ECE 311 with a minimum grade of C; MATH 261 with a minimum grade of C; PH 142 with a minimum grade of C.

Restriction:

Registration Information:

Fundamentals of GPS, satellite orbits, ground monitoring and control, receiver systems, measurement errors and correction techniques, and PVT calculations.

ERHS 505 01(1-0-0). Epidemiologic Research. F.

Prerequisite: ERHS 532 or concurrent registration.

Restriction: Graduate only. Registration Information:

Professional skills and knowledge regarding topics in the epidemiologic research process.

FW 578 03(2-0-1). Conservation Decision Analysis. S.

Prerequisite: (MATH 155 or MATH 160) and STAT 301.

Restriction: Graduate only.

Registration Information: Offered as an online course only. Written consent of instructor.

Admission to a graduate program in Fish, Wildlife and Conservation Biology.

Identifying decision making processes and adaptive management techniques used in conservation; consideration of objectives, options and outcomes.

HIST 436A 02(2-0-1). The Land of Israel—Past and Present: Study Abroad—Pre & Post Travel Study. S.

Prerequisite: Three credits of HIST.

Restriction:

Registration Information: Required field trips. Written consent of instructor. Must register for lecture and recitation.

Physical geography, material culture, history of Israel: ancient, medieval, and modern.

HIST 436B 01(0-0-1). The Land of Israel—Past and Present: Study Abroad. S.

Prerequisite: Three credits of HIST.

Restriction:

Registration Information: Written consent of instructor. Required field trips.

Physical geography, material culture, history of Israel: ancient, medieval, and modern.

MATH 271 04(4-0-0). Applied Mathematics for Chemists I. F.

Prerequisite: MATH 155 or MATH 159 or MATH 160.

Restriction:

Registration Information:

Series and limits, Taylor series, complex variables, first- and second- order ordinary differential equations, matrices, linear transformations, determinants, and eigenvalues.

MATH 272 04(4-0-0). Applied Mathematics for Chemists II. S.

Prerequisite: MATH 271.

Restriction:

Registration Information:

Vector fields, partial differentiation, cylindrical and spherical coordinates, multiple integrals, line integrals, the Wave and the Schrödinger equations, separation of variables method. Inner Product Spaces. Fourier Series.

Fall 2016

Spring 2017

Spring 2017

Spring 2017

Fall 2016

Spring 2017

Major Change to Courses

GEOL 572672 043(32-3-0). Advanced Structural Geology. F.

Fall 2016

Prerequisite: GEOL 436 or graduate standing in Geosciences.

Restriction: No Freshman, No Sophomore, No Junior.

Registration Information: Must register for lecture and laboratory. Required field trips.

Rheology, deformation mechanisms, structural associations and advanced methods of

structural analysis.

JTC 210 03(3-0-0). Newswriting. F, S, SS.

Spring 2016

Prerequisite: None.

Restriction:

Registration Information: Credit not allowed for both JTC 210 and JTC 192. Sections may be

offered: Online.

Theory and practice in newswriting.

MECH 529 03(3-0-0). Advanced Mechanical Systems. E S, odd years only.

Fall 2016

Prerequisite: MECH 307.

Restriction: No Freshman, No Sophomore.

Registration Information: Sections may be offered: Online.

Modeling, analysis, and synthesis of practical mechanical devices in which dynamic response

is dominant consideration.

The meeting adjourned at 4:15 p.m.

(FC) 12/11/15

Carole Makela, Chair Yvonne Bridgeman, Secretary

University Curriculum Committee December 4, 2015

CONSENT AGENDA

Minor Change to Courses

MATH 430	Fourier Wavelet Analysis with Apps	REQUESTED CHANGE MATH <u>340 or</u> Math 345	EFFECTIVE DATE Spring 2017
PH 141	Physics for Scientists and Engineers I	(MATH 126, or concurrently) AND (MATH155, or concurrently) OR (MATH160, or concurrently) OR (MATH 159, or concurrently)	Fall 2016
PH 142	Physics for Scientists and Engineers II	(PH 141) and (MATH 161, may be taken concurrently; or MATH 255, may be taken concurrently; or MATH 271, may be taken concurrently)	Fall 2016
SOCR 350	Soil Fertility Management	(CHEM 107; CHEM 108 or CHEM 111; CHEM 112); SOCR 240	Fall 2016
STAT 315	Statistics for Engineers and Scientists	MATH <u>160</u> 161 or MATH <u>155</u> 255	Fall 2016



University Curriculum Committee December 4, 2015 EXPERIMENTAL COURSE REPORT

COURSE	TITLE	TERM	1 st /2 nd OFFERING	REQUEST DATE
BMS 680A2	Applied Andrology	Spring 2016	1st	11/23/15
FSHN 580A1	Research Methods—Food Science Human Nutrition	Spring 2016	1 st	11/16/15
FSHN 580A2	Responsible Conduct of Research	Spring 2016	1 st	11/5/15
GEOL 581A4	Petrophysics and Well Log Interpretation	Spring 2016	1 st	11/18/15
HES 280A1	Theory of Health Behavior	Spring 2016	1 st	10/21/15
HORT 581A3	Metabolomics: Detection and Data Analysis	Spring 2016	1 st	11/2/15
IU 381A3	Leadership 'On the Court' I	Spring 2016	2 nd	11/24/15
WS 380A2	Feminist Friendship	Spring 2016	1 st	11/4/15



A regular meeting of the University Curriculum Committee was held on December 11, 2015, at 2:00 p.m.

Members present: Chair Carole Makela, Professors Bradley Goetz, Paul Mallette, Brad Reisfeld, Mike Hogan, Ed DeLosh, Sally Sutton, Howard Ramsdell, Beth Oehlerts, Graduate representative Alistair Cook, Undergraduate representative Tyler Siri.

Guests: Yvonne Bridgeman, Kelley Brundage, Linda Selkirk.

Absent: Vice Provost for Undergraduate Affairs.

Minutes

The Minutes of December 4, 2015 were approved.

Experimental Course Report

The Experimental Course Report was received.

Consent Agenda

The Consent Agenda was approved.

Request for Third Offering of Experimental Course

The request to offer IU 181A3 Foundations of Sports Management as an experimental course in Spring 2016 for the third time was approved, with a change in credits from 1 to 2.

New Courses Effective Date

IE 300 03(3-0-0). Global Studies. F, S.

Fall 2016

Prerequisite: None.

Restriction:

Registration Information:

Traditional and changing institutions, systems, values and identities in selected cultures and how they are perceived, portrayed, and experienced.

LAND 200 03(3-0-0). Topics in Landscape Theory and Garden Design. F, S, SS.

Spring 2016

Prerequisite: None.

Restriction:

Registration Information: This is a partial semester course. Offered as an online course only.

Landscape theory and design principles in garden design. Students will be engaged through online discussions and will record weekly exercises and course material with the development of a sketchbook and blog/website postings.

SOC 334 03(3-0-0). Sociology of Intersectionality. F.

Fall 2016

Prerequisite: SOC 100 or SOC 105.

Restriction:

Registration Information:

Multiple and intersecting ways race, class, gender, and sexuality shape society, individual life-chances, and daily social interactions.

SOC 344 03(3-0-0). Health, Medicine, and Society. F.

Fall 2016

Prerequisite: SOC 100 or SOC 105.

Restriction:

Registration Information:

The impact of sociocultural factors like social class, gender, and race/ethnicity on health and illness in society and the social organization of healthcare delivery. The US health care system.

47

University Curriculum Committee December 11, 2015 Page 2

Major Change to Courses

BIOM 574 03(3-0-0). Bio-Inspired Surfaces. S.

Spring 2016

Prerequisite: MECH 342; CHEM 111.

Restriction:

Registration Information: Credit not allowed for both BIOM 574 and MECH 574. Sections may

be offered: Online.

Analysis of surface functionalities of various biological species; identification of design principles.

ECE 501/ENGR 501. 03(3-0-0). Foundations of Systems Engineering. F, S.

Fall 2016

Prerequisite: None.

Restriction:

Registration Information: Sections may be offered: Online.

Functional components of systems engineering, application of systems engineering to practical problems, system life-cycle process.

IE 272 03 1-3(3-0-0). World Interdependence – Current Global Issues. F.

Fall 2016

Prerequisite: None.

Restriction:

Registration Information:

A global perspective focusing on an international topic receiving current media coverage. Current global issues, using guest speakers and focusing on global/international topics in the news.

MU 150 01 02(20-2-0). Piano Class I. F, S, SS.

Fall 2016

Prerequisite: None.

Restriction:

Registration Information: Required of all Bachelor of Music majors, except those in the piano or organ performance option. May test out if adequate keyboard skills. For nonmusic majors and majors needing basic skills.

Basic piano technique; keyboard harmony and music rudiments.

MU 286 03-01(1-0-4). Practicum-Introduction to Music Education. F-S.

Fall 2016

Prerequisite: None.

Restriction:

Registration Information: Must register for lecture and recitation.

TH 192 03 1-18(0-0-3). Theatre Freshman Seminar. F S, SS.

Fall 2016

Prerequisite: None.

Restriction: Theatre Majors Only.

Registration Information:

Collaborative creative processes required to transfer <u>storytelling and self-scripting literature</u> to theatrical performances with faculty artists/scholars.

TH 250 03 02(20-2-0). Voice and Movement Speech for the Stage. S.

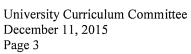
Fall 2016

Prerequisite: TH 251 or concurrent registration.

Restriction: Theatre Majors Only.

Registration Information: Must register for lecture and laboratory.

Broad survey of traditional Linklater and topical Skinner approaches to voice and movement speech for the theatre actor.



48

New Programs

Program Total Credits

College of Natural Sciences Department of Statistics Graduate Certificate in Data Analysis		Effective Spring 2016
Required Cours	es:	
STAT 511	Design and Data Analysis for Researchers I	4
STAT 512	Design and Data Analysis for Researchers II	4
Select a minimu	um of two credits from the following:	
STAT 547	Statistics for Environmental Monitoring	3
STAA 552	Generalized Regression Models	2
STAA 565	Quantitative Reasoning	1
STAA 566	Computational and Graphical Methods	1
STAA 568	Topics Industrial/Organizational Statistics	1
STAA 572	Nonparametric Methods	2
STAA 573	Analysis of Time Series	2

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.



College of Business
Department of Finance & Real Estate
BS in Business Administration
Financial Planning Concentration

Effective Spring 2016

10-11

Freshman

AUC	C Credits
	1
	3
3B	3
	3
1A	3
3C	3
1B	3
3A	4
3B	3
	5
	31
	3
	3
	1
	3
2	3
	3B 1A 3C 1B 3A 3B

University Curriculum Committee Page 4 ECON 204 Principles of Macroeconomics (GT-SS1) STAT 204 Statistics for Business Students Biological and Physical Sciences Global and Cultural Awareness Electives Total Credits Junior ACT 330 Introduction to Taxation Junior ACT 330 Introduction to Taxation FIN 300² Principles of Finance FIN 310 Financial Markets and Institutions FIN 320 Introduction to Financial Planning FIN 325 Principles of Investments FIN 355 Principles of Investments FIN 300² Marketing Historical Perspectives FIN 310 Author Senior Senior Senior BUS 479 Strategic Management FIN 440 Estate Planning FIN 440 E	University (Surriculum Committee 49		
ECON 204 Principles of Macroeconomics (GT-SS1) 3C 3 STAT 204 Statistics for Business Students 3 3 Biological and Physical Sciences 3A 3 Global → Ultural Awareness 3E 3 Electives				
STAT 204 Statistics for Business Students 3 Biological and Physical Sciences 3A 3 Global and Cultural Awareness 3E 3 Electives Total Credits 6 Junior ACT 330 Introduction to Taxation 3 FIN 300² Principles of Finance 4A,4B 3 FIN 310 Financial Markets and Institutions 3 3 FIN 322 Introduction to Financial Planning 3 3 FIN 342 Risk Management and Insurance 3 3 FIN 355 Principles of Investments 3 3 MKT 300² Marketing 3 3 Historical Perspectives 3D 3 Electives Total Credits 30 3 BUS 479 Strategic Management 4A,4C 3 FIN 440 Estate Planning 3 3 FIN 445 Employee Benefits and Retirement Planning 3 3 FIN 445 Financial Plan Development	Page 4			
Biological → Physical Sciences 3A 3 Global and ∪ltural Awareness 3E 3 Electives Total Credits 6 Junior ACT 330 Introduction to Taxation 3 FIN 300² Principles of Finance 4A,4B 3 FIN 310² Financial Markets and Institutions 3 FIN 320² Introduction to Financial Planning 3 FIN 320² Risk Management and Insurance 3 FIN 345 Principles of Investments 3 MKT 300² Marketing 4B 3 Historical Perspectives 3D 3 Electives Total Credits 30 3 Electives Total Credits 4A,4C 3 FIN 445 Strategic Management 4A,4C 3 FIN 445 Financial Plan Development 3 MGT 301 Supply Chain Management 3 MGT 320 Contemporary Management Principles/Practices 3 Financial Plan Development 3		•	3C	3
Global and Ultural Awareness 3E 3 Electives Total Credits 6 Junior ACT 330 Introduction to Taxation 3 FIN 300² Principles of Finance 4A,4B 3 FIN 310 Financial Markets and Institutions 3 5 FIN 320 Introduction to Financial Planning 3 3 FIN 325 Principles of Investments 3 3 MKT 300² Marketing 4B 3 Historical Prespectives 3D 3 Electives Total Credits 6 BUS 479 Strategic Management 4A,4C 3 FIN 449 Strategic Management 4A,4C 3 FIN 449 Estate Planning 3 3 FIN 445 Financial Plan Development 3 3 FIN 445 Financial Plan Development 3 3 MGT 301 Supply Chain Management 3 3 MGT 320 Contemporary M				
Total Credits	-	-		3
Total Credits Junior ACT 330 Introduction to Taxation 3 FIN 300² Principles of Finance 4A,4B 3 FIN 310 Financial Markets and Institutions 3 FIN 320 Introduction to Financial Planning 3 FIN 342 Risk Management and Insurance 3 FIN 355 Principles of Investments 3 MKT 300² Marketing 4B 3 Historical Perspectives 3D 3 Electives Total Credits 6 Total Credits Senior 6 BUS 479 Strategic Management 4A,4C 3 FIN 440 Estate Planning 3 FIN 442 Employee Benefits and Retirement Planning 3 FIN 445 Financial Plan Development 3 MGT 301 Supply Chain Management 3 MGT 320 Contemporary Management Principles/Practices 3 Electives³ Total Credits 2		<u>Cultural Awareness</u>	3E	
ACT 330 Introduction to Taxation 3 FIN 300² Principles of Finance 4A,4B 3 FIN 310 Financial Markets and Institutions 3 FIN 320 Introduction to Financial Planning 3 FIN 342 Risk Management and Insurance 3 FIN 355 Principles of Investments 3 MKT 300² Marketing 4B 3 Historical Perspectives 3D 3 Electives Total Credits 30 Senior BUS 479 Strategic Management 4A,4C 3 FIN 440 Estate Planning 3 FIN 442 Employee Benefits and Retirement Planning 3 FIN 445 Financial Plan Development 3 MGT 301 Supply Chain Management 3 MGT 320 Contemporary Management Principles/Practices 3 Electives² Total Credits 2	Electives			6
ACT 330 Introduction to Taxation 3 FIN 300² Principles of Finance 4A,4B 3 FIN 310 Financial Markets and Institutions 3 FIN 320 Introduction to Financial Planning 3 FIN 342 Risk Management and Insurance 3 FIN 355 Principles of Investments 3 MKT 300² Marketing 4B 3 Historical Perspectives 3D 3 Electives Total Credits 30 BUS 479 Strategic Management 4A,4C 3 FIN 440 Estate Planning 3 FIN 442 Employee Benefits and Retirement Planning 3 FIN 445 Financial Plan Development 3 MGT 301 Supply Chain Management 3 MGT 320 Contemporary Management Principles/Practices 3 Electives ³ Total Credits 10		Total Credits		31
FIN 300² Principles of Finance 4A,4B 3 FIN 310 Financial Markets and Institutions 3 FIN 320 Introduction to Financial Planning 3 FIN 342 Risk Management and Insurance 3 FIN 355 Principles of Investments 3 MKT 300² Marketing 4B 3 Historical Perspectives 3D 3 Electives 6 30 Senior BUS 479 Strategic Management 4A,4C 3 FIN 440 Estate Planning 3 FIN 442 Employee Benefits and Retirement Planning 3 FIN 445 Financial Plan Development 3 MGT 301 Supply Chain Management 3 MGT 320 Contemporary Management Principles/Practices 3 Electives³ 10 Total Credits 28		Junior		
FIN 310 Financial Markets and Institutions 3 FIN 320 Introduction to Financial Planning 3 FIN 342 Risk Management and Insurance 3 FIN 355 Principles of Investments 3 MKT 300² Marketing 4B 3 Historical Prespectives 3D 3 Electives 6 7 3D 3 Electives Folial Credits 30 3 FIN 440 Estate Planning 3 4A,4C 3 FIN 442 Employee Benefits and Retirement Planning 3 3 FIN 445 Financial Plan Development 3 3 MGT 301 Supply Chain Management 3 3 MGT 320 Contemporary Management Principles/Practices 3 3 Electives³ Contemporary Management Principles/Practices 3 3 Financial Plan Development 3 3 3 3 3 3 3 3 3 3 3 3 3 3 <	ACT 330	Introduction to Taxation		3
FIN 320 Introduction to Financial Planning 3 FIN 342 Risk Management and Insurance 3 FIN 355 Principles of Investments 3 MKT 300² Marketing 4B 3 Historical Perspectives 3D 3 Electives 6 30 Total Credits 30 Senior BUS 479 Strategic Management 4A,4C 3 FIN 440 Estate Planning 3 FIN 442 Employee Benefits and Retirement Planning 3 FIN 445 Financial Plan Development 3 MGT 301 Supply Chain Management 3 MGT 320 Contemporary Management Principles/Practices 3 Electives³ 10 Total Credits 28	FIN 300 ²	Principles of Finance	4A,4B	3
FIN 342 Risk Management and Insurance 3 FIN 355 Principles of Investments 3 MKT 300² Marketing 4B 3 Historical Perspectives 3D 3 Electives 6 30 Total Credits 30 Senior BUS 479 Strategic Management 4A,4C 3 FIN 440 Estate Planning 3 FIN 442 Employee Benefits and Retirement Planning 3 FIN 445 Financial Plan Development 3 MGT 301 Supply Chain Management 3 MGT 320 Contemporary Management Principles/Practices 3 Electives³ 10 Total Credits 28	FIN 310	Financial Markets and Institutions		3
FIN 355 Principles of Investments 3 MKT 300² Marketing 4B 3 Historical Perspectives 3D 3 Electives Total Credits 30 Senior BUS 479 Strategic Management 4A,4C 3 FIN 440 Estate Planning 3 FIN 442 Employee Benefits and Retirement Planning 3 FIN 445 Financial Plan Development 3 MGT 301 Supply Chain Management 3 MGT 320 Contemporary Management Principles/Practices 3 Electives³ 10 Total Credits 28	FIN 320	Introduction to Financial Planning		3
MKT 300² Marketing 4B 3 Historical Perspectives 3D 3 Electives Total Credits 30 Senior BUS 479 Strategic Management 4A,4C 3 FIN 440 Estate Planning 3 FIN 442 Employee Benefits and Retirement Planning 3 FIN 445 Financial Plan Development 3 MGT 301 Supply Chain Management 3 MGT 320 Contemporary Management Principles/Practices 3 Electives³ Total Credits 28	<u>FIN 342</u>	Risk Management and Insurance		3
Historical Perspectives3D3ElectivesTotal Credits30SeniorBUS 479Strategic Management4A,4C3FIN 440Estate Planning3FIN 442Employee Benefits and Retirement Planning3FIN 445Financial Plan Development3MGT 301Supply Chain Management3MGT 320Contemporary Management Principles/Practices3Electives³Total Credits28	<u>FIN 355</u>	Principles of Investments		3
Electives6Total Credits30SeniorBUS 479Strategic Management4A,4C3FIN 440Estate Planning3FIN 442Employee Benefits and Retirement Planning3FIN 445Financial Plan Development3MGT 301Supply Chain Management3MGT 320Contemporary Management Principles/Practices3Electives³10Total Credits28	MKT 300 ²	Marketing	4B	3
Total Credits30SeniorBUS 479Strategic Management4A,4C3FIN 440Estate Planning3FIN 442Employee Benefits and Retirement Planning3FIN 445Financial Plan Development3MGT 301Supply Chain Management3MGT 320Contemporary Management Principles/Practices3Electives³Total Credits10Total Credits28	<u>Historical I</u>	<u>Perspectives</u>	3D	3
SeniorBUS 479Strategic Management4A,4C3FIN 440Estate Planning3FIN 442Employee Benefits and Retirement Planning3FIN 445Financial Plan Development3MGT 301Supply Chain Management3MGT 320Contemporary Management Principles/Practices3Electives³10Total Credits28	Electives			6
BUS 479Strategic Management4A,4C3FIN 440Estate Planning3FIN 442Employee Benefits and Retirement Planning3FIN 445Financial Plan Development3MGT 301Supply Chain Management3MGT 320Contemporary Management Principles/Practices3Electives³10Total Credits28		Total Credits		30
FIN 440 Estate Planning 3 FIN 442 Employee Benefits and Retirement Planning 3 FIN 445 Financial Plan Development 3 MGT 301 Supply Chain Management 3 MGT 320 Contemporary Management Principles/Practices 3 Electives³ 10 Total Credits 28		Senior		
FIN 442Employee Benefits and Retirement Planning3FIN 445Financial Plan Development3MGT 301Supply Chain Management3MGT 320Contemporary Management Principles/Practices3Electives³10Total Credits28	BUS 479	Strategic Management	4A,4C	3
FIN 445Financial Plan Development3MGT 301Supply Chain Management3MGT 320Contemporary Management Principles/Practices3Electives³10Total Credits28	<u>FIN 440</u>	Estate Planning		3
MGT 301 Supply Chain Management 3 MGT 320 Contemporary Management Principles/Practices 3 Electives 10 Total Credits 28	<u>FIN 442</u>	Employee Benefits and Retirement Planning		3
MGT 320 Contemporary Management Principles/Practices 3 Electives 10 Total Credits 28	<u>FIN 445</u>	Financial Plan Development		3
Electives ³ 10 Total Credits 28	MGT 301	Supply Chain Management		3
Total Credits 28	MGT 320	Contemporary Management Principles/Practices		3
	Electives ³			10
Program Total Credits: 120		Total Credits		28
		Program Total Credits:		120

¹ Students enrolled in the Business Administration major prior to Fall semester 2013, are not required to take BUS 201 and BUS 220.

Students are not to utilize the satisfactory/unsatisfactory (S/U) grading option for any Business concentration course (Business and non-Business subject codes) except when a course only allows S/U grading.



² Students who have taken <u>FIN 305</u> and/or <u>MKT 305</u> prior to admission to the College of Business may substitute those courses to satisfy the category 4A and 4B requirements. All other students are required to take <u>FIN 300</u> and <u>MKT 300</u> to satisfy categories 4A and 4B.

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).



Major Change to Curricula

Warner College of Natural Resources Department of Forest & Rangeland Stewardship Master of Natural Resource Stewardship, Plan C Ecological Restoration Specialization Effective Fall 2016

Core Courses

Core Courses		
Select one course fro	om the following:	
<u>F 520</u>	Advanced Quantitative Methods in Forestry I	3
NR 566	Natural Resource Inventory and Data Analysis	3
RS 532	Rangeland Ecosystem Sampling	3
<u>NR 444</u>	Fire Economics and Policy	3
or <u>NR 568</u>	Economics of Forests, Restoration and Fire	
NR 565	Principles of Natural Resources Ecology	3
or <u>NR 578</u>	Ecology of Disturbed Lands	
NR 567	Analysis of Environmental Impact	3
NR 693	Natural Resources Stewardship Seminar	2
Ecological Restoration	on Specialization	
Select a minimum 9	credits from the following:	
BSPM 551	Advanced Integrated Pest Management	4
BSPM 556	Biological Control of Plant Pests	3
BZ 572	Phytoremediation	3
CIVE 613	River Restoration Design	3
ECOL 505	Foundations of Ecology	2
ESS 575	Models for Ecological Data	4
ESS 660	Biogeochemical Cycling in Ecosystems	3
NR 552	Ecology of Military Lands	3
NR 577	Wetland Ecology and Restoration	3
NR 678	Advanced Ecological Restoration	4
SOCR 567	Environmental Soil Chemistry	4
Electives ¹		7
Program Total Credi	ts	30

A minimum of 30 credits are required to complete this program.

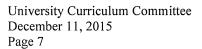
¹ Select courses with approval of advisor and graduate committee.



University Curriculum Committee December 11, 2015

CONSENT AGENDA

	Course Drops	REQUESTED CHANGE	EFFECTIVE DATE
ETST 475	Indigenous Film and Video	DROP	Fall 2016
ECE 501	Foundations of Systems Engineering	DROP	Fall 2016
	Minor Change to Courses		
D 226	Dance Choreography I	REQUESTED CHANGE Offering term: Spring Fall	EFFECTIVE DATE Fall 2016
E 422/ ETST 422	African-American Literature	Prerequisite: 3 credits of AUCC 3B or AUCC 3E. CO 150 and E 270.	Fall 2016
LFRE 433A	Advanced French/Francophone Culture: Representations	Offering year: <u>Odd</u> Every	Spring 2016
LFRE 433B	Advanced French/Francophone Culture: Center and Margins	Offering year: Even Every	Spring 2016
MU 151	Piano Skills for Music Educators	Prerequisite: MU 150	Fall 2016
MU 153	Piano Skills for Music Therapists	Offering Term: Fall Fall, Spring Prerequisite: MU 150	Fall 2016
MU 154	Jazz Piano Class	Prerequisite: MU 150; MU 255	Fall 2016
MU 254	Beginning Conducting	Offering term: Fall Spring	Fall 2016
SOC 313	Computer Methods in Sociology	Prerequisite: (SOC 210) or (STAT 2XX or above)	Summer 2016
STAT 400	Statistical Computing	Prerequisite: STAT 420 or concurrent registration; CS 160 or CS 163 or CS 164 or (MATH 151 and MATH 153) and (STAT 372)	Fall 2016
TH 241	Text Analysis for the Theatre	Prerequisite: TH 175 and TH 150 or TH 160	Fall 2016
TH 324	Teaching Creative Drama for Children	Prerequisite: <u>TH 251 or</u> <u>TH 255</u>	Fall 2016





TH 375

Playwright's Workshop

Prerequisite: TH 241

Fall 2016

275; TH 343

University Curriculum Committee December 11, 2015 EXPERIMENTAL COURSE REPORT

COURSE	TITLE	TERM	1 st /2 nd OFFERING	REQUEST DATE
ANEQ 580A3	Marker- and Gene-Assisted Selection	Spring 2016	1 st	11/30/15
ANEQ 580A4	Markers to Gene Function— Functional Change	Spring 2016	1 st	11/30/15
ANTH 180A1	Human Origins and Variation	Spring 2016	1 st	11/23/15
IU 181A3	Foundations of Sports Management	Spring 2016	3^{rd}	12/9/15



MEMORANDUM

December 3, 2015

To: University Curriculum Committees

From: Albert Bimper, Assistant Prof.

Director of Denver Broncos Sports Management Institute

RE: Third request for experimental course

The experimental course with the general title of Foundations of Sports Management was initially created with the intent to develop an introductory course to study industries of sport. The course has been offered twice, in Spring 2015 and Fall 2015, at the 100-level (IU181). For both offerings, the course was delivered via online. The primarily content in the initial offering included recorded interviews for purposes of discussion that were submitted by practitioners in various sports industries and including minimal lecture and readings. Based on my review of the course and student feedback, this approach did not adequately fulfill the course purposes as well as the needs for this student population. After significant revision, I offered the course a second time with more comprehensive content and practical learning activities suitable for this population of students, which I would like to try one more time as a 2 credit experimental course.

The next course offering will include a new textbook with updated content material, more comprehensive information and case studies for students to critically problem solve. I intend to make an official new course request subsequent to student performance and course evaluations that reflect a quality learning experience aligned with the course purposes and objectives.

Albert Y. Bimper, Jr., PhD.

Assistant Professor
Senior Associate Athletics Director
Director, The Denver Broncos Sports Management Institute
Colorado State University
Campus Delivery - 1790
Ft. Collins, CO 80523-1790
E-Mail: Albert.Bimper@colostate.edu

A regular meeting of the University Curriculum Committee was held on January 15, 2016, at 2:00 p.m.

Members present: Chair Carole Makela, Professors Tiare Santistevan substitute for Bradley Goetz, Paul Mallette, Brad Reisfeld, Mike Hogan, Ed DeLosh, Sally Sutton, Howard Ramsdell, Beth Oehlerts, Interim Vice Provost for Undergraduate Affairs David Gilkey.

Guests: Yvonne Bridgeman, Kelley Brundage, Linda Selkirk.

Absent: Graduate representative Allistair Cook, Undergraduate representative Tyler Siri

Minutes

The Minutes of December 11, 2015 were approved. Corrected Minutes from December 4, 2015 were approved.

Experimental Course Report

There was no Experimental Course Report.

Consent Agenda

The Consent Agenda was approved with one change.

Effective Date New Courses

ACT 211 01(1-0-0). Accounting Professional Skills. F, S.

Spring 2017

Prerequisite: ACT 210.

Restriction:

Registration Information:

Survey of accounting profession career options, certifications, and professional skills.

ANEQ 293 01(1-0-0). Animal Science Career Exploration Seminar. F, S.

Fall 2016

Prerequisite: ANEQ 101.

Restriction: No Freshman. Undergraduate Only.

Registration Information: This is a partial-semester course.

Better understanding of individual abilities, strengths and passions is imperative to be successful in a career search as well as to succeeding in life. Designed to help a student explore who they are individually, how they might fit into a career or graduate programs in animal agriculture as well as how to prepare marketing materials to be competitive in selection processes.

ANEQ 450 03(2-3-0). Processed Meats. F.

Fall 2016

Prerequisite: ANEQ 360. Restriction: No Freshman.

Registration Information: Must register for lecture and laboratory.

Physical, chemical and functional characteristics of meat raw materials. Science and technology of value-added processing including curing, sausage manufacture, low moisture products, and restructuring. Quality assurance and related current industry topics.

ECE 647 03(3-0-0). Synchrotron Rad, FELs and Hard X-Ray Optics. F (odd years).

Fall 2017

Prerequisite: (ECE 341 with a C or better) or (ECE 342 with a C or better) or (PH 351 with a C or better).

Restriction:

Registration Information: Sections may be offered: Online.

Advanced concepts in particle beam accelerator technology and engineering, linear accelerators and principles of intense pulsed electron ion beams.



University Curriculum Committee

January 15, 2016

Page 2

ERHS 507A 01(1-0-0). Toxicology Toolbox: Fundamentals. F.

Fall 2016

Prerequisite: (ERHS 466 or concurrent registration) or (ERHS 448 or concurrent registration) or (ERHS 502 or concurrent registration).

Restriction:

Registration Information:

Qualitative description of toxicant molecules relevant to their behavior in biological systems and the environment. Quantitative characterization of toxicant concentrations (dose) and how they change with time (toxicokinetics).

ERHS 535 03(2-2-0). R Programming for Research. F.

Fall 2016

Prerequisite: None.

Restriction: Graduate Only.

Registration Information: Must register for lecture and laboratory. Until one week prior to the first day of classes, enrollment is restricted to students enrolled in the Epidemiology specialization of the Environmental Health degree or a graduate degree program in Statistics or the Master of Applied Statistics program. Thereafter, enrollment is open to any student enrolled in a graduate degree program.

In-depth instruction on data collection, data management, programming, and visualization, using data examples relevant to academic research. Taught using the statistical programming language R, but the principals will be translatable to other programming languages (e.g., Python, Matlab, SAS). Conducting reproducible research in R and how to construct custom functions and bundle these in a shareable R package.

ESS 655 02(2-0-0). Multivariate Analysis for Community Ecology. F (even years).

Fall 2016

Prerequisite: STAT 511 and (ECOL 500-679 or ESS 500-679 or FW 500-679 or BZ 500-679 - at least 3 credits).

Restriction:

Registration Information:

Techniques and conceptual understanding for analyzing multivariate ecological data characteristic of community ecology, including ordination, classification, and permanova.

FW 692 Var. [1-18]. Seminar: Fish, Wildlife, and Conservation Bio. F, S, SS.

Fall 2016

Prerequisite: None.

Restriction: Graduate Only. Professional Only.

Registration Information: Sections may be offered: Online.

MIP 766 01(0-0-1). Cytopathology—Clinical Pathology. S.

Spring 2017

Prerequisite: MIP 786A; MIP 786B; MIP 786C. Restriction: Graduate Only. Professional Only.

Registration Information: Written consent of instructor.

Discussion of cytology cases that are diagnostically challenging, medically interesting, or classic case examples. Discussions and microscopic reviews of the cases will be lead by a clinical pathologist.

NRRT 425 03(3-0-0). Communication for Tourism. F, S, SS.

Fall 2016

Prerequisite: NRRT 372.

Restriction: No Freshman. No Sophomore.

Registration Information:

Exploration and practical application of communication theories, concepts, and techniques for successful communication in the context of tourism industry practice.

SPCM 712 03(0-0-6). Critical/Cultural Analysis in Communication. F (odd years).

Fall 2016

Prerequisite: None.

Restriction: Graduate Only. Registration Information:

Advanced instruction in critical/cultural analysis as understood by the field of Communication Studies.



Major Change to Courses

ACT 311 043(3-0-1). Intermediate Accounting I. F, S. SS.

Fall 2016

Prerequisite: (ACT 205 with a minimum grade of B- or ACT 210 with a minimum grade of B-)

and (ACT 220 with a minimum grade of B-).

Restriction:

Registration Information: Credit not allowed for both ACT 311 and ACT 310.

Preparation and analysis of financial statements under US generally accepted accounting principles (GAAP); accounting for revenue and assets. Asset and liability accounting.

ANEO 420520 03(3-0-0). Applied Comparative Nutrition—Computer Diet Formulation. F

(even years).

Prerequisite: ANEQ 320 or ANEQ 345 FSHN 550; FSHN 551.

Restriction: No Freshman. No Sophomore.

Registration Information:

Comparative diet formulation digestion strategies for cattle (beef and dairy), equine, swine, and poultry, mechanisms of nutrient utilization for terrestrial vertebrates: Utilizing advanced computer software to formulate diets, predict performance, and manage ingredient inventory. livestock, pets, wildlife, and zoo animal models.

ANTH 373 03(3-0-0). Human Evolution. F, S, SS.

Prerequisite: ANTH 120 or BZ 110.

Restriction:

Registration Information: Sections may be offered: Online.

Current topics and debates in human evolution concentrating on biocultural changes in the

human lineage.

ANTH 545 043(3-2-0). Global Mental Health—Theory and Method. F (odd years).

Prerequisite: None.

Restriction: Graduate Only.

Registration Information: Must register for lecture and laboratory. Graduate standing.

Undergraduates must have written consent of instructor.

Cross-cultural study of mental health and healing; cultural, clinical, and biological

neurological perspectives; integration of theory and method.

BUS 220 03(3-0-0). Ethics in Contemporary Organizations. F, S, SS.

Fall 2016

Prerequisite: None.

Restriction:

Registration Information: Sections may be offered: Online.

Examination and application of the ethical principles that are fundamental to managing a

successful high-integrity business or organization.

FW 696B Var. [1-18]. Group Study: Fish, Wildlife, Conserv Biology-Wildlife Biology. F, S, Fall 2016

SS.

Prerequisite: None.

Restriction: Graduate Only. Professional Only.

Registration Information: Written consent of instructor. Sections may be offered: Online.

Group study projects on topics in fish, wildlife, and conservation biology. Wildlife Biology.

GES 520 03(3-0-0). Issues in Global Environmental Sustainability. F, S.

Prerequisite: None.

Restriction: Graduate Only. Professional Only.

Registration Information: Graduate standing. Sections may be offered: Online.

Analysis of the different major dimensions/definitions of sustainability in current issues involving environmental, social and economic systems.

Fall 2016

Fall 2016

Fall 2017

Summer 2016



New Programs

College of Business
Department of Marketing
Undergraduate Certificate in Customer Experience Management

Effective Summer 2016

Additional coursework may be required due to prerequisites.

Code	Title	Credits
MKT 366	Services Marketing	3
MKT 370	Digital Marketing	3
<u>MKT 360</u>	Retailing	aus annual american au famil, a chiade à a changaidh maig meiricean à là bhí a chuigh ghiadh mha a, pe chuigh a bhail a chuid a chuid an dha chuid an dha an dha chuid an dha an dha chuid
or MKT 367	Sports Marketing	
Program Total Credits		9



College of Business
Department of Marketing

Effective Summer 2016

Undergraduate Certificate in Marketing Communication and Branding

Additional coursework may be required due to prerequisites.

Code	Title	Credits
MKT 320	Integrated Marketing Communications	3
MKT 315	Marketing Communication Design	3
MKT 370	Digital Marketing	3
Program Total Cr		9



College of Business Department of Marketing Undergraduate Certificate in Strategic Marketing **Effective Spring 2016**

Additional coursework may be required due to prerequisites.

Code	Title	Credits
Select three course	es from the following:	
MKT 320	Integrated Marketing Communications	3
MKT 330	Business Customer Relationships	3
MKT 440	Pricing and Financial Analysis in Marketing	3
MKT 364	Product Development and Management	3

Program Total Credits

9



The meeting adjourned at 4:25 p.m.



LGER 434

LSPA 300

Advanced German Culture

Spanish

Reading and Writing for Communication-

University Curriculum Committee January 15, 2016 CONSENT AGENDA

	Course Drops	REQUESTED	EFFECTIVE
ACT 310	Financial Statement Analysis	CHANGE DROP	DATE Fall 2016
ACT 421	Management Control Systems	DROP	Fall 2016
ACT 442	International Accounting	DROP	Fall 2016
ACT 511	Advanced Accounting I	DROP	Fall 2016
FW 692A	Seminar: Fishery Biology	DROP	Fall 2016
FW 696A	Group Study: Fishery Biology	DROP	Fall 2016
	Minor Change to Courses		
ANEQ 322	Pet Nutrition	REQUESTED CHANGE Prerequisite: ANEQ 320 or and ANEQ 345 or and FSHN 350	EFFECTIVE DATE Fall 2016
ANEQ 522	Animal Metabolism	Prerequisite: ANEQ 320 or ANEZ 345.	Fall 2016
	*REMOVED FROM CONSENT AGENDA FOR OTHER CONSIDERATION	CHEM 346 or CHEM 245 and CHEM 246	
BUS 601	Quantitative Business Analysis	BUS 500 or concurrent registration. BUS 601 to 665 – at least 1 course taken after	Spring 2016
<u>LGER 301</u>	Oral Communication-German	Offering Term: Fall Spring	Spring 2016

Offering Term: Fall,

Prerequisite: LGER 355 or LGER 366

Offering Term: Fall,

Prerequisite: LSPA 201 or LSPA 230

Spring Every

Spring

Spring 2016

Spring 2016

University Curriculum Committee January 15, 2016

Page 6

Capstone Seminar SOC 403

Prerequisite: (SOC

Fall 2016

210 or (STAT 2** or above) SOC 2**) and (SOC 301 or SOC 302) and SOC 311 and

(SOC 313 or CS 110)

SOC 487

Internship

Prerequisite: (SOC

Fall 2016

210 or (STAT 2** or above) SOC 2**) and (SOC 301 or SOC 302) and SOC 311 and

(SOC 313 or CS 110)

SOC 492

Seminar

Prerequisite: (SOC

Fall 2016

210 or (STAT 2** or above) SOC 2**) and (SOC 301 or SOC 302) and SOC 311 and (SOC 313 or CS 110)



A regular meeting of the University Curriculum Committee was held on January 22, 2016, at 2:00 p.m.

Members present: Chair Carole Makela, Professors Bradley Goetz, Paul Mallette, Brad Reisfeld, Mike Hogan, Ed DeLosh, Sally Sutton, Howard Ramsdell, Beth Oehlerts, Interim Vice Provost for Undergraduate Affairs David Gilkey, Graduate representative Allistair Cook, Undergraduate representative Tyler Siri.

Guests: Yvonne Bridgeman, Kelley Brundage, Sandra Quackenbush.

Absent:

Minutes

The Minutes of January 15, 2016 were approved.

Experimental Course Report

There was no Experimental Course Report.

Consent Agenda

There was no Consent Agenda, January 1/22/16.

New Courses Effective Date

ANEQ 626 04(3-1-0). Animal Nutrition, Emissions, and Management. F, S. Fall 2016

Prerequisite: None.

Restriction: Graduate Only.

Registration Information: Must register for lecture and laboratory. Required field trips.

Nutrients and nutrient function required to support animal life through all physiological states and assessment of the impacts on gaseous emissions from these animals.

ANTH 454 03(3-0-0). Anthropological Perspectives on Food. F.

Prerequisite: Two courses ANTH 100, ANTH 120, ANTH 140, or ANTH 200.

Restriction: No Freshman, No Sophomore. Undergraduate only.

Registration Information: Junior standing.

A long term perspective on the political economy of human food ways from ancient hunter-gatherers to the present. Topics will include foraging practices, domestication, feasting and emergent social complexity, the role of food in ancient states, and globalization, as well as the modern food economy. Lectures and readings will be based on research in archaeology, cultural anthropology, and biological anthropology.

ESS 698 Var. [1-18]. Research. F, S, SS.

Prerequisite: None.

Restriction: Graduate Only.

Registration Information: Written consent of advisor.

ESS 699 Var. [1-18]. Thesis. F, S, SS.

Prerequisite: None.

Restriction: Graduate Only.

Registration Information: Written consent of advisor.

ESS 798 Var. [1-18]. Research. F, S, SS.

Prerequisite: None.

Restriction: Graduate Only.

Registration Information: Written consent of advisor.

Fall 2016

Fall 2016

Fall 2016

Fall 2016

ESS 799 Var. [1-18]. Dissertation. F, S, SS.

Fall 2016

Prerequisite: None.

Restriction: Graduate Only.

Registration Information: Written consent of advisor.

MIP 767 03(3-0-0). Advanced General Pathology. F.

Fall 2016

Prerequisite: None.

Restriction: Graduate Only. Professional Only.

Registration Information:

In-depth, detailed study of general pathology and molecular mechanisms of disease. Help prepare students in the Anatomic and/or Clinical Pathology Residency prepare for the ACVP Board examination. Enhance the pathology knowledge and skills of Professional Veterinary Medicine students and graduate students in related disciplines.

SOC 324 03(3-0-0). Food Justice. F.

Fall 2016

Prerequisite: SOC 100 or SOC 105.

Restriction:

Registration Information:

Food justice strives to eliminate exploitation and oppression by challenging the structural drivers within and beyond the food system. As a practice, food justice advocates for the right to healthy food that is justly and sustainably produced, recognizes diverse cultural foodways and histories, and promotes democratic participation and equitable distribution of resources in the food system.

Major Change to Courses

FW 544 03(2-0-1). Ecotoxicology. S.

Spring 2017

Prerequisite: (LIFE 320 or LAND 220 or LIFE 220) and (STAT 301 or STAT 307).

Restriction: No Freshman. No Sophomore.

Registration Information: Must register for lecture and recitation. Sections may be offered:

Online.

Ecological effects of contaminants on populations, communities, and ecosystems.

MIP 611 04(2-0-2). Advanced Microbiological Research Methods. F.

Fall 2016

Prerequisite: None.

Restriction: Graduate Only. Professional Only.

Registration Information: Must register for lecture and recitation. <u>Enrollment in Admission to the Face-to-Face offering of the course requires admission to the M.S. in Microbiology, Immunology, and Pathology, Plan B program. Sections may be offered: Online.</u>

In-depth presentation of the ever-growing arsenal of techniques needed to be an effective experimental microbiologist/molecular biologist.

MIP 613 04(4-0-0). Applied Microbiology and Virology. F.

Fall 2016

Prerequisite: None.

Restriction: Graduate Only. Professional Only.

Registration Information: Admission to the M.S. Enrollment in the face-to-face offering of this course requires admission to the Microbiology, Immunology, and Pathology M.S. Plan B program. Sections may be offered: Online.

Application of bacteria, fungi and viruses in translational research, from drug and vaccine development to the generation of clean energy.

PSY 330 03(3-0-0). Clinical and Counseling Psychology. S (Even years).

Fall 2016

Prerequisite: PSY 100.

Restriction:

Registration Information:

Additional Information: AUCC 4C: Capstone Experience in the Psychology major,

Counseling/Clinical Concentration.

Conceptualization Specialty areas, conceptualization of clients, assessment, intervention

techniques for behavior change, research methods, ethical issues.

PSY 488 Var. [1-3]. Field Placement. F, S, SS.

Fall 2016

Prerequisite: PSY 310 or PSY 330.

Restriction: Enrollment restricted to students in the Counseling/Clinical Concentration.

Registration Information: Maximum of 12 credits allowed for psychology majors toward graduation for any combination of PSY 295, PSY 296, PSY 384, PSY 484, PSY 486, PSY 488, PSY 495A-F, PSY 496A-F, PSY 498A-F, PSY 499A-F; enrollment limited to one per student per

semester

Additional Information: AUCC 4C: Capstone Experience in the Psychology major,

Counseling/Clinical Concentration.

Supervised affiliation with and/or service work in approved psychological setting.

Major Change to Curricula

College of Business
Department of Accounting
BS in Business Administration
Accounting Concentration

Effective Fall 2016

FRESHMAN			
		AUCC	CREDITS
BUS 100	Introduction to Business		1
<u>BUS 150</u>	Business Computing Concepts and Applications		3
BUS 2011	Foundations of Sustainable Enterprise		1
BUS 2201	Ethics in Contemporary Organizations (GT-AH3)	3B	3
СО 150	College Composition (GT-CO2)	1A	3
ECON 202	Principles of Microeconomics (GT-SS1)	3C	. 3
<u>MATH 141</u>	Calculus in Management Sciences (GT-MA1)	1B	3
Arts and Humanities		3B	3
Biological and Physical Sciences		3A	4
Electives		kaj fira armas paka skaj pjesnjanjanja je fija 1 ° č stoja meksistika in kaj bilanjanjanja	6
	Total Credits	enterprises a monte entreprises for the second Sec. 1 in 1864, the production of the contraction of	30
SOPHOMORE		t tigantigat a mailleach ann airleach (100% an 1887) de chaocht an 1887 de chlocht an 188	egyanakan i kanamana anan i ira yanamanda irinada ahaya waka arabo
ACT 210	Introduction to Financial Accounting		3
ACT 211	Accounting Professional Skills		Lance
ACT 220	Introduction to Managerial Accounting		3
BUS 260	Social-Ethical-Regulatory Issues in Business		3

<u>CIS 200</u>	Business Information Systems		3
ECON 204	Principles of Macroeconomics (GT-SS1)	3C	3
STAT 204	Statistics for Business Students		3
Biological and Phy	vsical Sciences	3A	3
Historical Perspec	<u>tives</u>	3D	3
Electives			<u>5</u> 6
	Total C	Credits	30
JUNIOR			
	ophomore required courses must be completed prior to or concurre ourses. By the beginning of the junior year, students must select or		required
ACT 311	Intermediate Accounting I		4-3
ACT 312	Intermediate Accounting II		3
ACT 321	Cost Management		3
ACT 350	Accounting Information Systems		3
BUS 300	Business Writing and Communication (GT-CO3)	2	3
FIN 300 ²	Principles of Finance	4A,4B	3
MKT 300 ²	Marketing	$^{4\mathrm{B}}$	3
Electives		e Prince (pripagalante, mel e e e e e e e e e e e e e e e e e e	<u>8</u> 9
	Total C	Credits	30
SENIOR			
ACT 330	Introduction to Taxation	united frame de suit 1 e de hand recollère unit 19 d'autre de maissing de seu de suit de décèndre à l'éléphéadh de 19 de	3
ACT 411	Advanced Accounting		3
ACT 441	Auditing Practices	and papers (plant), solid it applicated a fig. accombination of travel and advantage on Crossian below and travels of	3
ACT *** Accounting	ng Elective ³ Upper-Division Elective (300- or 400-level)		3
BUS 479	Strategic Management	4A,4C	3
MGT 301	Supply Chain Management	des (1 met 1 mm). Entre i in mm i har sall y amme dimensionale deliminationale de commune gerendensionale	3
MGT 320	Contemporary Management Principles/Practices		3
Global and Cultur	al Awareness	3 E	3
Electives ^{4 3}			6
	Total C	Credits	30
	Program Total Credits:		120

Students enrolled in the Business Administration major prior to Fall semester 2013, are not required to take BUS 201 and BUS 220.

Students who have taken <u>FIN 305</u> and/or <u>MKT 305</u> prior to admission to the College of Business may substitute those courses to satisfy the AUCC category 4A and 4B requirements. All other students are required to take <u>FIN 300</u> and <u>MKT 300</u> to satisfy AUCC categories 4A and 4B.

³ Choose an additional three upper-division credits in accounting courses (ACT subject code).

⁴⁻³ Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be Upper-

64

Division (300- or 400- level).



College of Health & Human Sciences Department of Construction Management Master of Science in Construction Management, Plan A

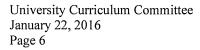
Effective Fall 2016

	auggeste de sent de sent prophysike de groeingen geweinne gebruike de sent de sent de sent de sent de sent de
ed of All Students	nga faring katalang di malajangka sa kapada malagan dan gangka timu. Sa kapada dan dan kapangka sa kapang kapa
Models of Disciplined Inquiry	3
Introduction to Research Methods	n n digwyddiaith gwydd y digwyd y glydau, n n n niw gynhaid ar defl a wyddiaith a daeth diwelliol ac han n n n
Applied Project Management	3
Issues and Trends in Construction Management	3
Research in Construction Management I	3
Research in Construction Management II	3
Project Procurement and Preconstruction	3
Post-Award Construction Management	3
Sustainable Building & Infrastructure Systems	3
Thesis	<u>6</u> 3
nd Information Systems Emphasis	
ses:	6
Applied Productivity Improvement	
Legal Aspects of Construction Process	
	12
1phases	
ses:	9
Sustainable Practice Design and Construction	
Facility Planning and Management	
Sustainable Technology in Build Environments	
	9
	12
	3330
	Models of Disciplined Inquiry Introduction to Research Methods Applied Project Management Issues and Trends in Construction Management Research in Construction Management II Research in Construction Management II Project Procurement and Preconstruction Post-Award Construction Management Sustainable Building & Infrastructure Systems Thesis ad Information Systems Emphasis ess: Applied Productivity Improvement Legal Aspects of Construction Process uphases ess: Sustainable Practice Design and Construction Facility Planning and Management

A minimum of $\underline{33}$ 30-credits are required to complete this program.

With approval by advisor. A minimum of 1 CON graduate elective course (which cannot be CON 695) is required. A maximum of 3 credits of CON 695 is allowed.







College of Health & Human Sciences Department of Construction Management Master of Science in Construction Management, Plan B

Effective Fall 2016

Core Requirements - Requi	red of All Students	mar yan kuna najaman a mbarani musaka Prokonsana najagako an 20 mm Prokon a mbaran sa yanan ke sa arawa ka sa
CON-500	Models of Disciplined Inquiry	ta respect de se minist, est détimo inheticon restrito à committre de debundament a terminal à 2000 a colo tras E
өг- <u>EDRM 600</u>	Introduction to Research Methods	
CON 560	Applied Project Management	3
CON-562	Issues and Trends in Construction Management	3
CON 502	Research in Construction Management I	, and the common accomment is the common and the common and the common according to the common accordi
CON 503	Research in Construction Management II	3
CON 511	Project Procurement and Preconstruction	3
<u>CON 512</u>	Post-Award Construction Management	3
CON 521	Sustainable Building & Infrastructure Systems	3
Research		
CON 698	Research	3
Construction Management	and Information-Systems Emphasis	
Emphasis Area Required Cou	irses:	6
<u>CON 561</u>	Applied Productivity Improvement	
<u>CON 565</u>	Legal Aspects of Construction Process	
Emphasis Area Electives:		15
Sustainable Building (SB) E	Cmphases	
Emphasis Area Required Cou	vrses:	9
<u>CON 476</u>	Sustainable Practice-Design and Construction	
<u>CON 571</u>	Facility Planning and Management	
CON 576	Sustainable Technology in Build Environments	
Emphasis Area Electives: +		12
Electives ¹		18
Program Total Credits		<u>36</u> 33

A minimum of $\underline{36}$ $\underline{33}$ -credits are required to complete this program.

With approval by advisor. A minimum of 2 CON graduate elective courses (which cannot be CON 695) are required. A maximum of 3 credits of CON 695 is allowed.





College of Liberal Arts
Department of English
BA in English
Writing, Rhetoric and Literacy Concentration

Effective Fall 2016

For graduation, an English major must attain a minimum grade point average of 2.000 in upper-division emposition CO and English E courses.

FRESHMAN			
		AUCC	CREDITS
CO 150	College Composition (GT-CO2)	1A	and the second contract of the second contrac
E 240	Introduction to Poetry	t Chamaghaghas at ann a' a Laghadhar Lean Lathanna, an aghafal Agai	3
SPCM 200	Public Speaking		3
Arts and Humanities ¹		3B	ϵ
Biological and Physical Sciences		3A	en el este suit successión en concer, communicativa de quantitativa en recursión de recursión de recursión de r
Mathematics		1B	3
Electives			- 1. 10 m - 1. 1
	Total Credits		31
SOPHOMORE			
Select one course from the following:		***	
<u>CO 300</u>	Writing Arguments (GT-CO3)	2	3
CO 301A	Writing in the Disciplines: Arts and Humanities (GT-CO3)	2 2 2 2	
<u>CO 301B</u>	Writing in the Disciplines: Sciences (GT-CO3)	2	
<u>CO 301C</u>	Writing in the Disciplines: Social Sciences (GT-CO3)	2	_3
CO 301D	Writing in the Disciplines; Education (GT-CO3)	2	_3
CO 302	Writing in Digital Environments (GT-CO3)	2	3
£ 270	Introduction to American Literature (GT-AH2)	3B	3
Select one course from the following:			
E 276	Survey of British Literature I (GT-AH2)	3B	3
E 277	Survey of British Literature II (GT-AH2)	3B	3
Philosophy ²			3
Global and Cultural Awareness		3E	3
Historical Perspectives		3D	3
Social and Behavioral Sciences		3C	3

Electives			P. J	5
	Total Credits			29
JUNIOR		ann an agus shirir masar masalan maran masar a ann an asan ar an ann an ann an a		
Select one course from the following:		nents of the state	orkennetskeletiller in broadelijn of Schange et menteelrekelet	3
<u>CO-300</u>	Writing Arguments (GT-CO3)	2		
<u>CO 301A</u>	Writing in the Disciplines: Arts and Humanities (GT-CO3)	2	_	
<u>CO-301B</u>	Writing in the Disciplines: Sciences (GT-CO3)	2	-	
CO 301C	Writing in the Disciplines: Social Sciences (GT-CO3)	2		minorina langua dipina adapunggiah palajus langua
<u>CO 301D</u>	Writing in the Disciplines: Education (GT-CO3)	2		
CO 402	Principles of Digital Rhetoric and Design			3
E 341	Literary Criticism and Theory	4A,4B		3
Second field ⁴				6
Upper-Division English/Composition Elec	tives (See list below) ⁵			6
Electives				12
	Total Credits			30
SENIOR		Andrew Commission and	a ye-leye'i Aribi'a kiriye (Milleshiye	
<u>CO 401</u>	Writing and Style	glu statelin juurannikunsen inna maar maalikuungoj allik aujitonikusen elij		3
<u>E 406</u>	Topics in Literacy			3
Select one course from the following:				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
E 460	Chaucer	4C		3
E 465	Topics in Literature and Language	4C	faces the control of	3
E 470	Individual Author	4C		3
Second field ⁴				6
Upper-Division English/Composition Elec	tives (See list below) ⁵	and a set of a first and definition for any first deviated and definition of deviation for		9
Electives ^{5 6}			agan ana an	6
	Total Credits	elland, govern 1903-200 - George Planter and george Production	- Scand remains received reconstruction	30
	Program Total Credits:			120

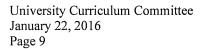
Upper-Division English/Composition Electives

CO 301C

Select a total of 15 credits of upper-division electives in E and CO subject code courses.

Writing in the Disciplines: Social Sciences (GT-CO3)

Code	Title	Credits
Designated Wr	iting	
	se from the following:	
CO 300	Writing Arguments (GT-CO3)	
CO 301A	Writing in the Disciplines: Arts and Humanities (GT-CO3)	3
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)	3





Code	Title	Credits
CO 301D	Writing in the Disciplines: Education (GT-CO3)	3
E 311C	Intermediate Creative Writing: Nonfiction	3
E 403	Writing the Environment	3
E 412C	Creative Writing Workshop: Nonfiction	3

Writing Theory and Pedagogy

Select one cou	rrse from the following:	
E 402	Teaching Composition	3
E 406	Topics in Literacy	3
E 501	Theories of Writing	3
E 502	Language, Literacy, and Learning	3
E 526	Teaching English as a Foreign/Second Language	3
		WA

Literature

Select 3 credits in literature courses	3
Select 6 credits from any upper-division writing, literature, theory, and/or language courses	6

- ² Select from the list of PHIL courses on English Department checksheet.
- Select either one other course from the list of courses in All-University Core Curriculum (AUCC) 3D or one from the list of courses on the English Department checksheet.
- ⁴ The department requires majors to complete a second field. This may be met by completing the second semester of the second year of a foreign language or by completing 12 credits of upper-division courses in a coherent field of study outside of English.
- 5 Select courses not taken elsewhere in the program from the Upper-Division English/Composition List, for a program minimum total of 15 credits.
- ⁵⁶ 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 Liberal Arts
Department of Music, Theatre, and Dance
BA in Theatre
Design and Technology Concentration

Effective Fall 2016

FRESHMAN

		AUCC	CREDITS
Select one course from	the following:		
ART 100	Introduction to the Visual Arts (GT-AH1)	3B	3
1) 110	Understanding Dance (GT-AH1)	<u>3B</u>	3
<u>MU 100</u>	Music Appreciation (GT-AH1)	3B	3

Excludes E subject code courses.

69

University Curriculum Committee January 22, 2016 Page 10

CO 150	College Composition (GT-CO2)	1A	3
<u>TH-141</u>	Introduction to Theatre (GT-AHI)	$^{3\mathrm{B}}$	3.
TH 150	Introduction to Performance	тей (нестаний поменя най тёт, як), с найменя чест на нестание претиграмы, первых не пыраждара и	3
ти 160	Drawing for the Theatre	menyiri il Avimino, ni 1964 Alain Amirin in Amirin delegatimentas. American canada attronoceanissas en escribic	3
TH 161	Technical Theatre: Stagecraft	The Transfer we will be the control of the Control	. 3
<u>TH-163</u>	Costume Construction for the Theatre	Commission from the Commission of the Commission	3
TH-175	Storytelling		3
TH 186	Theatre Practicum I	et en de la companya	anne landa ria d (milina a andronaria meler a su su ministra con antica a su su ministra de la constanta de I
TH 292 ⁺	Design and Technology Seminar	TV Standard Makabaka Salahan Makabaka Salaha Salaha Masabakan yang bara Salaha	2
TH 192	Freshman Seminar	titler de la film de la destination della destination de la destination della della della della della della della della	3
Mathematics		$1\mathrm{B}$	3
Electives			9
		Total Credits	<u>31</u> 30
SOPHOMORE		maren maren maren dikinika ing terbulah perdita pendit dan maren malak pembagai mengangi melaksi bilan saga mang pengganggangan	men programming person in men in militar den digunaria di personali di personali di personali di personali di p
Select one course from of the	following:		
ART 100	Introduction to the Visual Arts (GT-AH1)	<u>3B</u>	3
D 110	Understanding Dance (GT-AH1)	<u>3B</u>	3_
MU 100	Music Appreciation (GT-AH1)	<u>3B</u>	3
<u>TH 241</u>	Text Analysis for the Theatre	бек (4. 144 од Мен Враги) — тем и марки и темпи од бирина и темпи и марки од бирина и темпи од бирина до бирина	3
TH 242	Theatre History I	et that the control the block-weet the character of the property of the charged of the last a series or superior to the control to the contro	3
TH 243	Theatre History II	t tribe - 16 milliott die milliott 18 milliott für die delektik kalantiik is voorden plynkeis. Aa konstalis film - 15 joptember gebreen v	3
TH 260	Computer Assisted Drafting for Theatre		3
Select one course from the fol	lowing:	t 1880 Villa Villa Villa Villa Mark Mark Mark Mark Mark Mark Mark Mar	
TH 262	Stage Management I	at de tra Mandala tra at tra francisco produces deglas fragments a general, a como se energicine quantizar so como fragmente de la como de la c	3
TH 263	Costume Design I	ta a saidh tan mhaidh dha 1921 a sagain acann ad pophal a shagail, shiidhar bhacal an dagaing an to a togain ann an	3
<u>TH 264</u>	Lighting Design for the Theatre I	00 Krishbak Garasa Asaman kanan makanan sapat maganis sagan sasa sagan sagan kangga kalagga sa sagan sagan saga	3
TH 266	Digital Media Design for Live Performance I	kaali halaahilikkuuri oo ahaa jaanaya, kaassa kii qajajajajaaja, aalis oo gay ka jaagaagaa, joks ii saa jaa wa	3
<u>TH-269</u>	Theatrical Makeup	The Control of the Co	3-
TH 265	Set Design I		3
TH 275	Self-Scripting and Performance Workshop		3
TH 286	Theatre Practicum II		1
TH 292 ¹	Design and Technology Seminar		2
Biological and Physical Sciences		3A	3
Historical Perspectives		3D	3
Elective			<u>3</u>
		Total Credits	30
JUNIOR			

CO 301A	Writing in the Disciplines: Arts and Humanities (GT-CO3)	2	3
TH-292 [†]	Design and Technology Seminar	kanda 1996-an i Shahi'ni Parki Addistrina Bakanda 1995 aa Bakandi haaliy Aliffiidd addis Arymaad		2 ′
<u>TH-301</u> ²	Theatre Design and Production Special Topics	et ermanisti i mikanisti artor sarra a marandensensa a armon sembra eta para yan		6
Select one course from the follow	ring:	the second converse and convers		
TH 362	Stage Management II	oka kalangan da 1976 okon di 1976 meta 1986 meta 1986 mengamun 1992 meta 1986 mengapapan pengapapan pelapan pe	4A	3
TH 363	Costume Design II	rkegeglesetti ekkilorretti (MIII) ekiloretye i kimi digilorreke giliyok cysa ri vened in	4A	giangement-logisines surpi ellimenti eligerece llogi
TH 364	Lighting Design for the Theatre II	n Tundi dan unin disebendi di dalah di dan unin dan dan dan dan dan dan dan dan dan da	4A	3
<u>TH 365</u>	Advanced Scenic Design	ouwerff for the decision and administrative of the artiflet surface decision for the administrative of the 20 a gardening	4A	3
TH 366	Digital Media Design for Live Performance II	ORBINA POLOBA SEPA ORBINARIO E PORRERE SAMBONIMANA PROCESSA CONTRA	4A	3
TH-370A	Theatre Assistant: Design		100	3
TH 384	Supervised College Teaching		an marian and an armana and an anageman and a second second and a se	3
TH 386	Theatre Practicum III			1
TH 400 ²	Theatre Production Workshop			1
Select one course from the follow	ing:		Am.	
TH 262	Stage Management I	** I service from the first exercise of the second set of the second set of the second		3
TH 263	Costume Design I	i kalenderhoord P. Kores is J. Westerhoussen A. editer servicus verdenss verdenss verdenss verdenss verdenss v		3
TH 264	Lighting Design for the Theatre I	on ik verili ili oo ola areenna vark verili overeeli englaak vaan muuri vark vaa oo ola oo ola oo oo ola oo oo		3
TH 265	Set Design I	trans determinations Mountainhales in himosphericanismes e subtra	mis ray, danny a maran arana di armahamika mine mas a musu a musu di musu pumu anama ili say mar	er risser i rit er telemone e sammen en e
<u>TH 266</u>	Digital Media Design for Live Performance I	i, kryssoficer konskulation (1994 - Libellium monte processor Lukanovic), et li se e Union Se	erroller von veren verbreiten von veren erroller von de de verenteten eller von de de verenteten eller von de Mente	around the contract of the con
TH *** Upper-Division TH Elect	ive			3
Biological and Physical Science	3		3A	4
Global and Cultural Awareness		e del Sue, conhamble di la de 1974 di la del como i 1945 de 1966 en competto de en consento de la consento de l	3E	. The control of the
<u>Elective</u>		e tempogo con la compania de la compania del compania del compania de la compania del la compania de la compania de la compania del la compania de la compania de la compania del la compani	e desperado presente de alta de esta en especia en especia de esta entre en entre en el como de el como de est La como de esta en est	nachadronopolitica
		Total Credits	at til skelet i det tillhelede tilde dem til er i til seldtid fram ett i er i fri har delete dettillbæd	<u>2834</u>
SENIOR		t deue de 1971 - Antonio 1977 de la composition de 1974 de 197	nome (Valuatio) amos (VIII) nome all the felt of the first of an extended from Let 1, 1000 models of about the felt the	
TH-392	Theatre Seminar	n dian'n na managan na anna an anna an an an an an an an	. The control of the	3
TH 370A	Theatre Assistant: Design			3
TH 400 ²	Theatre Production Workshop		AND ALL TO THE COMMENT OF THE COMMEN	2
<u>TH 401</u>	Theatrical Design and Prod Advanced Topics	ad ago agoresendo en los estimados e feriral, agiline envidentil agil artifare entre e garri	ener krommel mel de formet en professionelier de liver geten er de entre kroep melded held mene.	3
Select one course from the follow	ing:			
TH 460	Design Portfolio and Professional Preparation	uden aktilistekkommuneksi ulu milisi 2004 u. s. stati, sook ustaan uda aktimimin (4002-1, u.e. 1-sia milisik	4B,4C	3
TH 471	Capstone in Theatre Practice	edikoro (h. MA) ilaitena, apitumbelekonte edenagar e po (pormer e 1990) po 1991 had 1 voja en dipl	4B,4C	and the proceeding all relatives place to the communication of the state of the communication
TH-484	Supervised College Teaching		_	3
TH 486	Theatre Practicum IV	erkelijke opkreiserkelijke op de stad de gregorijske op stadio stadio kalendere op	the Arthur photo and committee of the Special Committee and Arthur photographs and Arthur p	2
Social and Behavioral Sciences		oodingaanse oo is proporti oo irrino ool issaanna kuuminasi is hiji	3C	3
Electives ³			l sacre userne e ul l'emission service e meno comme comme relationation e e duri	<u>15</u> 12
		Total Credits	and the state of t	31 29

Program Total Credits:

120

- 1 Students should take TH 292 should be taken for 1 credit, two semesters total, each in the freshman, sophomore, and junior years.
- 2 TH 400 should be taken for 1 credit, three semesters total. TH 301 must be taken two semesters, once in the Fall, and once in the Spring, of the junior year.
- 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 Liberal Arts
Department of Music, Theatre, and Dance
BA in Theatre
General Theatre Concentration

Effective Fall 2016

FRESHMAN

		AUCC	CREDITS
Select two one courses from the fol	lowing:		`
ART 100	Introduction to the Visual Arts (GT-AH1)	3B	and the second s
<u>D 110</u>	Understanding Dance (GT-AH1)	$3\mathrm{B}$	a countries distance on the defendance of the de
<u>MU 100</u>	Music Appreciation (GT-AH1)	3	3
CO 150	College Composition (GT-CO2)	1A	3
<u>TH 141</u>	Introduction to Theatre (GT-AH1)	3B	3
Select one from the following:			3
TH 150	Introduction to Performance		3
<u>TH 160</u>	Drawing for the Theatre		3
<u>TH 175</u>	Storytelling		3
TH 161	Technical Theatre: Stagecraft		<u>3</u>
<u>TH 186</u>	Theatre Practicum I		12
TH 192	Freshman Seminar	-	3
Biological and Physical Sciences		3A	3
Mathematics		1B	3
Social and Behavioral Sciences		3C	3
Elective			<u>3</u> 2
	Т	otal Credits	31
SOPHOMORE			
Select one from the following:			
TH 151	Acting I		3
<u>TH-161</u>	Technical Theatre: Stagecraft	**	
<u>TH 241</u>	Text Analysis for the Theatre	1 140	3
T 1 2 2 4 2	Theatre History I		3

		g skalangelina kalif (* 18 julius kalif (* 18 juliu	
	courses for a minimum of 6 credits:		6
<u>TH 249</u>	Movement for Actors II		
TH 250	Voice and Speech for the Stage		
TH 255	Directing Workshop		3
TH 260	Computer Assisted Drafting for Theatre	**	3
Select one course of the following:		aktions, a generalities in various kirksyn om kirksyn yn de trikkelinde (C) aktivialities beskrif 1900 beskrif en de ee'r 1915 de trikkelinde (C) aktivialities beskrif 1900 beskrif en de ee'r 1915 de trikkelinde (C)	gikefillende jan f. 1 f. Spiri waka jani fakujanjah fiji janikanak jilladi bar, kan
TH 262	Stage Management I	ng panggang sa	3
TH 263	Costume Design I		3
TH 264	Lighting Design for the Theatre I	makatan ka 1, para fingalamangan managan para (2, ng managan pangangan ga jara managan managan an sangan sa sa	3
TH 265	Set Design I		3
<u>TH 266</u>	Digital Media Design for Live Performance I		3
<u>TH 275</u>	Self-Scripting and Performance Workshop	-	3-
Select one of the following courses	not taken elsewhere:	din	3
<u>TH-251</u>	Acting II	-	
TH 255	Directing Workshop		-
TH 261	Drawing and Drafting for the Theatre		announcement process and one of the control of the
TH-275	Self-Scripting and Performance Workshop	re-paint valence no as empression et al. i sant valendament autremobiliser et part committee	
TH 286	Theatre Practicum II	ив стиме то непоставлен по съвершения в се посменения на посменения в посменения в посменения в посменения в п	1
Advanced Writing		2	3
Biological and Physical Sciences		3A	4
Global and Cultural Awareness		3E	3
Historical Perspectives		3D	3
Social and Behavioral Sciences		3.0	3
	Total Cr	edits	. 32
JUNIOR			engang tengan af Silaya bid perfungsi fipun dipidah Pelidika Albaha Albahan era a si
TH 243	Theatre History II	de find, in the window hit is, the second given the behavior and and sould have been seen discussed to consider given a fin	3
Select one course from the following	10:	elektrologische der State der State (der State von der Amerika von der Amerika (der State von Amerika der State -	3
TH-351	Acting III	antanan tahungkantanan ara-ara-ara-ara-ara-ara-ara-ara-ara-ara	
Select one course from the following	ng:	*	
TH 355	Directing Seminar	44	3
TH 375	Playwright's Workshop	4A	notacentes de result del que antaré tras mate tilistères directions des institues de la companya del companya del companya de la companya del la companya de
TH-362	Stage Management II	4A	
TH-363	Costume Design II		
TH-364	Lighting Design for the Theatre II	44	egypprocesses sementale i siddentare promise and
TH-365	Advanced Scenic Design	44	
TH-366	Digital Media Design for Live Performance H	4A	
Select one course from the following		W	

		olympia maan ayaayadayada, maada oo ah	
<u>TH 251</u>	Acting II		3
TH 344	Dramaturgy Protocol Seminar		<u>3</u> .
TH 355	Directing Seminar	$rac{4A}{}$	3
TH 375	Playwright's Workshop	<u>4A</u>	<u></u>
TH 386	Theatre Practicum III		1
TH *** Upper-division TH-I	Hectives	may katana k Tan	galatahan (5,000,000,000,000,000,000,000,000,000,0
Arts and Humanities		$^{3\mathrm{B}}$	3
TH 400 ¹	Theatre Production Workshop		2
Historical Perspectives		<u>3D</u>	3
Electives		in de en meter melleseele soor leer a mension automobilisen in omer tea volt madigenomiseen dies on over	15++
	Total Cr	·edits	30
SENIOR		et met de deuts en men militar i mant modigant most men oft verdiene, vin de Arthritische and Schauf followithete Ar	kural of Editor dans vida beralahasa serrappa (MA) (Pilapeleon-landisch of America
Select one course from the fo	ollowing:	takirinte e till stekke till et det skræligere i hand skræligere i retter i hand skræligere fragtere klæliger -	3-4
TH 400 ¹	Theatre Production Workshop	gos plane i diga mengenera (gasandi essali k. p. planipina plane plane ingere, anti bibangan menindaka P	1
Select one course from of the	e following:		
TH 450	Professional Actor Preparation	4B	3
<u>TH-455</u>	Advanced Directing	4 B,4C	3
TH 460	Design Portfolio and Professional Preparation	4B	3
TH 471	Capstone in Theatre Practice	4C	3
<u>TH-475</u>	Advanced Playwriting	4 B.4C	
<u>TH-499</u>	Theatre Thesis	4 B,4C	
TH *** Upper-division TH I	Electives	торго учений и по по по подет по дост по постоя по	9
Electives [‡]		remainded a come code code code of a segment of an electric code of a code o	17-18
Select one course from the fo	ollowing:		
TH 401	Theatrical Design and Prod Advanced Topics	and diversions, among me information and distributed by a first state of the distributed from a mediter apparentment is a management of the distributed from the distributed from a mediter apparentment is a management of the distributed from	and representation of the comment of
TH 451	Advanced Topics in Acting	gan and a second a	
Electives ²		-	17
	Total Cr	·edits	27
	Program Total Credits:	The second section of the second seco	120

^{1 &}lt;u>TH 400 should be taken for 1 credit, three semesters total.</u> 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).

² 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).





BA in Theatre Performance Concentration

FRESHMAN	١	
----------	---	--

		AUCC	CREDITS
<u>CO 150</u>	College Composition (GT-CO2)	1A	
Select one from the following	2:	ment of the contract of the co	
<u>D-120A</u>	Dance Techniques 1: Modern		
<u>D-120B</u>	Dance Techniques I: Ballet		
<u>TH141</u>	Introduction to Theatre (GT-AHI)	$^{3\mathrm{B}}$	and the state of t
Select two courses from the f	following:	~	
ART 100	Introduction to the Visual Arts (GT-AH1)	3B	3
D 110	Understanding Dance (GT-AH1)	$^{3\mathrm{B}}_{\mathrm{materior}}$	ar / a destruction as common accommission on the common accommission and accommission and accommission and accommission accommission and accommission accommissio
MU 100	Music Appreciation (GT-AH1)	<u>3B</u>	3
TH 150	Introduction to Performance		
TH 151	Acting I		, data anaerieko () ero arristako europea al (ero da el sirello
<u>TH-153</u>	Singing for Actors I	the relatives and the second problems of should resident supplies and should recognize the second supplies and	oggjul 17-017 mil vermet heleverskipe visiter-visiter visiternisterne); visite i visiteskipitet sit.
TH 161	Technical Theatre: Stagecraft	Mills gardenness (Andr. 1 p. odnik 14° per sil careforded Nilsondid regions (Arch.	gg) i s ^{art} erina (1965), mala penamenakan enemala penamenakan penamenakan (1967), malahan (1967), mala penamenakan enemala penamenakan penamenakan (1967), mala penamenakan p
<u>TH-175</u>	Storytelling	episadelija ti transministrajita ja na pahagi patemanilajit dankaj ja Min	elit ki kamuningan kalabat sakkan di sankan mekan melah sankan sakkan sakkan sakkan sakkan sakkan sakkan sakka
TH 186	Theatre Practicum I	er eg i 1997 Se addissad for fastilleten had stephenske addissadeling	
Biological and Physical Sci	ences	3A	and action (Arthur action them to the Arthur
TH 192	Freshman Seminar	early province of the first province and the second section of the section o	terpological (not the contract of the contract
Mathematics		1B	Specimentary, and the establishment of the second state of the sec
<u>Electives</u>		e de artigue, e en 18 ° e quest en far motte en artigues de artigues de artigues de artigues de artigues de ar Mais	untradicional Printed State Control on State Control of the Contro
	Total Credits	yanda a Partigi sadda samasandan abbadi di Qibi yandda didagila si ddib diginal	<u>31</u> 3
SOPHOMORE		والمهران ومثال المستحد المستحد المستحدث والمستحدث والمتحدث والمتحدث والمستحدث والمتحدث والمستحدث والمتحدث	for dynamical in the first common death to an familiar teacher of firm and the latest teacher and the action
<u>CO 301A</u>	Writing in the Disciplines: Arts and Humanities (GT-CO3)	2	
TH 240	Reading Shakespeare for the Theatre		the wild (1 days a cold) and handley, this produces (an include the hypothesis or yithe
TH 241	Text Analysis for the Theatre		
TH 242	Theatre History I	e a province outrapies designer (1992), qui e é companière qui escribus	magaya di maran a kanagana agaga ka agaman Agasaya a ang ina pagaman Agasaya i sa ka a a a a
TH 243	Theatre History II	And the experience of special polynomial problems and the special polynomial	consequential and analysis will be writted as the substitute of th
TH 250	Voice and Speech for the Stage	ggypta for i trynnight fyr 1911 far y generalgeneft hefynio genylefyri'i farini	operat in transa a mana osa mana talanina en caba i osa a con a con esta mano transa en caba Z
TH 251	Acting II	Color and an experimental	endersakanduskanderrinaskanderrinaks, den minde kelemed er och del handerlinds den men
TH-253	Singing for Actors II	tuden linear) verifieldereits ell kild eine verifielderfrend ist ermanner feder els energie	engelere demokratik (eler eksemblek) (ele eksemblek) eksemblek eksemblek (eler eksemblek) eksemblek eksemblek
TH-275	Self-Scripting and Performance Workshop	ommilletteretti (h. 20-10) kommenseleni erdestili ilini oleretti ilinimiksi ilinimiksi ilinimiksi ilinimiksi il	ng gand gallandigantija in i banya. Projem dy shandag, gript gyggdalantiji i in addisiabalan
TH 286	Theatre Practicum II	myddyr C, fe'n y Yng Jang o'il o'i crwendlaw, drog gaell i'i gwr digyn (ff. 1966) felidiaeantallawd	
Arts and Humanities		3B	оци, ут от уродохура устанору, а од отда построиваралет изва-а
TH 255	Directing Workshop	$b = + 10 \pm 0.00 \times 10^{-10.00} delived deep converses a solved with the associated of a 100 to 1$	e principalismo, publica distributa a compressión de desenvolves d



Biological and Physical Scien	ces	3.4	73
Elective		der Philadelessen und ermonemische State und er men und vollen gestellt und des jahre und des deutschen der der de	3
		Total Credits	32
JUNIOR			ti a caladi senanna a anamat reguer selentromo a nel resono
<u>TH 269</u>	Theatrical Makeup		3
<u>TH 343</u>	Contemporary Plays and Alternative Theatre		3
<u>TH-349</u>	Movement for Actors III	render en en render de la companya del la companya de la companya del la companya de la companya	2
TH 350	Classical Text	n sama 60 minus and in reminime and in on a malarapine about an for Andrina problem, problems about a silver i	3
Select one course from the follo	owing:		12.00
TH 344	Dramaturgy Protocol Seminar	m op in terretories, neter daa vellender in de redakse produktelike konstant diese velkearde daar velkearde da Het in terretories, neter daar velkende velkearde produktelike konstant die velkearde daar velkearde daarde da	3
TH 375	Playwright's Workshop	44	3
Select one course from the follow	owing:	***	
<u>TH 351</u>	Acting III	or the contract of the state o	- Company of the Comp
TH 355	Directing Seminar		The second secon
TH 386	Theatre Practicum III		1
TH-392	Theatre-Seminar	ar for the desired managers are desired and all the second and the	marm/solo fomelmarmovna si un sasseri
TH 400 ¹	Theatre Production Workshop	w	_1
Global and Cultural Awaren	ess	3E	
Historical Perspectives		3D	to form the Parallel Country or Control of the State of t
Elective		NOTICE ALTO BOTH AND THE CONTROL WAS ARRESTED BY A COMMAND AND THE CONTROL AND	123
		Total Credits	29
SENIOR	Charles in Districts a control of the control of th	a nakana na nakana nakana nakana na nakana nakana nakana na nakana na nakana na na na nakana na pipa ka t	
<u>TH-449</u>	Commedia and Masks		2
TH 400 ¹	Theatre Production Workshop	4 Auto-makulamannin A timilifinan kilanduri su dukelimunaha alikulu summi immerana kinusandi terribusa aliku su kensa s	
<u>TH 450</u>	Professional Actor Preparation	48,40	reconstitute destinativat en
TH 451 ⁺	Advanced Topics in Acting	e publikante es la la constanta de la companio de la	alit ana, mana di atmanena ani ambanda ani ani ani ani ani ani
<u>TH-492</u>	Theatre Seminar	man afangah (1995) mel (dan dan 1994) ya 1 mbat menjada (dan dan dan dan dan dan dan dan dan dan	
TH 471	Capstone in Theatre Practice	. veus animpe ;	3
Social and Behavioral Science	<u>es</u>	3C	3
Electives ²			<u>1413</u>
		Total Credits	28
	Program Total Credits:	and constrained by an periodical of freedomental models, and freedomental free of the fill	120

^{1 &}lt;u>TH 400 should be taken for 1 credit, three semesters total.</u>Students must take <u>TH 451</u> for two semesters, for three credits each time, and for different topics.

² 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 Liberal Arts
Department of Philosophy
BA in Philosophy
General Philosophy Concentration

Effective Fall 2016

Students are required to receive at least a C- (1.670) in each Philosophy course required for the <u>concentration in General Philosophy</u>. major or minor in Philosophy. The minimum scholastic average acceptable for graduation is 2.000 computed only for courses attempted at CSU.

		AUCC	CREDITS
CO 150	College Composition (GT-CO2)	14	Nga kanawa na manami salahasa masah andikanawa Am
Select one from the following:		nervica. Inflyation salven gyvens en la rennersiant i s. nervicashes sene vens.	operaturante e alias e consecuidor en como su esta e en desenval de la consecuido e e en el consecuido e e en e El consecuido e en el consecuido e
<u>PHIL 100</u>	Appreciation of Philosophy (GT-AH3)	3B	t Superior will be be some supplier. If no light is been freely a conflict over root is constituted by the conflict ove
PHIL 103	Moral and Social Problems (GT-AH3)	all submanification at a recommendation to the supplier of the	e ser veneden forst ser kelt om en enemyet her er henselvelt i smedned
Select one from the following:		koh na uzempandeka hima e zemen 1,00° ali, in uze hali fan zenadi. Prem zemantilank ali, in miliha jen	akenning verkijns, op opged 2000 of een eelderspelang til did 200 keel virk geneer. As is lande
<u>РНН- 120</u>	History and Philosophy of Scientific Thought (GT-AH3)	3B	matelien die demokratieren voor verbrijvele dit ja verbrijvele die verbrijvele die verbrijvele die verbrijvele
PHIL 170	World Philosophies (GT-AH3)	3E	erige of the secure are a secure diffusion from the first three distributions and the first three distributions and the first three distributions are secured as the first three distributions and the first three distributions are secured as the fi
<u>PHIL-110</u>	Logic and Critical Thinking (GT-AH3)	3B	agic anticological control of the co
Biological and Physical Science	<u>s</u>	3	der von er op verdigegeg perioder sperioder speriod have Deputies besteht in
Arts and Humanities		<u>3B</u>	Transcored Control Control (Control (Co
Historical Perspectives		3D	
<u>Mathematics</u>		1B	Agricuments - comment of the Agricum and Agricum and Agricum and Agricum and Agricum and Agricum and Agricum a - Comment of the Agricum and Agricum
Social and Behavioral Sciences		3C	a gant and annua mhaganta da abhalaganna (1867) a dh'dhachda a sh'anngaladhachdadh a sh'ann gant a shachdadh a B
Elective		ummeteleljagen of folget ledgefolget i geste tra entred for hampetejskelelikkja semetite for e entrette grape met	
PHIL*** Lower-Division Philoso	ophy Elective ¹	- Ogde de Coloquia de de Coloquia de Coloq	and the second s
Electives		manara e consensionem e consensionem e consensionem e consensionem e consensionem e consensionem e consension També	egenetaminetarior trapa e constitución de la consti
e angeles en	Total Cre	dits	3°
SOPHOMORE		e e anamiliana urana communa col subter mener ", e del releve de uranament de e alcumente en el commune	ggy mag e mag traggleg gegrene planeter ellettig fra fra trade et a mag fan fir trade
PHIL 205	Introduction to Ethics	edintegant or part processory on part and principles and processors and account of the processors and the pr	end, este ende entremisionerei Sunte von entre entremis en
PHIL 206	Knowledge and Existence-An Introduction	ordening system apparently by require the system is your analysis of the first interest decimination.	and the state of t
PHIL 210	Introduction to Formal Logic	е устройць волог, рото учет ут то шевает учетнятельності. Учеті гото чёт селе ч	result freedom removers in 60% word pass of the a surface American Cold.
PHIL*** Philosophy Elective		gyptydd ywyg ffairiol i Chwychan chag. C y ffairiaeth ffairio at chaelloddiaeth ar arthail Mae	anu amini ara an ara dan amanana ama da da Amana Amana amanana da
Advanced Writing		2	oper's as motifications and retirement expenses this is a secretiment and demonstration.
Arts and Humanities		a for responsible production of the contraction of	ing an a such distribution to the American design and distribution and distributions are designed as a second distribution and distribution are designed as a second distribution and distribution are designed as a second distribution are
Global and Cultural Awarenes	5	3E	
Electives		in der vertretten der vertrette der der vertrette der der der der der der der der der de	<u>13</u> 4
	Total Cre	dits	3



PHIL 300	Ancient Greek Philosophy	4A	3
PHIL 301	17th and 18th Century European Philosophy	4A	3
Select one course from	the following:		
PHIL 170	World Philosophies (GT-AH3)	3E	3
PHIL 335	Islam: Cosmology and Practice	and the second section is a second section of the second section of the second second second section is a second s	3
PHIL 349	Philosophies of East Asia	anderson som graft (fig) of a displace of figure (figure) and property (fig.), a dissiplace of an electric for any contract of the figure (figure) and fi	3
PHIL 353	Feminist Philosophies	Al Coloring philos an Disputationary (comments) and Coloring Coloring and public and depth and philosophy and p	_3
PHIL 360	Topics in Asian Philosophy	er Agenstalleder ig den som 19 til gegret fræmen og styde fre organism om 2 1 gerekt pela er i grengsfrjalleder (og siglighet av fjersom som de sig 	_3
PHIL 455	Islamic Philosophy	TV TV strike kontras fligt fraglynning at f. a. eksemplemenning judgingen in Jacques Ajenia (1994) gang annip 2000-kebang pad	3
PHIL*** Upper-Divisi	on Philosophy Elective ²		3
Electives			<u>18</u> 21
	Total C	Credits	30
	Constant Saminar	4D 4C	2
PHIL 462	Capstone Seminar the following:	4B,4C	3
PH11. 462 Select one course from		4B,4C	3
PHIL 462 Select one course from PHIL 302	the following:	4B,4C - -	
PHIL 462 Select one course from PHIL 302 PHIL 409	the following: 19th Century Philosophy	4B,4C	-3
PHIL 462 Select one course from PHIL 302 PHIL 409 PHIL 315	the following: 19th Century Philosophy 20th Century Philosophy	4B,4C	- 3
SENIOR PHIL 462 Select one course from PHIL 302 PHIL 409 PHIL 315 PHIL 325 PHIL 425	the following: 19th Century Philosophy 20th Century Philosophy Philosophy of Language	4B,4C - - -	-3 - 3
PHIL 462 Select one course from PHIL 302 PHIL 409 PHIL 315 PHIL 325	the following: 19th Century Philosophy 20th Century Philosophy Philosophy of Language Philosophy of Natural Science	4B,4C	-3 -3 -3 -3
PHIL 462 Select one course from PHIL 302 PHIL 409 PHIL 315 PHIL 325 PHIL 425	the following: 19th Century Philosophy 20th Century Philosophy Philosophy of Language Philosophy of Natural Science Epistemology	4B,4C	-3 -3 -3 -3 -3
PHIL 462 Select one course from PHIL 302 PHIL 409 PHIL 315 PHIL 325 PHIL 425 PHIL 435 PHIL 447	the following: 19th Century Philosophy 20th Century Philosophy Philosophy of Language Philosophy of Natural Science Epistemology Metaphysics	4B,4C	3 3 3 3 3
PHIL 462 Select one course from PHIL 302 PHIL 409 PHIL 315 PHIL 325 PHIL 425 PHIL 435 PHIL 437 PHIL 438	the following: 19th Century Philosophy 20th Century Philosophy Philosophy of Language Philosophy of Natural Science Epistemology Metaphysics Ethical Theory	4B,4C	3 3 3 3 3 3 3
PHIL 462 Select one course from PHIL 302 PHIL 409 PHIL 315 PHIL 325 PHIL 425 PHIL 435 PHIL 437 PHIL 438	the following: 19th Century Philosophy 20th Century Philosophy Philosophy of Language Philosophy of Natural Science Epistemology Metaphysics Ethical Theory Philosophy of Mind	4B,4C	3 3 3 3 3 3

No more than 6 PHIL credits at the 100-level may be applied toward the major. Select enough elective credits to bring the program total to 120, of which at least 42 must be Upper-Division (300- to 400-level).

Program Total Credits:

- 2 At least 6 PHIL credits must be at the 400-level.
- 3 Select enough elective credits to bring the program total to 120, of which at least 42 must be Upper-Division (300- to 400-level).



College of Liberal Arts
Department of Philosophy
BA in Philosophy
Global Philosophies Philosophy and Religions Concentration

120



Students are required to receive at least a C- (1.670) in each Philosophy course required for the <u>concentration</u> in <u>Global Philosophies and Religions</u> major or minor in <u>Philosophy</u>. The minimum scholastic average acceptable for graduation is 2.000 computed only for courses attempted at CSU.

FRESHMAN				
	,	AU	CC	CREDITS
<u>CO 150</u>	College Composition (GT-CO2)	1A		3
PHIL 110	Logic and Critical Thinking (GT-AH3)	3B		3
PHIL 170	World Philosophies (GT-AH3)	315	Color bandonina y P. Oberlahir -	3
PHH- 171	Religions of the West	et to a visition in the event of the control of the event of the control of the event of the eve	- 13004-10-00-00-4-40-00-00-00-00-00-00-00-00-00-	3
PHIL 172	Religions of the East			3
Arts and Humanities		3B		3
Biological and Physical S	ciences	3A	4-18-18-18-18-18-18-18-18-18-18-18-18-18-	7
Historical Perspectives		3D		3
Mathematics		1B		3
PHIL*** Lower-Division	Philosophy Electives ¹		procedure on P [*] hadron developments on 10	<u>6</u>
Electives		una palat pilat di distanta de completa desta (1905) (por palat plane) palat di pang di pang pilat pang pilat p I	er Combinations, empere e abrasiene	<u>6</u>
e in the state of months of the contribution of membership approximation of the complement		Total Credits	may's have yeaps a people "years"(s)	31
SOPHOMORE		and of the control of	esterelle (10 cm), e formeene c	Massa, e species promonente compressor commente i men memor del media de la leve de la compressor del media del compressor del media del compressor del comp
Select one course from the	following:			
PHIL 205	Introduction to Ethics	kama repopulat arri sertiman remai a la leger tradici manan kao zipartena auwa zineka Ludiki e irapan kirawa k Tanan remai kaman kaman kaman kirawa kirawa kirawa kao zipartena a auwa zineka Ludiki e irapan kirawa kirawa k		3
PHH-206	Knowledge and Existence-An Introduction	The control of the co		3
PHIII, 110	Logic and Critical Thinking (GT-AH3)	<u>3B</u>		3
PHIL 210	Introduction to Formal Logic	mm. migraf, m. it. vides (1902) migraf, m. m. is so it addressed media per faces field interesting m. migramus abstraction of persons.		3
PHIL 270	Issues in the Study of Religion	-		3
Advanced Writing		2		3
Arts and Humanities		<u>3B</u>		3
Social and Behavioral Sci	ences	3C		3
PHIL*** Philosophy Elect	<u>ives</u>	mer till 30 och 1 fra dill för ocksådels i till dipsyndistra å sold frankland (symmetre til krimter), skall, utvik (symmetrikala), skall utvik		6
Electives				1245
The control of the co		Total Credits		30
JUNIOR			ac	and an an analysis of spilling applications of a children properties and applications, applications, applications, applications, and applications are applications and applications and applications are applications are applications and applicati
PHIL 300	Ancient Greek Philosophy	4A		3
PHIL 301	17th and 18th Century European Philosophy	4		3
Select two one courses from	n the following:			
PHIL 270	Issues in the Study of Religion	emen in angular (ga manufu andanahahar (1950 a a a a a a a a a a a a a a a a a a a	na yan ingan kulonda kulong kulong pingan kulong pingan kulong pingan kulong pingan kulong pingan kulong pinga	3
PHIL 335	Islam: Cosmology and Practice	centrative diseases of grains or selected drags or a selection of association of any extrategeory ages, manufactured and any or selection of association of		3
PHIL 355	Philosophy of Religion			3
PHIL 370	Contemporary Western Religious Thought			3

PHIL 372	Meaning and Truth in Religion		3
PHIL 375	Science and Religion		3
Select one course from	1 the following:	-	3
PHIL 349	Philosophies of East Asia		000 Y - 000 000 000 C 00
PHIL 360	Topics in Asian Philosophy		
<u>PHIL 371</u>	Contemporary Eastern Religious Thought	•	
PHIL 379	Mysticism East and West		
PHIL 463	Seminar in Religious Studies	er en	3
Electives [‡]		make an index and the control of the	16
		Total Credits	28
SENIOR		in terrence of the manufacture (A. E. Hall conserve in the care of any or experience of the manufacture and the experience of the experien	energianis galekilga ili 1900-leneti, altimati ki pat jung ti, i i judi sengi
Select one from the fo	llowing:		3
PHIL 425	Epistemology	An Angelescone Consistence (Linguistic Constitution of Constitution of Constitution Cons	
PHIL 435	Metaphysics	тепенновать развишим выправления становах и изментновательного положения то станова обявления и навышения отности	a ce e a company de management de met mente carris, possi, e que
Select one course from	the following:	тичности по достигности по водинення в под вод В под водинення в под в п	3
PHIL 447	Ethical Theory	Transaction and the control of the c	er ette, ja ja neurooninen en noonne met ja oonne jake a
Select two courses fro	m the following:	-	
PHIL 349	Philosophies of East Asia		3
PHIL 360	Topics in Asian Philosophy	And the second section of the second section s	3
PHIL 371	Contemporary Eastern Religious Thought	and the state of the daily and adjusted from the Constitution of the State of the S	3
PHIL 379	Mysticism East and West	and the first term of yorks and all the first and an analysis and the first and the fi	3
PHIL 455	Islamic Philosophy	utte finda fremmensa enikulure sold en sold en sold andere et enikere et enikere et enikere et enikere et enik	3
PHIL 463	Seminar in Religious Studies		-3
PHIL 462	Capstone Seminar	4B,4C	3
Electives ²⁺			22
		Total Credits	31
and the supplementary of the state of the st	Program Total Credits:	CONTRACTOR CONT	120

¹ A maximum of 9 PHIL credit hours at the 100-level may be applied toward the major. Select enough elective credits to bring the program total to 120, of which at least 42 must be Upper-Division (300- to 400-level).

² Select enough elective credits to bring the program total to 120, of which at least 42 must be Upper-Division (300- to 400-level).



Effective Fall 2016

College of Liberal Arts
Department of Philosophy
BA in Philosophy
Philosophy, Science, and Technology Concentration

Students are required to receive at least a C- (1.670) in each Philosophy course required for the <u>concentration</u> in Philosophy. Science, and <u>Technology</u> major or minor in Philosophy. The minimum scholastic average acceptable for graduation is 2.000 computed only for courses attempted at CSU.

FRESHMAN



			AUCC	CREDITS
<u>CO 150</u>	College Composition (GT-CO2)		1 A	3
PHIL 110	Logic and Critical Thinking (GT-AH3)	promote descripto del model di formazione nel cerci e con e de l'escripto e l'escripto del model del model del	3B	3
PHIL 120	History and Philosophy of Scientific Thought	(GT-AH3)	3B	3
Biological and Physical Sci	ences	er o er ein ein ein er oarreg het hadde siel door er en stadenberg speeingebende oor gewegen.	3A	7
Historical Perspectives			3D	3
Mathematics		n - Yorkhan nakkyyst aasta' y yjili andirostataan romani hitery y to talagaskyssage a saloojuly	1B	3
PHIL*** Lower-division Ph	ilosophy Elective ¹		en e	<u>3</u>
Electives				9
		Total Credits		31
SOPHOMORE				
PHIL 205	Introduction to Ethics	kraf yark alkunin an Shara iyin dalamin dalgari Khara Shiriyan iyayan iyaya yaki yakiyada kiriya yarara		3
PHIL 206	Knowledge and Existence An Introduction	en e	en periode en	3
PHIL 210	Introduction to Formal Logic	Pod ottavio i i i Pod attavio da Periodo da America partire (gip del de cinado de co.) 2		and any totally a set of the assembly appropriate for a telescope, assembly appropriate for the second seco
Science and Technology Ele	ctive ^t		and the supplementary of the s	3
Advanced Writing			2	3
Arts and Humanities			3B	3
Global and Cultural Awar	eness		3E	3
Social and Behavioral Scie	<u>nces</u>		3C	3
PHIL*** Philosophy Electiv	<u>'es²</u>		wis	<u>6</u>
Electives		үү тэм нь ууш оны организация онын төөсүү нь орган барын орган бүй орг уулгаар төргүү нь	an i angght ang katan i i gagiti a paman i i atangka pinahantan, in aligawah tapana in	9
		Total Credits	ettimooni attavoi giigoji Vi Vijoo e Ani Anijoo, Viilia Toooni yo oli aana ka aadigaa	30
JUNIOR				
PHIL 300	Ancient Greek Philosophy		4A	The second of th
PHIL 301	17th and 18th Century European Philosophy	O NOTAL THE SOUL OF SOUL POSSES AND THE SOURT HER SOUL SOUTH OF THE SOUL SOUL AND	4A	3
Select one course from the fe	ollowing:			
PHIL 325	Philosophy of Natural Science			3
PHIL 327	Philosophy of Behavioral Sciences			3
Select one from the followin	g:	and a first of the first standard commitment of a marginers and water for first for the first of		3
PHIL-345	Environmental Ethics			
<u>PHIL 375</u>	Science and Religion			
PHIL*** Upper-Division Pl	nilosophy Elective ³	s and the second	ANO	3
Electives		a akibida ka sa 1998an guna an sa akibinin sa akibinin a akibinin sa nakibin sa akibin sa sa katibin sa sa kat		17
and the second		Total Credits		29
SENIOR				

	Total Credits Program Total Credits:	enga, shari gel Phinamagaalhaaddiisalaalad ah oo 557 bibli da aashaasha	30 120
Electives 42			2145
PHIL 462	Capstone Seminar	4B,4C	3
PHIL 447	Ethical Theory	NA	3
PHIL 350	Social and Political Philosophy		3
PHIL 345	Environmental Ethics		
PHIL 330	Agricultural and Food System Ethics	and the state of t	3
PHIL 320	Ethics of Sustainability	an agus ann an t-a thaige aigh ghrìomh air ghrìomh air ghrìomh ann an aigh air ann aigh air an t-an-aigh ainmi '' ''	adamin'ny fivondronan'i dia mandritra ny faritra ao
PHIL 305G	Philosophical Issues in the Professions: Research Ethics	and the second s	
PHIL 305F	Philosophical Issues in the Professions: Information Science	enn, renumble in in it is kunsindelt elementeer the en internacional met use	Comment and Cale any appropriation and Cale are a common and a super- graphic and Cale and Ca
PHIL 305E	Philosophical Issues in the Professions: Animal Science	Zoneje – z zemsukala samuneberlemen-removedendirbeid, Voljpasankus sva nem	na nadi bari inani, er baname eserta, dan da santa 3
PHIL 305D	Philosophical Issues in the Professions: Engineering	adit de médi sus il remolabendo mides removes professori la missori successori. Me	and the second s
PHIL 305C	Philosophical Issues in the Professions: Caring Professions	Creer v. et i silvadopore esso de en relivadormente en recoper en elemento en rec Mais	t destroire dus, com colois coloure describer a
PHIL 305B	Philosophical Issues in the Professions; Medical Life Science	er har ver er fort for a Frank unberdindere har en, vilok ver formfort en en van verel formet de seu vere vere An en verel fort for a Frank unberdindere har en, vilok verel formfort en en verel formet de seu verel formet	3
PHIL 305A	Philosophical Issues in the Professions: Business Ethics	ekindekiloran dan ndan ndan kenali zitandi orasal Xindan Silmid Silmid Silmid Silmid Silmid Silmid Silmid Silmid Tanan salah sa	nationing consists to an artist the second consists and the second consists of the second c
PHIL 205	Introduction to Ethics	, sergesimmer melniskamiske i han i mer i sambalasken sid denkelet et em fre agter sakmen bri energie	3
Select one course from	the following:		
PHIL 438	Philosophy of Mind	ten grunden den den den de kompleten den de	3
PHIL 435	Metaphysics		3
PHIL 425	Epistemology	MARIE Andrew Arthur School School School School School School Andrew Arthur Art	3
PHIL 415	Logic and Scientific Method	teneral come demonstra (La moral personal properties from the form demonstration of the second section of the section of	3
PHIL 411	Formal Tools in Philosophy	gang mati Piliri ana mati ngawakan, mangan fiyo (pafanagaman fiyo akan gatib Afrikagaya, kan ga	3
PHIL 410	Formal Logic		
PHIL 315	Philosophy of Language		
PHIL 409	20th Century Philosophy		-3

- A maximum of 9 PHIL credit hours at the 100-level may be applied toward the major. Three credits in addition to the All-University Core Curriculum (AUCC) science requirement. Course must be in the College of Natural Sciences or the College of Engineering.
- ² A minimum of 18 PHIL credit hours must be at the 300-level or higher. Select enough elective credits to bring the program total to 120, of which at least 42 must be Upper-Division (300 to 400-level).
- 3 A minimum of 6 PHIL credit hours must be at the 400-level or higher.
- 4 Select enough elective credits to bring the program total to 120, of which at least 42 must be Upper-Division (300- to 400-level).





Global Tourism Concentration

FRESHMAN			con complete con compressión compressión de la consequencia en con-
		AUCC	CREDITS
<u>CO 150</u>	College Composition (GT-CO2)	1A	3
ECON 202	Principles of Microeconomics (GT-SS1)	3C	3
Select one of the following:		in the second the second the second s	edifferential common del trade de la companya de l
L*** 107 First Year Language II			5
L*** 108 Intensive Language I			5
MATH 117	College Algebra in Context I (GT-MA1)	1B	1
MATH 118	College Algebra in Context II (GT-MA1)	1B	1
MATH 124	Logarithmic and Exponential Functions (GT-MA1)	1B	1
<u>NR 120A</u> or <u>120B</u>	Environmental Conservation (GT-SC2) Environmental Conservation	3A	3-4
SPCM 200	Public Speaking		3
Arts and Humanities		3B	3
Biological and Physical Sciences		3A	7
Elective		mmahaden hat Tager for Laurenbarn Hadenoor - Passisheri -	
	Total Credits	The Control of the Co	31-32
SOPHOMORE			
ACT 205	Fundamentals of Accounting		
BUS 205	Legal and Ethical Issues in Business	militaria i in Suara umanggar umukan ili mananan iki kana	3
L*** 200 Second Year Language I		orania (n. 1777)	3
L*** 201 Second Year Language II		Commence of the second of the	3
RRM 101	Hospitality Industry	n van der hande eine vermen meere kenne een en een meere de maande een verde een verde een de meere de meere e	3
RRM 200	Hotel Operations	ndivinier i ny tronona 2011 ny minimakao videnoese	3
NRRT 270	Principles of Natural Resource Tourism	elfengel, og gallen i Langensko kangganfonger (sjekonge	3
STAT 201	General Statistics		3
Arts and Humanities		3B	3
The second of th	Total Credits	en anno en la companiente de la companiente del companiente de la	27
JUNIOR			
Select one course from the following	<u> </u>		***************************************
<u>CO 300</u>	Writing Arguments (GT-CO3)	2	3
<u>CO 301A</u>	Writing in the Disciplines: Arts and Humanities (GT-CO3)	2	3
<u>CO 301B</u>	Writing in the Disciplines: Sciences (GT-CO3)	2	
<u>CO 301C</u>	Writing in the Disciplines: Social Sciences (GT-CO3)	2	3
<u>CO 301D</u>	Writing in the Disciplines: Education (GT-CO3)	2	3
JTC 300	Professional and Technical Communication (GT-CO3)	2	engapouse ensusementales handerna variera de la Communicación de l

*	Program Total Credits:	The second second was channelly and next a manifest make by \$1.5 (\$2.5) (\$2.5) deephang appears	120-12
1		Total Credits	30-3
Upper-division language electives			5-1
RRM 350	Restaurant and Resort Marketing	et samme en en sammen en saturen statuer en	en kasad selektrin tidassaken na serine tidamike semaka selektrin
NRRT 499	Senior Thesis	e en Malainer de les els authorises des en est et d'ambien en region amodérable Mediciné, armente en en en ent	mit ettimoremistise eliken stationen et Endoren voer di, op 2 deze - 4 en mis
NRRT 487	Internship	martinet interior A.A.A. per Argan contact entre control (1) years to per a real of the martinet interior cont	gildelikarin dirent urtakari edik kirapat kirata a sa
NRRT 471	Starting and Managing Tourism Enterprise	et en gestadd, som the est teid france i serve frankappasistic, derskadere et gestadskept størrete et en	eremon mis Amilian de nationa indica il persolation format il in 190 milion, e molecular
NRRT 470	Tourism Impacts	. 44	udusaaniintees o seeseni oloosus onos 1 seesinneesee
NRRT 442	Tourism Planning	4B,4C	
NR 300	Biological Diversity		en e noble nazioni nerrolatica della cercia e il cine nazioni
MKT 365	International Marketing	н түүлөө жайтын байтын түү байтын байтын түүсө байын байдай байда	
SENIOR	тем подет об ветемонения и польда вытем в воденняем невый вышения выполнения с выполнения с ученения высостыть, выстанавления	entransent translation in a sint transportation of the set action cape also have injudence in any perfection of the section of	
		Total Credits	28-3
Global and Cultural Awareness ¹		. The contradiction is a contradiction from the contradiction of the co	ordinal control of the state of
NRRT 376	Human Dimensions Research and Analysis	mykani ana may ay a sa sa yindaga sa ba dhahan wandibida kada dida dhahan dhidaganda sa dhahan dhahan wandibid	erikkenson (s. (s. erikkenson) eta depara mellek, deski a memil sendi biras, dan militagen di selik
NRRT 370	Managing Tourism in the E-Commerce Era	art d. 1954 de destre i i i i i digi diamanda di 1966 terra di Bratis de destri de suanda i i i i i i i i i i i	nde litt menne och rodrittissellerske kalana (v. 16 och vill som vill som vill som vill som vill som vill som v
NRRT 320	International Issues-Recreation and Tourism	men di resonnosimento e e e combinar describiros de como de moner de moner de describiros como de mediancia de como de moner de como d	
NR 387	Internship I	net net consensat is ne francis. L'un social au considerat de la consensat de consensat de consensat de la cons	aust to verificat in dissociations the description for historian energy and de-
NR 320	Natural Resources History and Policy	$^{-1}$	
MKT 305	Fundamentals of Marketing		
MGT 305	Fundamentals of Management		
L*** 335 Issues in Culture			
Select one from the following: L*** 305 Third-Year Language II			
L*** 304 Third-Year Language I			
L*** 300 Reading and Writing for C	Communication		
Select one from the following:		the transfer of the second the second the second the second transfer of the second to the second transfer of the s	a galagan da ara ara arang anda galagan galang paga ga gandi ang arang arang arang arang arang arang arang ara

 $^{^{1}}$ This requirement is automatically satisfied by studying abroad with $\underline{SA~482}$.

Select enough elective credits to bring the program total to 120, of which at least 42 must be Upper-Division (300- to 400-level).



Warner College of Natural Resources
Department of Human Dimensions of Natural Resources
BS in Natural Resource Recreation and Tourism
Natural Resource Tourism Concentration

Effective Fall 2016

FRESHMAN



BUS 150	Business Computing Concepts and Applications		3
The first of the contraction of the first of the first of the first order ord	College Composition (GT-CO2)	e monor of the contract and the second contract and the c	3
CO 150		3C	3
ECON 202	Principles of Microeconomics (GT-SS1)		
MATH 117	College Algebra in Context I (GT-MA1)	1B	
<u>MATH 118</u>	College Algebra in Context II (GT-MA1)	1B	L
MATH 124	Logarithmic and Exponential Functions (GT-MA1)	1B	1
Arts and Humanities		3B	6 Austropia-pepungan era (atrix-no-py-opungan erapen ergina zeranapakan pangoun pangoun pangoun pangoun pangoun p
Biological and Physical Sciences		3A	7
Political Science Elective ¹			3
Guided Elective ¹			2
	Total Cr	edits	30
SOPHOMORE			
ACT 205	Fundamentals of Accounting	agin anaugigi a a a ang masamu paga rang an agun anaum anau an	3
BUS 205	Legal and Ethical Issues in Business		3
NRRT 231	Principles-Parks/Protected Area Management		articonauthranicolomic e anticalianamente ciclomete disconneciation
NRRT 270	Principles of Natural Resource Tourism	имори томонит темпороди доколотор, доколороднику образований томо често образований доколот в 1904 гг.	no aria sense terrenocialmente de considerativa esta esta esta esta esta en esta en esta en esta en esta esta e
RRM 101	Hospitality Industry	ren er seldenn krymade ausermane, men anner vannere krymane er meditene i per excepter er belle er. Sen in	. 3
SPCM 200	Public Speaking	то и на манителников посторивания с то посторивания в посторивания в посторивания в посторивания в посторивания	an common a contract contract contract and contract are constant by a contract to the contract
STAT 201	General Statistics	di generalization i minimization e menor managamente de septembre de communitation e menor e menor ambiente de commu	3
Guided Elective ¹		uu, Andruid, min serve missele Vangemingeneer, sõlimele mambel õhi VII missessimmele mõlimõi mide	6
	Total Cr	•edits	27
JUNIOR			
MGT 305	Fundamentals of Management	o ny kaodimininy kaon-kaôn kaodiminina ny mandritra ny taona na mandritra ao amin'ny faritra dia mandritra ao a	3
MKT 305	Fundamentals of Marketing		uniter o philiphi former annous combinating up a constructing of the described and all the state of the state
Select one course from the following			
JTC 350	Public Relations	un al alumbum ama ama dilibasifisid hala mela helilida kembah sambah sambah disadbesid herbit amah beli	3
NR 400	Public Relations in Natural Resources		3
NR 320	Natural Resources History and Policy	3D	3
NR 387	Internship I	ear war e millioweer nit "tisseelischerischerik kant verennenheurs von it der die moeier in dam tim is e admili	1
NRRT 320	International Issues-Recreation and Tourism	umaken on mandaun 4.5 milyon et skrivingan kanan ommunikarik, akarinken kahil 1996 dan historia da kani	3
NRRT 376	Human Dimensions Research and Analysis	assensiar kannasa sara menambahak admilipsemblip kembilik bekarih dami in 2 kilo Centrik.	3
Advanced Writing		$^{_{\mathrm{adj}}}$	3
Global and Cultural Awareness		3E	3
Guided Electives ¹			6
Guided Electives	Total Cr	·adite	31
CDNHOD	10tal Cr		J1
SENIOR	-	en kan kan kan kan kan kan kan kan kan ka	nouncer representation of the confidence of the
NRRT 330	Social Aspects of Natural Resource Management		3



NRRT 372	Tourism Promotion		3
NRRT 442	Tourism Planning	4B,4C	3
NRRT 460/RRM 460	Event and Conference Planning		3
NRRT 470	Tourism Impacts	4A	3
NRRT 471	Starting and Managing Tourism Enterprise	agent ("an weldigine a met (allign of a digital of a digital of feet of feet (and a second orange) with a met (and a second orange) and a second orange of the feet of feet of feet orange of the feet of feet orange oran	3
NRRT 487	Internship	a respond (in 1.) Anniques (international (international international i	5
Guided Electives ^{1, 2}		kareles, (c), er (ch') ir (demos) in demos) etric yn i'r e-agoleith, awedinedd aesi) elektrolaeth aesil i'r felioldiadd aesil arn di'r felioldiadd aesil arn	9
	Total	Credits	32
t et i in tre entre e out took eel minimen kattero ett etti arealto akko makkin tet titteste tii olt de eel	Program Total Credits:	ELACT (PPETO) - PORTBOR-TANNEL (PETO) - PAPE - C. H.S. AND EDISCA CON-HIP CONTRIBUTOR SMICHING LELECTION ACTION PROCESSION INC.	120

¹ Select from departmental list of approved courses.

² Select enough elective credits to bring the program total to 120, of which at least 42 must be Upper-Division (300- to 400-level).



The meeting adjourned at 5:05 p.m.

(FC) 1/29/16

Carole Makela, Chair Yvonne Bridgeman, Secretary



A regular meeting of the University Curriculum Committee was held on January 29, 2016, at 2:00 p.m.

Members present: Chair Carole Makela, Professors Bradley Goetz, Lauren Long for Paul Mallette, Brad Reisfeld, Mike Hogan, Ed DeLosh, Sally Sutton, Howard Ramsdell, Beth Oehlerts, David Gilkey (IVPUA, ex-officio), Undergraduate representative Tyler Siri.

Curriculum Liaison Specialist: Shelly Ellerby.

Guests: Yvonne Bridgeman, Kelley Brundage, Linda Selkirk.

Absent: Graduate representative Allistair Cook.

Minutes

The Minutes of January 22, 2016 were approved.

Experimental Course Report

Experimental Course Report was received.

Consent Agenda

There was no Consent Agenda, January 1/29/16.

New Courses Effective Date

CS 163 04(3-1-0). Java (CS1) No Prior Programming F, S, SS.

Prerequisite: MATH 124 with a C or better.

Restriction: Must register for lecture and laboratory.

Registration Information: Credit allowed for only one of the following courses: CS 160, CS 163, or CS 164

or CS 164.

Computer programming in Java for students without previous programming experience. Topics include variables, assignment, expressions, operators, booleans, conditionals, characters and strings, control loops, arrays, objects and classes, file input/output, interfaces, recursion, lists, and sorting.

CS 164 04(3-1-0). Java (CS1) Prior Programming F, S.

Prerequisite: MATH 124 with a C or better.

Restriction: Must register for lecture and laboratory.

Registration Information: Credit allowed for only one of the following courses: CS 160, CS 163,

or CS 164.

Computer programming in Java for students with limited programming experience. Problem decomposition for good design; expressions, operators, booleans, conditionals, characters and strings, control loops, arrays, objects and classes, file input/output, interfaces, recursion, lists, and sorting.

ENGR 382A 03(0-0-3). Study Abroad: Grand Challenges in Engineering SS.

Prerequisite: None. Restriction: None.

Registration Information:

Faculty-led study abroad program that includes cultural, language, and engineering instruction. Course will be held at a host institution in China.

Fall 2016

Fall 2016

Summer 2016



Major Change to Curricula

Warner College of Natural Resources Department of Ecosystem Science and Sustainability BS in Watershed Science Effective Fall 2016

FRESHMAN AUCC CREDITS Select one course from the following:

BUS 150	Business Computing Concepts and Applications		3
<u>CS 110</u>	Personal Computing	ermannen filmer (oberfolgen) mit mit de fondolik ver es. 2-a-rit - vere 2 meset erfolgen men net	4
Select one course from	n the following:		
BZ 110 & BZ 111	Principles of Animal Biology (GT-SC2)	3A	3 1
BZ 120	Principles of Plant Biology (GT-SC2)	3A	4
LIFE 102	Attributes of Living Systems (GT-SC1)	3A	4-
LIFE 103 ¹	Biology of Organisms-Animals and Plants		4
Select one group from	the following:		
Group A:			
CHEM 107	Fundamentals of Chemistry (GT-SC2)	3A	4
<u>CHEM 108</u>	Fundamentals of Chemistry Laboratory (GT-SC1)	3A	1
Group B:			
<u>CHEM 111</u>	General Chemistry I (GT-SC2)	3A	4
CHEM 112	General Chemistry Lab I (GT-SC1)	3A	1
<u>CO 150</u>	College Composition (GT-CO2)	1A	3
ESS 130	System Theory and Information Management		1
Select one course from	n the following:		
<u>GEOL 120</u>	Exploring Earth: Physical Geology (GT-SC2)	3A	3
<u>GEOL 122</u>	The Blue Planet: Geology of Our Environment (GT-SC2)	3A	3
GEOL 124	Geology of Natural Resources (GT-SC2)	3A	3
GEOL 150	Physical Geology for Scientists and Engineers	Addressed to a second security of the second security of the second seco	4
Select one course from	n the following:		
MATH 155	Calculus for Biological Scientists I (GT-MA1)	1B	4
MATH 160	Calculus for Physical Scientists I (GT-MA1)	1B	4
Arts and Humanities		3B	3
Global and Cultural	Awareness	3E	3



SOPHOMORE

CO 301B	Writing in the Disciplines: Sciences (GT-CO3)	the second program of the second substitution of the second secon	2	3
<u>JTC 300</u>	Professional and Technical Communication (GT-CO3	B)	2	3
<u>LB 300</u>	Specialized Professional Writing			3
ESS 210/GR 210	Physical Geography			***************************************
<u>GR 304/WR 304</u>	Sustainable Watersheds	***************************************	3A	
Select one course from the followi				
ESS 211	Foundations in Ecosystem Science			3
LIFE 320	Ecology			3
Select one course from the followi	ng:		11/	
MATH 161	Calculus for Physical Scientists II (GT-MA1)		1B	4
MATH 255	Calculus for Biological Scientists II (GT-MA1)		1B	4
NR 322	Introduction to Geographic Information Systems			4
Select one course from the followi	ng:			
PH 121	General Physics I (GT-SC1)		3A	
PH 141	Physics for Scientists and Engineers I (GT-SC1)		3A	
SOCR 240	Introductory Soil Science			
SUMMER		Total Credits		2
NR 220	Natural Resource Ecology and Measurements	ne" Vorabiliti deprimente (in alde hallet felader (ing fay prim = 5 million debrikadere) (in alle million felader).		and place holds of delice-of
men or a support of the support of t		Total Credits		
JUNIOR		er kollandering Versier in 1995 gehalt, og in de skale over 1904 kannet en skale fra de skale fra 1900 fra 190		
JUNIOR AREC 342	Water Law, Policy, and Institutions			
	Water Law, Policy, and Institutions Quantitative Reasoning for Ecosystem Science			
AREC 342				
AREC 342 ESS 330	Quantitative Reasoning for Ecosystem Science			
AREC 342 ESS 330 SOCR 470	Quantitative Reasoning for Ecosystem Science Soil Physics			
AREC 342 ESS 330 SOCR 470 SOCR 471	Quantitative Reasoning for Ecosystem Science Soil Physics Soil Physics Laboratory Introduction to Statistical Methods			
AREC 342 ESS 330 SOCR 470 SOCR 471 STAT 301 or 315	Quantitative Reasoning for Ecosystem Science Soil Physics Soil Physics Laboratory Introduction to Statistical Methods Statistics for Engineers and Scientists			
AREC 342 ESS 330 SOCR 470 SOCR 471 STAT 301 or 315 WR 418 ² WR 419	Quantitative Reasoning for Ecosystem Science Soil Physics Soil Physics Laboratory Introduction to Statistical Methods Statistics for Engineers and Scientists Land Use and Water Quality			
AREC 342 ESS 330 SOCR 470 SOCR 471 STAT 301 or 315 WR 418 ² WR 419	Quantitative Reasoning for Ecosystem Science Soil Physics Soil Physics Laboratory Introduction to Statistical Methods Statistics for Engineers and Scientists Land Use and Water Quality Water Quality Laboratory for Wildland Managers		3B	
AREC 342 ESS 330 SOCR 470 SOCR 471 STAT 301 or 315 WR 418 ² WR 419 Watershed Science Department Lie	Quantitative Reasoning for Ecosystem Science Soil Physics Soil Physics Laboratory Introduction to Statistical Methods Statistics for Engineers and Scientists Land Use and Water Quality Water Quality Laboratory for Wildland Managers		3B 3D	



SENIOR

Select one course from	the following:			
SOCR 322	Principles of Microclimatology	constraint caricul num catha sa th' air ann daoirticiúil i chleadannacht a famairtí a meileann cann a chi		3
WR 474	Snow Hydrology	meterde le l'el e equiminatatique, qui qualque duminorida del expelhención en restrice, a amujor de l'el deseg	uickert (u.n.o.) u.n.ere n.ft. / m.e. norm monelenoncia nilamentenenenenei (u.m.) moneet (ö.f.)	3
WR 416 ²	Land Use Hydrology		4B	3
WR 417 ²	Watershed Measurements	Ammedite and the Colonia and American and American and American American American (American American American	thy and and the health is a suppressible of the consequent problem. It has the health of these when a define the suppressible of the consequent problems and the suppressible of the consequent problems.	3
WR 440	Watershed Problem Analysis		4A,4B,4C	3
WR 486	Watershed Field Practicum	ood filologiste in hippopelus eerd trock in domaalus veren meeting in door moudelle missioneliste meet hippopel		2
Watershed Science De	partment List selection (select 9 credits from list below) ³	gent (an h-m feith i reighnighdau y ammigiamhraighgaigh i raife fhliadh i gur amagar dàithig a sao maigir	a gali, entilase, a en promonte monor el commencemente camo estimolo menci "temme deli porto e	<u>6</u> 9
Electives ⁴		re Transista († 1807 g. g. f. et group) de promision water en entre en prometo des Gronnes (habitation pentro pound promision en	es have eithiche in 1997, sie eine Addresse Amerika (Angeleine Amerika (Angeleine Amerika (Angeleine Amerika (A	<u>5-7</u> 2-4
		Total Credits		25-27
				100

Program Total Credits:

120

Watershed Science Department List

Code	Title	Credits
Earth Sciences		отникамического и под того подволяться для под виде и предоставления для принценей и под под достой для виде и
ATS 350	Introduction to Weather and Climate	2
ATS 351	Introduction to Weather and Climate Laboratory	1
<u>CIVE 322</u>	Basic Hydrology	3
CIVE 413	Environmental River Mechanics	3
CIVE 423	Groundwater Engineering	3
<u>CIVE 425</u>	Soil and Water Engineering	3
<u>CIVE 440</u>	Nonpoint Source Pollution	3
GEOL 452	Hydrogeology	4
<u>GEOL 454</u>	Geomorphology	4
<u>GR 323/NR 323</u>	Remote Sensing and Image Interpretation	3
NR 422	GIS Applications in Natural Resource Management	4
SOCR 322	Principles of Microclimatology	3
SOCR 440	Pedology	4
<u>WR 406</u>	Seasonal Snow Environments	3
VR 474	Snow Hydrology	3
Ecology		
BSPM 445	Aquatic Insects	4
BZ 440	Plant Physiology	3
ВZ 441	Plant Physiology Laboratory	2
BZ 471	Stream Biology and Ecology	3
BZ: 472	Stream Biology and Ecology Laboratory	1



Code	Title	Credits
BZ 474	Limnology	diction and the complete and the complet
<u>CIVE 330</u>	Ecological Engineering	3
ESS 311	Ecosystem Ecology	3
ESS 411	Earth Systems Ecology	
<u>RS 478</u>	Ecological Restoration	3
Sustainability		
AREC 442	Water Resource Economics	3
ESS 400	Sustainability and Ecosystem Science	3
NR 310	Ecosystem Services and Human Well-Being	3
NR 320	Natural Resources History and Policy	3
NRRT 330	Social Aspects of Natural Resource Management	contribition from a single contribution of the contribution and the contribution of th
NRRT 362	Environmental Conflict Management	and the second of the second throughout the effect of the second of the
SOC 461	Water, Society, and Environment	e consequencemental actività con consequence de promotiva con conference con consequence de promotiva de promotiva de consequence de conseque

¹ LIFE 102 or equivalent is required to take LIFE 103. In order to take this course, students may need to obtain a registration override from the appropriate 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- to 400-level).



College of Natural Sciences
Department of Computer Science
BS in Applied Computing Technology
Human Centered Computing Concentration

Effective Fall 2016

FRESHMAN

TRESHMAN			
		AUCC	CREDITS
<u>CO 150</u>	College Composition (GT-CO2)	1A	3
<u>CS-160</u>	Foundations in Programming	-	4
<u>CS-161</u>	Object-Oriented Problem Solving	-	4
CS 192	First-Year Seminar-Computer Science		2
Select one course from	n the following:	_	
CS 163	Java (CS1) No Prior Programming		4
CS 164	Java (CS1) Prior Programming	enderformet en platestytte i sjätte funtfor mytgemenden. Sy sjäte fyrindefordinderformet genede gehade, med en trompile Here	4
CS 165	Java - Data Structures and Algorithms	-	4
MATH 160	Calculus for Physical Scientists I (GT-MA1)	1B	4

² Partially satisfies requirements of the Water Resources Interdisciplinary Studies Program.

³ Select courses not taken elsewhere in the program from the Watershed Science Department List, for a program minimum total of 9 +2 credits.



PSY 100	General Psychology (GT-SS3)	3C	3
Biological and Physical Sc	iences	3A	4
Global and Cultural Awar	reness	$3\mathrm{E}$	3
Electives ¹		overdeligg green op de deel verde til de med 1996 och de de medde. De produkte med 6.00 gild 2004 gilt og de p	3
	Total Cr	edits	30
SOPHOMORE			
<u>CS-200</u>	Algorithms and Data Structures	na mendulah unukandan mendulah giradian mendulah berakulan digiraman belakan belak semengan melaki semendi mesuri dahar 	4
CS 253	Software Development with C++	adis et foormbuillem vere i vergen remembridase felfond fan stê stê Stê All Stê de mei it is dez it folke fan de it it met bekenne	4
<u>CS 220</u>	Discrete Structures and their Applications	yang palah gipa di pandang pisan ngisi ngapah ngisi an tina ta sapana di mahingaka tahuan pisan (sapan di pang Mahingan pisan di pangang pisan ngisi ngapang pisan ngisi ngapang pisan ngisi ngapang pisan ngapang panganahan Jan	4
CS 270	Computer Organization	y magamangangah (Albanghag) (Albanah da karan kangga) (Apadah (Cangbanag) at Pamanagah y (Albanah). (Cangbanah	4
MATH 161	Calculus for Physical Scientists II (GT-MA1)	$1\mathrm{B}$	4
MATH 229	Matrices and Linear Equations	edgeger yn it y yn yn Ar All Ardydd feith def ferif hef yn grenhaeun o fefiniol y Cyfr Did y menn hif. Af o'r flyng afferen i'n degen	2
PSY 250	Research Methods in Psychology	in a company potential of the amount of the format of the although the department of the format and amount of the format of the	4
PSY 252	Mind, Brain, and Behavior	auszarasasanak-arapemeterra o in esikiki masara nure kalde 164 semilik 1569 esikik semeserri kasi kasi meneri	3
Advanced Writing		2	3
Biological and Physical Sc	<u>iences</u>	3A	3
	Total Cr	·edits	31
JUNIOR			
CS 320	AlgorithmsTheory and Practice		3
CS 464	Principles of Human-Computer Interaction	4A,4B,4C	4
CT 310	Web Development		4
Select 3-6 credits from the f	ollowing:		
STAT 311 & STAT 312	Statistics for Behavioral Sciences I		3 3
OR		n yktor i na diku kulan dalah dalah kulan dalah kulan dalah kulan kulan kulan kulan dalah	
STAT 315	Statistics for Engineers and Scientists	4B	3
Arts and Humanities		3B	3
Historical Perspectives		3D	3
Upper-Division Electives		ту мамерала менька на мато доборе маній з мена від домення маста на домення маста на маста домення маста на маста на маста на домення маста на маста	3
Electives		en for general is faller i challenderweet en ear was about on one confoliate the tentre in the confoliation of the challender entre and about the confoliation of the challender entre and about the confoliation of the challender entre and about the	3-6
	Total Cr	redits	29
SENIOR			
<u>CS 410</u>	Introduction to Computer Graphics	The second secon	4
CS 440	Introduction to Artificial Intelligence	4A,4C	4
PSY 452	Cognitive Psychology		3
PSY 456	Sensation and Perception	ggygen. Fa gyggegggad Art Benedicking gjald i senes referrir mongjenta pril get sel physiologisalistemistik gerban	3

92

University Curriculum Committee January 29, 2016 Page 7

<u>PSY 453</u> or <u>457</u>	Cognitive Psychology Laboratory Sensation and Perception Laboratory		2
Arts and Humanities		3B	3
Upper-Division Electives ¹			6-9
Electives			2-5
		Total Credits	30
	Program Total Credits:		120

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 Computer Science Minor in Computer Science

Effective Fall 2016

A minimum grad	de of C is required in all courses required for the minor, and the	i r prerequisites .
Code	Title	Credits
Lower Division		
<u>CS 160</u>	Foundations in Programming	4
<u>CS-161</u>	Object-Oriented Problem Solving	4
<u>CS-200</u>	Algorithms and Data Structures	4
Select one course from	om the following:	
CS 163	Java (CS1) No Prior Programming	4
CS 164	Java (CS1) Prior Programming	4
CS 165	Java - Data Structures and Algorithms	4
<u>CS 220</u>	Discrete Structures and their Applications	4
<u>CS 270</u>	Computer Organization	4
Upper Division		
CS***	Courses numbered 300- or above	12
Program Total Cre	edits	28



College of Natural Sciences Department of Mathematics Minor in Mathematics Effective Fall 2016

A minimum grade of C is required in all-mathematics, statistics, and computer science each MATH, STAT, and CS courses required for the minor in mathematics.

Code	Title	Credits
Select one group from	m the following:	8
Group A:		titte til der i Material det med et er fatte og for år det er e type år til fillpanskjörner framtlingerind gjörnega
<u>MATH 155</u>	Calculus for Biological Scientists I (GT-MA1)	
MATH 255	Calculus for Biological Scientists II (GT-MA1)	
Group B:		
<u>MATH 160</u>	Calculus for Physical Scientists I (GT-MA1)	
<u>MATH 161</u>	Calculus for Physical Scientists II (GT-MA1)	
Group C:		
MATH 160	Calculus for Physical Scientists I (GT-MA1)	
<u>MATH 271</u>	Applied Mathematics for Chemists I	
Electives in compute	r-science, mathematics, or statistics ² Choose 6-7 credits from the following: 1	6-7
Upper-division (300-	to 400- level) courses in MATH, STAT, or CS	(1999) din di audi binaka yakawati unis, sisi pilakusi mwakili jingiri, yiki sifi ya fa Qiri mitu, sisi Qida di makha
MATH 229	Matrices and Linear Equations	etti killer saini saiti Storini kausi Araba kiriba kiriba kiriba kallada aadatta aa kallada Araba Araba Araba A
MATH 261	Calculus for Physical Scientists III	
MATH 272	Applied Mathematics for Chemists II	
Upper-Division Math	nematics Electives (300- 400- level MATH courses) ^{4 2}	9
Program Total Cree	dits	23

Course List

² Courses ending in -80 and to -99 cannot be used to satisfy upper-division (300- to 400-level) requirements.



Intra-University
Interdisciplinary Minor in Arabic Studies

Effective Fall 2016

A grade of C or better is required in each course that will count toward the interdisciplinary minor.

Lower Division Language 1 8-	
LARA 105	First-Year Arabic I 5
LARA 107	First-Year Arabic II 5
LARA 200	Second-Year Arabic I (GT-AH4) 4
LARA 201	Second-Year Arabic II (GT-AH4) 4

¹ Choose from MATH 229 or MATH 261 or MATH 272 or upper-division courses in mathematics, statistics, or computer science. At least 3 credits must be from the upper-division (300- to 400-level) courses.

Lower Division Electives ¹		0-9
HIST-115	The Islamic World: Late Antiquity to 1500	3
PHIL 172	Religions of the East	3
LARA 250	Arabic Language, Literature, Culture in Translation (GT-AH2)	3
Upper-division E	Electives	об и до на брого пред на на опроворя в обора на образования по постоя в образования до на образования обра
Select at least 12	credits from at least two different disciplines:	
HIST 303	Hellenistic World: Alexander to Cleopatra	and the first test and the consequences control constitution of the site of the control consequences and the consequences and the control consequences and the control consequences and the control co
HIST 308	Ancient Christianity to 500 A.D.	3
HIST 421	Africa: Colonialism to Independence	3
HIST 422	Modern Africa	an conformation of Sphaneser, administration, space and application represents the contraction of the American Sphaneser Sphan
<u>HIST 430</u>	Ancient Near East	a various in the site of the assessment of reliable to the assistant of the CPA commission. The CPA of the desire
HIST 431	Ancient Israel	acceptance communical established in construction and the state of the continuous and the state of the state
HIST 432	Sacred History in the Bible and the Qur'an	and it descens a second tradescend in term one can be about a child and in the about a child and in the chil
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
LARA 300	Third Year Arabic	3
LARA 301	Oral Communication - Arabic	3
POLS 449	Middle East Politics	3
PHIL 335	Islam: Cosmology and Practice	3
PHIL 379	Mysticism East and West	3

Program Total Credits

PHIL 455

21

3

LARA 200 and LARA 201 are required. Students placed out of or directly into LARA 201 need to replace 5-9 lower division credits from the list of lower-division electives. A maximum of 9 lower-division credits may be counted for the minor.



Approved Subject Code Change

Request to change subject code RRM, Restaurant and Resort Management to HM, Hospitality Management was approved, Department of Food Science and Human Nutrition.

The meeting adjourned at 3:05 p.m.

Islamic Philosophy

95

A regular meeting of the University Curriculum Committee was held on February 5, 2016, at 2:00 p.m.

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

Curriculum Liaison Specialist: Shelly Ellerby.

Guests: Katie Risheill.

Absent: Graduate representative Allistair Cook.

Minutes

The Minutes of January 29, 2016 were approved.

Experimental Course Report

None.

Consent Agenda

None.

New Courses Effective Date

BUS 636 03(3-0-0). Economics of Ecosystems and Biodiversity F.

Fall 2016

Prerequisite: None.

Registration Information: Admission to the Global Social and Sustainable Enterprise MBA

program.

Economic theories and analytical frameworks are developed and applied to the use, protection and management of the natural environment.

SPCM 320 03(3-0-0). Communication: Human Anti-Trafficking S.

Fall 2016

Prerequisite: 3 credits of SPCM or 3 credits of AUCC Category 3B.

Registration Information: Sophomore standing.

Examines historical and contemporary anti human trafficking movements, assessing the communication strategies employed by anti-trafficking advocates and organizations. Assesses the role language plays in shaping societal attitudes toward victims, survivors, and perpetrators of human trafficking.

Major Change to Courses

JTC 100 03(3-0-0). Media in Society (GT-SS3) F, S.

Fall 2016

Prerequisite: None.

Registration Information: Sections may be offered: Online.

Role of media in American democracy; impact of media on individuals and society.

VM 616 8 9(45-98-1) Functional Anatomy F.

Fall 2016

Prerequisite: None.

Registration Information: Admission to the Professional Veterinary Medicine Program.

Intensive study of the gross anatomy of domestic animals. Anatomy studied comprises canine, feline, bovine, equine, small ruminant, and porcine species. Emphasis is on canine and equine anatomy. Comparative understanding of the anatomy of organ systems that will support clinical instruction in the professional curriculum. Embryonic development and organogenesis are incorporated to improve understanding of normal anatomy and common developmental pathologies



Major Change to Curricula

College of Engineering

Effective Fall 2016

BS in Biomedical Engineering with CB

Dual Degree Program: Biomedical Engineering and Chemical and Biological Engineering

FRESHMAN		The professional and the contract of the contr	
		AUCC	CREDITS
BIOM 101	Introduction to Biomedical Engineering		3
CBE 101	Chemical and Biological Engineering I		3
<u>CBE 102</u>	Chemical and Biological Engineering II	-	3
CBE 160	MATLAB for Chemical and Biological Eng		1
CHEM 111	General Chemistry I (GT-SC2)	3A	4
CHEM 112	General Chemistry Lab I (GT-SC1)	3A	1
<u>CHEM 113</u>	General Chemistry II		3
CHEM 114	General Chemistry Lab II	-	1
LIFE 102	Attributes of Living Systems (GT-SC1)	3A	4
MATH 160	Calculus for Physical Scientists I (GT-MA1)	1B	4
<u>MATH 161</u>	Calculus for Physical Scientists II (GT-MA1)	1B	4
PH 141	Physics for Scientists and Engineers I (GT-SC1)	3A	5
Additional Requirement	s for Graduation ¹	тователя то поводили в вербото то 2 то то выполнения на повой поводить на повой поводить в выполнения в выполн	0
er i compositione de la camera a come nota es consistence que qualit de maior personalismes.		outlier other Clearly annual members and remarks to a completion above the months of the completion of	non seg, a comprome allower as assert extreme a set a common set on manufacture.
SOPHOMORE	Total Cr	edits	32
SOPHOMORE	Total Cr	edits	32
SOPHOMORE CBE 201	Total Cr	edits	32
		edits	
<u>CBE 201</u>	Material and Energy Balances	edits	3
CBE 201 CBE 205	Material and Energy Balances Introduction to Biological Engineering	edits	3
CBE 201 CBE 205 CBE 210	Material and Energy Balances Introduction to Biological Engineering Thermodynamic Process Analysis	edits	3 3 3
CBE 201 CBE 205 CBE 210 CHEM 114	Material and Energy Balances Introduction to Biological Engineering Thermodynamic Process Analysis General Chemistry Lab II	edits	3 3 3
CBE 201 CBE 205 CBE 210 CHEM 114 CHEM 341	Material and Energy Balances Introduction to Biological Engineering Thermodynamic Process Analysis General Chemistry Lab II Modern Organic Chemistry I	edits	3 3 3 1
CBE 201 CBE 205 CBE 210 CHEM 114 CHEM 341 CHEM 343	Material and Energy Balances Introduction to Biological Engineering Thermodynamic Process Analysis General Chemistry Lab II Modern Organic Chemistry I Modern Organic Chemistry II	edits 1A	3 3 3 1 3
CBE 201 CBE 205 CBE 210 CHEM 114 CHEM 341 CHEM 343 CHEM 344	Material and Energy Balances Introduction to Biological Engineering Thermodynamic Process Analysis General Chemistry Lab II Modern Organic Chemistry I Modern Organic Chemistry II Modern Organic Chemistry Laboratory		3 3 3 1 3 3 2
CBE 201 CBE 205 CBE 210 CHEM 114 CHEM 341 CHEM 343 CHEM 344 CO 150	Material and Energy Balances Introduction to Biological Engineering Thermodynamic Process Analysis General Chemistry Lab II Modern Organic Chemistry I Modern Organic Chemistry II Modern Organic Chemistry II College Composition (GT-CO2)	1A	3 3 3 1 3 3 2 3
CBE 201 CBE 205 CBE 210 CHEM 114 CHEM 341 CHEM 343 CHEM 344 CO 150 LIFE 102	Material and Energy Balances Introduction to Biological Engineering Thermodynamic Process Analysis General Chemistry Lab II Modern Organic Chemistry I Modern Organic Chemistry II Modern Organic Chemistry II College Composition (GT-CO2) Attributes of Living Systems (GT-SC1)	1A	3 3 3 1 3 3 2 3 4
CBE 201 CBE 205 CBE 210 CHEM 114 CHEM 341 CHEM 343 CHEM 344 CO 150 LIFE 102 MATH 261	Material and Energy Balances Introduction to Biological Engineering Thermodynamic Process Analysis General Chemistry Lab II Modern Organic Chemistry I Modern Organic Chemistry II Modern Organic Chemistry II Modern Organic Chemistry Laboratory College Composition (GT-CO2) Attributes of Living Systems (GT-SC1) Calculus for Physical Scientists III	1A	3 3 3 1 3 3 2 3 4 4
CBE 201 CBE 205 CBE 210 CHEM 114 CHEM 341 CHEM 343 CHEM 344 CO 150 LHFE 102 MATH 261 MATH 340	Material and Energy Balances Introduction to Biological Engineering Thermodynamic Process Analysis General Chemistry Lab II Modern Organic Chemistry I Modern Organic Chemistry II Modern Organic Chemistry II Modern Organic Chemistry Laboratory College Composition (GT-CO2) Attributes of Living Systems (GT-SC1) Calculus for Physical Scientists III Introduction to Ordinary Differential Equations Physics for Scientists and Engineers II (GT-SC1)	1A 3A	3 3 3 1 3 3 2 3 4 4 4
CBE 201 CBE 205 CBE 210 CHEM 114 CHEM 341 CHEM 343 CHEM 344 CO 150 LIFE 102 MATH 261 MATH 340 PH 142	Material and Energy Balances Introduction to Biological Engineering Thermodynamic Process Analysis General Chemistry Lab II Modern Organic Chemistry I Modern Organic Chemistry II Modern Organic Chemistry II Modern Organic Chemistry Laboratory College Composition (GT-CO2) Attributes of Living Systems (GT-SC1) Calculus for Physical Scientists III Introduction to Ordinary Differential Equations Physics for Scientists and Engineers II (GT-SC1)	1A 3A	3 3 3 1 3 3 4 4 4 5



BC 351	Principles of Biochemistry		4
BIOM 300	Problem-Based Learning Biomedical Engr Lab		4
BIOM-330	Transport Phenomena in Biomedical Engineering		3
BMS 300	Principles of Human Physiology		4
<u>CBE 310</u>	Molecular Concepts and Applications		3
<u>CBE 320</u>	Chemical and Biological Reactor Design		3
CBE 330	Process Simulation		3
<u>CBE 331</u>	Momentum Transfer and Mechanical Separations		3
CBE 332	Heat and Mass Transfer Fundamentals	отностью с сабобить бите (до с до станов реней и пост в пост с под со до со до со с	3
<u>CBE 333</u>	Chemical and Biological Engineering Lab I	Stand freedom to the seminated management process as a said product arms and obtained and a seminated companion assessed.	2
<u>CBE 493</u>	Professional Development Seminar	. По продоставления в проделения в предоставления в предоставления в предоставления в предоставления в предост	1
<u>LIFE 210</u>	Introductory Eukaryotic Cell Biology	Corp Colonia (Mar. 1946). As a California del Calif	3
Social and Behavioral Science	28	3 C	3
Additional Requirements for G	raduation ¹	Name and Address of green from the Collection and Address of the Collection and the Colle	0
er uit erheit 1 m. mit een hij heer is en hijdele kan van der hij heer hij heer hij heer heer heer heer keer van de seem keer	Total Cre	edits	34
SENIOR			
and the analysis of the design of the annual section of the sectio		e en	-color-overlan-accommon p co-colo
BIOM 400	Kinetics of Biomolecular and Cellular Systems	otornasion entertroconimistro alimentario di la conferencia del conferencia del conferencia del conferencia del -	. 3
<u>CBE 430</u>	Process Control and Instrumentation	et traditional et de de de la compagnition de monthétain disserte de calamina constituit de monte con propriet	3
BIOM 330	Transport Phenomena in Biomedical Engineering		3
BIOM 422	Kinetics of Biomolecular and Cellular Systems		3
CBE 333	Chemical and Biological Engineering Lab I		
<u>CBE 442</u>	Separation Processes		
	Separation 1 rocesses		4
CBE 443	Chemical and Biological Engineering Lab II	entropiamente de la composiçõe de la com	4
<u>CBE 443</u> <u>CBE 451</u>			and platestic dates to the following platestic appropriate and according to the contract of th
	Chemical and Biological Engineering Lab II		2
CBE 451	Chemical and Biological Engineering Lab II Chemical and Biological Engineering Design I		2
CBE 451 MECH 262	Chemical and Biological Engineering Lab II Chemical and Biological Engineering Design I Engineering Mechanics	3B	2 3 4
CBE 451 MECH 262 STAT 315	Chemical and Biological Engineering Lab II Chemical and Biological Engineering Design I Engineering Mechanics	3B 3D	2 3 4 3
CBE 451 MECH 262 STAT 315 Arts and Humanities	Chemical and Biological Engineering Lab II Chemical and Biological Engineering Design I Engineering Mechanics Statistics for Engineers and Scientists		2 3 4 3 3
CBE 451 MECH 262 STAT 315 Arts and Humanities Historical Perspectives	Chemical and Biological Engineering Lab II Chemical and Biological Engineering Design I Engineering Mechanics Statistics for Engineers and Scientists	3D	2 3 4 3 3 3
CBE 451 MECH 262 STAT 315 Arts and Humanities Historical Perspectives Social and Behavioral Science	Chemical and Biological Engineering Lab II Chemical and Biological Engineering Design I Engineering Mechanics Statistics for Engineers and Scientists	3D	2 3 4 3 3 3
CBE 451 MECH 262 STAT 315 Arts and Humanities Historical Perspectives Social and Behavioral Science Technical Elective ²	Chemical and Biological Engineering Lab II Chemical and Biological Engineering Design I Engineering Mechanics Statistics for Engineers and Scientists	3D 3€ -	2 3 4 3 3 3 3



BIOM 486B	Biomedical Design Practicum: Capstone Design II	4A,4B,4C	4	
<u>CBE-451</u>	Chemical and Biological Engineering Design I		3	
<u>CBE 493</u>	Professional Development Seminar		+	
<u>CBE 430</u>	Process Control and Instrumentation		3	
Advanced Writing		2	3	
Arts and Humanities		3B	3	
Global and Cultural Awa	<u>reness</u>		3	
BME Technical Elective ²			3	
CBE BIOM Technical Ele	ctive ³		5 3	
Additional Requirements f	or Graduation ¹	(ICL) эт общения у ICL). Ти губ привнечния те самых мер остосный не от отворовный, онно от выблика за десадотации не постосного с	Proposition Control of the Control o	
от 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Total Cı	edits	28	
. С. в на 170° 1916 объеда болей не биде бре временный боре вырача Дину с не некольцый досковающей	Program Total Credits:	-visit-skille kille kallende litter og til en skille her helder et er en palaret konstå som det en sek possensen er den s	158	
Approved BME Tec	chnical Electives for BME-CBE BS Program			
Code	Title	a continue de la transita de la companya de la comp	Cre	dits
Select 3 credits from the fo	ollowing:		milita militara e el tre de mandria menera a comporte e e como persona composito de composito de como con el c	
BC 401	Comprehensive Biochemistry I			3
BC 403	Comprehensive Biochemistry II		entermonental de l'asservant actività de l'apparation de l'apparation de la sale de l'apparation de l'apparati	3
BC 404	Comprehensive Biochemistry Laboratory		entre construente en entre tre construente de sous en entre con en entre con en entre con en entre con en entre	2
BC 411	Physical Biochemistry		etti kallan k	4
BC 463	Molecular Genetics			3
<u>BC 465</u>	Molecular Regulation of Cell Function			3
<u>BC 565</u>	Molecular Regulation of Cell Function		t special and a company of the property of the special and the property of the	4
BIOM 441	Biomechanics and Biomaterials			3
BIOM 470/MECH 470	Biomedical Engineering		and Company and Co	3
<u>BIOM 476A</u>	Biomedical Clinical Practicum I		marcon construir de marcon incluye e e e e e e e e e e e e e e e e e e	2
BIOM 476B	Biomedical Clinical Practicum II	data (of victima till and city) i mensada ta anna ang dan minuna menuna na ming penan nabanasahan atau menana a	and a post of the second control of the seco	4
BIOM 504/CBE 504	Fundamentals of Biochemical Engineering	40 haad Fright (not be properly a part to the part of the spirit (file of the sea of the part of the spirit (file of the sea of the spirit (file of the spirit (fi	alliche unter destillere til millet semmente seden ginner retter ette ett i mommet til til sit	3
BIOM 525/MECH 525	Cell and Tissue Engineering	in Charles (In Anti-colors) (1955) (1957) and deleterate colors) (1966)	allemphanemen ja din villalimen skiri shaka in unin vitasusa kin musukaska zingi mengan mengipen servitan menen	3
BIOM 526/ECE 526	Biological Physics	er of the activity participal additional of the activity operation and participal activity of the participal of the activity o	menten, makengan-pahalis jahah fantapah dan sera, pamakan yai, pap pendhengan, adalah enis (1744 dengah	3
BIOM 531/MECH 531	Materials Engineering	erementetet van des een een 200 februarie (1973) is van de konstelle tot voor verbijde verbeerde verbeerd verbeerd de verbeerd ve	de chung part tidak (Shaharin dhi Shaharin na Chi Shahari Shari tidan Shan Shan Shaharin 1994 - 1994 - 1994 -	3
BIOM 533/CIVE 533	Biomolecular Tools for Engineers	омен боло на 16 м п. н. н. т. боло боло боло в боло в боло в неменение на 16 м п. н.		3
BIOM 543/CBE 543	Membranes for Biotechnology and Biomedicine	and an explanation of acquaint of could introduce or James for organization and appropriate could be considered as the country of the country	erinde kan programmen er	3
BIOM 573/MECH 573	Structure and Function of Biomaterials	enterminati and the foliation of the contract from the contract and the co	elemente de la composito de la	3
BMS 301	Human Gross Anatomy	от объем на може об развите, од формостроповител се се объем на применения по объем на применения объем объ	goodell a dhallan dhallan eil fhan bhu agairmhal a sangaighga guinnid A' dhùin tha a condhaidheach	5
BMS 302	Laboratory in Principles of Physiology	nnnandrier Laddermenster reiden deus sem daal bekands vad die sederal blev mes daas of make material van die s	nemo in immer medin distribiti solo (valimenno immo) manamanta derificialmin metrol (ris der	2
BMS 325	Cellular Neurobiology	te mentet untrakter i – antiklastik kilajan tertaktara kanna si-akilahannakkan tajuka kent man atamatan manann	misselle commingen in the first standing speaker and of the first seek of the first seek of the first seek of	3
BMS 345	Functional Neuroanatomy		erkendeligk in de spiritelijk de pleisjoner forskelijke in general for Philosophie (1900-1906) bester for de p	4
<u>BMS 405</u>	Nerve and Muscle-Toxins, Trauma and Disease		оссиция положения расположения на том и муниции и диниции по тенера (million mellom de desiri	3

Code	Title	Credits
BMS 420	Cardiopulmonary Physiology	3
BMS 430	Endocrinology	3
BMS 450	Pharmacology	3
BMS 500	Mammalian Physiology I	4
BMS 501	Mammalian Physiology II	4
BMS 503/NB 503	Developmental Neurobiology	3
BMS 505/NB 505	Neuronal Circuits, Systems and Behavior	3
BZ 311	Developmental Biology	4
BZ 350	Molecular and General Genetics	4
BZ 476/BZ 576	Genetics of Model Organisms	3
CBE 543	Membranes for Biotechnology and Biomedicine	3
<u>CHEM 334</u>	Quantitative Analysis Laboratory	I.
<u>CHEM 335</u>	Introduction to Analytical Chemistry	- determination of the contract and the
<u>CHEM 433</u>	Clinical Chemistry	3
<u>CHEM 539A</u>	Principles of NMR and MRI: Basic NMR Principles	the Continuent to the continuent and the continuent
CHEM 539B	Principles of NMR and MRI: NMR Diffusion Measurements-2D NMR and MRI	
<u>CHEM 539C</u>	Principles of NMR and MRI: Advanced NMR and MRI Techniques	T.
CM 501	Advanced Cell Biology	4
CM 502/NB 502	Techniques in Molecular & Cellular Biology	2
ECE 569/MECH 569	Micro-Electro-Mechanical Devices	
ERHS 450	Introduction to Radiation Biology	3
ERHS 502	Fundamentals of Toxicology	3
ERHS 510	Cancer Biology	3
HES 307	Biomechanical Principles of Human Movement	3
HES 319	Neuromuscular Aspects of Human Movement	3
HES 403	Physiology of Exercise	4
HES 405	Exercise Testing Instrumentation	2
HES 476	Exercise and Chronic Disease	3
<u>MATH 455</u>	Mathematics in Biology and Medicine	3
MECH 543	Biofluid Mechanics	3
MECH 569	Micro-Electro-Mechanical Devices	3
MIP 300	General Microbiology	3
MIP 302	General Microbiology Laboratory	2
MIP 342	Immunology -	4
MIP 343	Immunology Laboratory	2
MIP 351	Medical Bacteriology	3
MIP 352	Medical Bacteriology Laboratory	3



Code	Title	Credits
MIP 420	Medical and Molecular Virology	4
MIP 436	Industrial Microbiology	4
MIP 443	Microbial Physiology	4
MIP 450	Microbial Genetics	3
MIP 576/BSPM 576	Bioinformatics	3
<u>NB 500</u>	Readings in Cellular Neurobiology	1
<u>NB 501</u>	Cellular and Molecular Neurophysiology	2
NB 503	Developmental Neurobiology	3
<u>NB 505</u>	Neuronal Circuits, Systems and Behavior	3
Course List		

Approved CBE Technical Electives for BME-CBE BS Program

Code	Title	Credits
Select 5 credits from the fol	lowing:	ugaya yangangayan ing usanaga nananan kapi usana ang isa and nana akalah napi mimilim nam na nasahalah akana ha min
AA 301	Astrophysics l	5
<u>AA 302</u>	Astrophysics II	5
AA 303	Astrophysics III	5
ATS 555	Air Pollution	3
ATS 560	Air Pollution Measurement	2
BC 401	Comprehensive Biochemistry I	3
BC 403	Comprehensive Biochemistry II	3
BC 404	Comprehensive Biochemistry Laboratory	2
BC 463	Molecular Genetics	3
BC 465	Molecular Regulation of Cell Function	3
BIOM 470/MECH 470	Biomedical Engineering	3
BIOM 476A	Biomedical Clinical Practicum I	2
BIOM 476B	Biomedical Clinical Practicum II	4
BIOM 525/MECH 525	Cell and Tissue Engineering	3
BIOM 532/MECH 532	Material Issues in Mechanical Design	3
BIOM 533/CIVE 533	Biomolecular Tools for Engineers	3
BIOM 570/MECH 570	Bioengineering	3
BIOM 573/MECH 573	Structure and Function of Biomaterials	3
BMS 301	Human Gross Anatomy	5
BMS 302	Laboratory in Principles of Physiology	2
BMS 360	Fundamentals of Physiology	4
BMS 420	Cardiopulmonary Physiology	3
BMS 430	Endocrinology	3
BMS 450	Pharmacology	3

Code	Title to the state of the state	Credits
BMS 500	Mammalian Physiology I	4
BMS 501	Mammalian Physiology II	4
BSPM 302	Applied and General Entomology	2
BSPM 303A	Entomology Laboratory: General	2
BSPM 361	Elements of Plant Pathology	3
BSPM 450	Molecular Plant-Microbe Interaction	3
BZ 310	Cell Biology	4
BZ 311	Developmental Biology	интеритеритеритеритеритеритеритеритеритери
BZ 346	Population and Evolutionary Genetics	3
BZ 348/MATH 348	Theory of Population and Evolutionary Ecology	4
BZ 350	Molecular and General Genetics	amentorio del principio del principio del mentifere spesi i renta completamenta del del ser trate e e e principio del mentifere del contrato con el contrato contrato contrato con el contrato cont
BZ 415	Marine Biology	4
BZ 440	Plant Physiology	3
BZ 441	Plant Physiology Laboratory	2
BZ 450	Plant Ecology	distribution de la common de considera de la communicació de con de communicació de communicac
BZ 476/BZ 576	Genetics of Model Organisms	3
BZ 572	Phytoremediation	to discrete tallement to to the College addition annual trade of universe is a revision debaument or a contravolution annual because
CBE 406	Introduction to Transport Phenomena	3
<u>CBE 495</u>	Independent Study	1-18
CBE 501	Chemical Engineering Thermodynamics	3
CBE 502	Advanced Reactor Design	3
CBE 503	Transport Phenomena Fundamentals	3
CBE 504/BIOM 504	Fundamentals of Biochemical Engineering	3
CBE 514	Polymer Science and Engineering	3
CBE 521	Mathematical Modeling for Chemical Engineers	3
CBE 522/BIOM 522	Bioseparation Processes	3
CBE 524	Bioremediation	1
CBE 540/CIVE 540	Advanced Biological Wastewater Processing	3
CBE 543/BIOM 543	Membranes for Biotechnology and Biomedicine	3
CHEM 261	Fundamentals of Inorganic Chemistry	3
CHEM 334	Quantitative Analysis Laboratory	1
CHEM 335	Introduction to Analytical Chemistry	and the second s
CHEM 431	Instrumental Analysis	untilizand annularans (i lanca accos descriptiós) i emple rélació la forbarda de altri de color de actividad con consentante en color de forbarda de actividad de
CHEM 433	Clinical Chemistry	3
CHEM 440	Advanced Organic Chemistry Laboratory	2
CHEM 461	Inorganic Chemistry	3
<u>CHEM 462</u>	Inorganic Chemistry Laboratory	anne an ann ann an ann ann ann ann ann a

Code	Title Title	Credits
CHEM 511	Solid State Chemistry	3
<u>CHEM 515</u>	Polymer Chemistry	3
<u>CHEM 517</u>	Chemistry of Electronic Materials	3
<u>CHEM 537</u>	Electrochemical Methods	3
CHEM 539A	Principles of NMR and MRI: Basic NMR Principles	1
<u>CHEM 539B</u>	Principles of NMR and MRI: NMR Diffusion Measurements-2D NMR and MRI	1
<u>CHEM 539C</u>	Principles of NMR and MRI: Advanced NMR and MRI Techniques	1
<u>CHEM 543</u>	Structure/Mechanisms in Organic Chemistry	3
<u>CHEM 547</u>	Physical Organic Chemistry	3
<u>CHEM 551</u>	Organometallic Chemistry	3
<u>CHEM 565</u>	Inorganic Mechanisms	3
<u>CHEM 569</u>	Chemical Crystallography	3
CHEM 570	Chemical Bonding	3
<u>CHEM 571A</u>	Quantum Chemistry: Foundations	2
<u>CHEM 571B</u>	Quantum Chemistry: Electronic Structure	Y
CHEM 575	Fundamentals of Chemical Thermodynamics	l l
CHEM 576	Statistical Mechanics	2
CHEM 577	Surface Chemistry	3
CHEM 579	Chemical Kinetics ~	3
CIVE 260	Engineering Mechanics-Statics	3
CIVE 261	Engineering Mechanics-Dynamics	3
CIVE 322	Basic Hydrology	3
<u>CIVE 360</u>	Mechanics of Solids	3
CIVE 401	Hydraulie Engineering	3
<u>CIVE 413</u>	Environmental River Mechanics	3
<u>CIVE 423</u>	Groundwater Engineering	3
CIVE 425	Soil and Water Engineering	3
<u>CIVE 438</u>	Environmental Engineering Concepts	3
<u>CIVE 440</u>	Nonpoint Source Pollution	3
CIVE 504	Wind Engineering	3
CIVE 520	Physical Hydrology	3
CIVE 531	Groundwater Hydrology	3
CIVE 538	Aqueous Chemistry	3
<u>CIVE 540</u>	Advanced Biological Wastewater Processing	3
CIVE 560	Advanced Mechanics of Materials	3
CM 501	Advanced Cell Biology	4
CM 502/NB 502	Techniques in Molecular & Cellular Biology	2



Code	Title Title	Credits
<u>CS 160</u>	Foundations in Programming	4
<u>CS 161</u>	Object-Oriented Problem Solving	4
<u>CS 200</u>	Algorithms and Data Structures	4
<u>CS 270</u>	Computer Organization	4
<u>CS 420</u>	Introduction to Analysis of Algorithms	enterant procurem internation to every great or phonograph delian regular laces or the term or a company region, and
ECE 204	Introduction to Electrical Engineering	3
ENGR 298	Undergraduate Research	1-3
ENGR 498	Undergraduate Research	1-3
ENGR 510	Engineering Optimization: Method/Application	destructivations in childrens relitares relatares relatares relatares (related in the last
ERHS 446	Environmental Toxicology	3
ERHS 448	Environmental Contaminants: Exposure and Fate	3
ERHS 450	Introduction to Radiation Biology	1
ERHS 502	Fundamentals of Toxicology	3
ERHS 510	Cancer Biology	and a state of the
ERHS 547	Equipment and Instrumentation	3
F311	Forest Ecology	3
FTEC 447	Food Chemistry	2
FTEC 572	Food Biotechnology	2
GEOL 150	Physical Geology for Scientists and Engineers	a tribinate in a contential model in the contential model in contential conte
<u>GEOL 454</u>	Geomorphology	•
HES 307	Biomechanical Principles of Human Movement	3
HES 319	Neuromuscular Aspects of Human Movement	3
HES 403	Physiology of Exercise	4
<u>LIFE 201B</u>	Introductory Genetics: Molecular/Immunological/Developmental (GT-SC2)	3
<u>LIFE 202B</u>	Introductory Genetics Recitation: Molecular	occusionaliticaliticalities est supercolarante inscriber con a reservo fine service esti estimate interferior del se 1
LIFE 203	Introductory Genetics Laboratory	2
LIFE 212	Introductory Cell Biology Laboratory	2
LIFE 320	Ecology	anagamatas tris, miser atim observation and analysis and analysis and analysis at the same
MATH 317	Advanced Calculus of One Variable	4
MATH 332	Partial Differential Equations	3
MATH 348	Theory of Population and Evolutionary Ecology	on community continued, common grammaticard innocessary community community community and at 1990 to 1990 to 1 and
MATH 366	Introduction to Abstract Algebra	3
MATH 369	Linear Algebra I	3
MATH 405	Introduction to Number Theory	3
MATH 417	Advanced Calculus I	nonnementuum erivi miskiloseitemita ovotenalaanoi terikiloseitemiteeli iseettii vietee.
MATH 418	Advanced Calculus II	3
MATH 419	Introduction to Complex Variables	3



Code	Title Title	Credits
MATH 460	Information and Coding Theory	3
MATH 469	Linear Algebra II	3
<u>MATH 501</u>	Combinatorics I	3
MATH 502	Combinatories II	3
MATH 510	Linear Programming and Network Flows	3
MATH 520	Nonlinear Programming	3
<u>MATH 525</u>	Optimal Control	3
<u>MATH 530</u>	Mathematics for Scientists and Engineers	4
MATH 532	Mathematical Modeling of Large Data Sets	3
<u>MATH 545</u>	Partial Differential Equations I	3
MATH 546	Partial Differential Equations II	3
MECH 307	Mechatronics and Measurement Systems	4
MECH 331	Introduction to Engineering Materials	4
MECH 431	Metals and Alloys	3
MECH 437	Internal Combustion Engines	3
MECH 460	Aeronautics	3
MECH 463	Building Energy Systems	3
MECH 468	Space Propulsion and Power Engineering	3
MECH 530	Advanced Composite Materials	3
MECH 531	Materials Engineering	3
MECH 558	Combustion	3
MECH 575	Solar and Alternative Energies	3
MIP 300	General Microbiology	3
MIP 302	General Microbiology Laboratory	2
MIP 334	Food Microbiology	3
MIP 335	Food Microbiology Laboratory	2
MIP 342	Immunology	4
MIP 343	Immunology Laboratory	2
MIP 350	Microbial Diversity	3
MIP 351	Medical Bacteriology	3
MIP 352	Medical Bacteriology Laboratory	3
M1P 420	Medical and Molecular Virology	4
MIP 432	Microbial Ecology	3
MIP 433	Microbial Ecology Laboratory	1
MIP 436	Industrial Microbiology	4
MIP 443	Microbial Physiology	4
MIP 450	Microbial Genetics	3



Code		Credits
MIP 576/BSPM 576	Bioinformatics	3
MIP 578/BZ 578	Genetics of Natural Populations	un cubi recenti con
<u>NR 300</u>	Biological Diversity	no constituti del su consecuencia del tribita del solo transissipi di consecuencia di discisi in discisi in discisi si se consecuencia del su cons
NR 322	Introduction to Geographic Information Systems	proces (sinter-cent) anticontris in accident a accident accident conservation accident accide
NR 323/GR 323	Remote Sensing and Image Interpretation	anti-anti-anti-anti-anti-anti-anti-anti-
PH 314	Introduction to Modern Physics	re s'erre derivation and deleva e colour e s'esta come la me e est ani, s'along all allace esta acceptant deleva e deleva e eleva el
PH 315	Modern Physics Laboratory	2
PH 341	Mechanics	4
PH 351	Electricity and Magnetism	4
PH 353	Optics and Waves	4
PH 361	Physical Thermodynamics	3
PH 451	Introductory Quantum Mechanics I	3
PH 452	Introductory Quantum Mechanics II	3
PH 521	Introduction to Lasers	
PH 522	Introductory Laser Laboratory	
PH 531	Introductory Solid State Physics	
PH 541	Classical Physics	3
PH 551	Modern Physics	
PH 561	Elementary Particle Physics	з
PH 571	Mathematical Methods for Physics I	america sistema upungan makari saari saari saari saari saani saani saani saari saari saari saari saari saari s B
PH 572	Mathematical Methods for Physics II	species or consideration of stage, and detail as a state species of state for an abstraction of them as an in the control of control of members of the control of the contr
SOCR 240	Introductory Soil Science	4
SOCR 330	Principles of Genetics	3
SOCR 331	Genetics Laboratory	1
SOCR 455	Soil Microbiology	3
SOCR 456	Soil Microbiology Laboratory	1
SOCR 467	Soil and Environmental Chemistry	3
SOCR 470	Soil Physics	3
SOCR 471	Soil Physics Laboratory	and account or successive waterface through amount of conservations. The restriction of a military appropriate the second of the
SOCR 478	Environmental Soil Sciences	3
SOCR 479	Environmental Soil Science Laboratory	Ī
<u>STAT 305</u>	Sampling Techniques	3
STAT 340	Multiple Regression Analysis	3
STAT 350	Design of Experiments	3
STAT 372	Data Analysis Tools	3
STAT 420	Probability and Mathematical Statistics I	3
STAT 430	Probability and Mathematical Statistics II	3



Code	Title		Credits
<u>STAT 511</u>	Design and	Data Analysis for Researchers I	4
STAT 512	Design and	Data Analysis for Researchers II	4

- 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 five-year program.
- Select a total of 36 credits from Approved BME Technical Electives for BME-CBE Program. courses with the BIOM or ECE subject code.
- Select 53 credits from Approved CBE Techical Electives for BME-CBE Program. courses with the BIOM subject code.



College of Liberal Arts
Department of Music, Theatre, and Dance
BM in Music
Composition Concentration

Effective Fall 2016

30

A minimum grade of C is required in all music courses used to satisfy the requirements of the BM in Music, Composition Concentration.

FRESHMAN			
unite per para de la composiçõe de la considerar a conservada de compositado de composito de composito de comp		AUCC	CREDITS
<u>CO 150</u>	College Composition (GT-CO2)	1A	3
<u>MU 117</u>	Music Theory I		4
<u>MU 118</u>	Music Theory II		4
<u>MU 131</u>	Introduction to Music History and Literature (GT-AH1)	3B	3
MU 150 ¹	Piano Class I	-	7
Select one group from the follow	wing: ²¹		
Group A:			
MU 172A	Freshman Voice Studio: English/Italian		2
<u>MU 172B</u>	Freshman Voice Studio: German, French		2
Group B:		non-karnondrin, njernij si, sell prinsiplikh inkalegeniya happina kik in "ninseguninism" sel	
Applied Music Instruction - Lo	wer-Division (see list below)24		2-4
Ensemble (see list below) ³²			2
Historical Perspectives		3D	3
<u>Mathematics</u>		1B	3
Electives 43		-	<u>3-5</u> 4-6

Total Credits

MU 217	Music Theory III		4
MU 218	Music Theory IV	ndorder (determination) de l'acte Augustino) municipale de l'administration Aussi (malaismatica de l'acte (de	4
Applied Music Instruction - Lower-Di	vision (see list below) $^{\frac{1}{2}}$		2
MU 273	Composition Instruction	elekt stammaken (1839 til 18 st. 18 s	2
Ensemble (see list below) $\frac{32}{}$			
PSY 100	General Psychology (GT-SS3)	3C	
Advanced Writing		2	
Electives			1
ili kungturuh ur groppell kungtik gropik gro	Total Cr	edits	3
JUNIOR		турган уу уу до хаторин уу ховоон од хово хово хово хово хово хово хово х	
MU 254	Beginning Conducting	takkanteriorin menerian eta en trabe en triberen tribetakan en urraite anoroniako en ini taken kalendaria.	o e-includente anticipa de la companida de la c
<u>MU 317</u>	Music Theory V	er Christianis der Clark utbericht sudder Arbeiten kom der verweiten von und der Leiten der Andreich kolorier Anne Arbeiten der Andreich kolorier Andreich A	Jacker (n. 1946) de l'agine en emperiment plante et de la recomposition de la recompos
MU 318	Arranging and Orchestration	oyaer karan (iji) giganiningidi (ijinadan difirik kara) (a). (ijindi yaahay) (ilibin shaqadi garaningi baraban dadaban (ilibin bir) (a) (ijindi	kayan yayaya in ingin oleh minin ahaliy ya atin aka kakin yakin tana u ya an ingin sa u ya atin sa
MU 334	Music History I	4A,4B	ar u menguan conquisiran mundiur commentus denga ceremak
<u>MU 335</u>	Music History II	4A,4B	warmanings series or dead assets serves line-
Select one from the following:			
<u>MU 355</u>	Choral Conducting and Literature	s ist i typ, dat ign Julius II. ikukokupermanisi kalkupapawan physinika. Hindubekkakan musembila	2
MU 356	Instrumental Conducting and Literature	 Chick Control and Control Comment and Control Con	2
MU 473	Composition Instruction		Z
<u>MU 499</u>	Thesis	entermonatura eliterrante mentra en restaturo consentinto errestrologo en transcribente en en en entermonatura	t de de tribute () de de demang (presença e papa partir mangen de de personal que personal partir () mande
Ensemble (see list below) ²²			ggygg (11 gydgy priygar) i ywyr a thalantug gyfyrigiing conwiy agoly y r
Arts and Humanities		$3\mathrm{B}$	
Music Electives		то швого лименти изглаги вого вого посторовного потемено вого и тейнового те и текстро на посто	erenet i vinanni erusus anaman, erususenendal albirdur u
Electives		anna en alaminana reurena anir ria encomme som reunantena reaminatendit tekni ente mprocentelori.	t or som consider and the city or recoverance or a short most, and the stiff of the transcenage.
од на стоит в при в на вистем в на стоит в на стите в на	Total Cr	edits	2
SENIOR			
MU 417	Counterpoint	r pagasanan et den er gangarramanan manasaria tribati di mindistribi tribati memendiput dibendiri	
MU 418	Advanced Orchestration		
MU 419	Electronic Music Composition	a. v.	
MU 471	Recital	4C	ana mangang pagnapana panahan ana mangandan nganan menengankan n
<u>MU 473</u>	Composition Instruction		a assessoo astaal a assamuninnon rananinnonsi
Ensemble (see list below) ³²			our ESC a makelig its unittinglassig adjudged "P" i till AA' timed (indexembless).
Biological and Physical Sciences		3A	na canada e e e e e e e e e e e e e e e e e e
Global and Cultural Awareness		3E	communicación de la commun



		Total Credits	30
	Program Total Credits:		120
	Applied Music Instruction - Lower-Division		
Code	Title		Credits
MU 272A	Applied Music Instruction: Euphonium	makers, jour digits (and half prompt growth many displayed and an explicit of the property of	1-2
MU 272B	Applied Music Instruction: French Horn		1-2
MU 272C	Applied Music Instruction: Trombone		1-2
MU 272D	Applied Music Instruction: Trumpet		1-2
MU 272E	Applied Music Instruction: Tuba		1-2
MU 272G	Applied Music Instruction: Harpsichord		1-2
MU 272H	Applied Music Instruction: Organ		1-2
MU 2721	Applied Music Instruction: Piano		1-2
MU 272J	Applied Music Instruction: Percussion	A del market (s. m. 1996), international factories (s. former) (1996), in the channel gold former communication of grant to produce the channel gold for the channel gold former and the channel gold	1-2
MU 272K	Applied Music Instruction: Guitar	- Chaptering the Colonial and Chaptering State (State State	1-2
MU 272L	Applied Music Instruction: Harp	атам, шиндиктор, соонун аламыны даруу онунун шышкандарардынгы онунундагы метендериндиктик менендиктик мене	1-2
MU 272N	Applied Music Instruction: String Bass		1-2
MU 272N	Applied Music Instruction: Viola	ока менения выполнять другительный окашинай компоний выполнять на продуствення выполнять на применения выполнять на продуствення выполнять на применения выполн	1-2
MU 2720	Applied Music Instruction: Violin		1-2
MU 272P	Applied Music Instruction: Violoncello	ос от неболи и градовать на выполня в настройний в настро	1-2
MU 2720	Applied Music Instruction: Voice	iki dana maurun padalanga (Kital anga). Alaus patam ki sakitin kati ne tanggar dalam mendaga Presidentin-dalam dalam dalam mendaga Nesidentin-mendaga	1-2
MU 272R	Applied Music Instruction: Bassoon	a dia anti-rusura bio que la siculaçõe con finalistica dia diferida de mendente constitución metamento de futile. Objetimina habilita de teleprometria dia constitución de desenvolves de constitución de constitución de constitución de desenvolves de constitución de	1-2
MU 272S	Applied Music Instruction: Clarinet	Standard in the property of the company of the comp	1-2
MU 272T	Applied Music Instruction: Flute	Judges, vegen de sentes, sent de trapit et samble de entremente de despris hanne in statis (e.g., comment de el describe entremente de de la Performancia de la commentation de la comme	1-2
MU 272U	Applied Music Instruction: Oboe	reparted deviced, amountained to the considered to be interested the proper destination programme and device amounts and another field a meditar follows. Note that the properties are the contract the contract and another field a meditar follows. Note that the properties are the contract to the contract and another field a meditar follows. Note that the contract the c	1-2
MU 272V	Applied Music Instruction: Saxophone (A	refrired productions when related values are shown of the control of the state of t	1-2
	Ensemble Courses		
Code	Title		Credits
MU 201	Men's Chorus		1
MU 202	University Chorus		1
MU 204	Marching Band		1
MU 205	Concert Band		1
MU 206	Colorado State University Concert Orchestra		1
MU 300	Women's Chorus		1
MU 302	University Orchestra	and the state of t	
MU 304	Symphonic Band		
MU 305	Colorado State University Concert Choir		
MU 309	Jazz Ensemble	ar manan unter mananagum - no e senda maga) que pendemanyo mettere pet la anagorita cardini interaction de minimi che mette della cardini dell	1
MU 310	Jazz Combo	от применения в достоя в дост	nomenchanthampho ey han, medigi dipagagi piriya pandisiriya di Santayan a mendahambahambahampi menglengia, gari dahabah dali 1

Code	Title	Credits
MU 400	Colorado State University Chamber Choir	the control of the co
MU 401	Opera Theater	1-2
MU 402	Theater/Chamber Orchestra	1
MU 404	Symphonic Wind Ensemble	and cubic country in the country state (State State state and Company Commission and American State St
MU 407	Accompanying	устонно порядили до откано отверствення вышения в стормент об устоновления от отвершения вышения об устоновления совения выполнения от отвершения вышения об устоновления совения выполнения от отвершения выполнения
MU 408	Chamber Music	даста в неговник-т-того с неговно-т-того объекто объе

- Students with previous keyboard experience may test out of MU 150 and replace with one elective credit. First year voice students take MU 172A and MU 172B, then MU 272Q the second year for 2 semesters. Instrumentalists take MU 272A MU 272P or MU 272R MU 272V on a major instrument for 2 semesters each of the first 2 years.
- First-year voice students take MU 172A and MU 172B, then MU 272Q the second year for 2 semesters. Instrumentalists take MU 272A-MU 272P or MU 272R-MU 272V on a major instrument for 2 semesters each of the first 2 years. Students must participate in an ensemble during each semester in which they are enrolled in MU 172A MU 172B, MU 272A MU 272V, and MU 472A MU 472V. At least once during the program of study, this must be achieved by taking MU 408 or through another small ensemble experience.
- Students must participate in an ensemble during each semester in which they are enrolled in MU 172A-MU 172B, MU 272A-MU 272V, and MU 472A-MU 472V. At least once during the program of study, this must be achieved by taking MU 408 or through another small ensemble experience. Voice students take four credits of electives. Instrumentalists take six credits of electives.
- ⁴ <u>Voice students take three credits of electives. Instrumentalists take five credits of electives. 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).</u>
- 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 Liberal Arts
Department of Music, Theatre, and Dance
BM in Music
Music Education Concentration, Choral Option

FRESHMAN

MU 172B

Effective Fall 2016

2

A minimum grade of C is required in all music courses used to satisfy the requirements of the BM in Music, Music Education Concentration, Choral Option. Required EDUC courses must be completed with a minimum grade of C.

AUCC CREDITS 3 CO 150 College Composition (GT-CO2) 1A 4 MU 117 Music Theory I 4 MU 118 Music Theory II 3 MU 131 Introduction to Music History and Literature (GT-AH1) 3B MU 150¹ Piano Class I Piano Skills for Music Educators 1 MU 151 2 Freshman Voice Studio: English/Italian MU 172A

Freshman Voice Studio: German, French



MU 286	Practicum-Music Education		3 1
MU *** Ensemble (see list below) ²⁴		g garage	2
<u>PSV 100</u>	General Psychology (GT-SS3)	3C	3
Arts and Humanties		3B	3
Mathematics		1B	3
	Total Credits		31
SOPHOMORE			
EDUC 275	Schooling in the United States (GT-SS3)	3C	3
EDUC 340	Literacy and the Learner		3
<u>MU 152</u>	Piano Skills for Choral Directors		1
<u>MU 217</u>	Music Theory III		4
MU 218	Music Theory IV		4
Select one from the following:		ensussay what was a remaindening to the foreign and the companies of the first and the companies of the co	gan dankingan and all 1985, which is shart assemblikation for this state of the first tribital
MU 252A	Instrumental Techniques: Brass	voor va Armonottiis S. Commonwood fra mannoone delenhold S. commonwood A. chilath 3 can agus franchism delenhold S.	2
MU 252B	Instrumental Techniques: Woodwinds		2
<u>MU 254</u>	Beginning Conducting	### consistency of the consisten	2
MU 252C	Instrumental Techniques: Strings	-	1
Applied Music Instruction - Lower-	Division (see list below)		2
MU *** Ensemble (see list below) ²⁴			2
Advanced Writing		2	3
Biological and Physical Sciences		$3 ext{A}$	43
Historical Perspectives		$3 \mathrm{D}$	3
a a chair, ann an Airea (a agus agus a chair, a an dhair, a an dhair, ann an an Aireann	Total Credits	en de seguinte de la complexión de la comp	32
JUNIOR			
EDUC 331	Educational Technology and Assessment	atas, comacol recent se el selecto el reconstitut si detre la distratare mentre de e, en es en rece da la fresc	2
EDUC 350	Instruction I-Individualization/Management	and a reason of the state of th	3
EDUC 386	Practicum-Instruction I	olanie, z gl. magazione in la magazione prominente philanguagiore e elevaçõe especial antificial de filosofic	1
EDUC 474	Elementary Music Methods I	many i min ngu ti Nan nguh (1984) pili na kili na akuliki, adami Parishkumani pili ya ki in akili "" i na sisi	2
EDUC 475	Elementary Music Methods II	yuu 1971, 197, jakkuulogaanja 111 ay annuus isra-uutaga dhiik hiista wiilidan arrammatidin ee	2
MU-252C	Instrumental Techniques: Strings	ouely acus a greatenium a success conferencemental and a conference or the conference of self-december.	1
<u>MU 254</u>	Beginning Conducting	unaskulen jaks sastilaksioon, den valien si salien sastilaksi den kandista den da eera ali ee erumeeleet (si e Hannis sastilaksioon, den valien si salien sastilaksi den da eera ali ee erumeeleet (si eelittiistiistiistiist	2
MU317	Music Theory V		2
MU 318	Arranging and Orchestration		2
MU 334	Music History I	4A,4B	3
MU 335	Music History II	4A,4B	3
MU 355	Choral Conducting and Literature	gauss par vargensammannan ann an mar ann ann ann ann ann ann ann ann ann a	2
MU 466	Song Literature	an kalanda kanan maran da mar	2



Applied Music Inst		uurun aan senedanti kirimin kiriki kiriki konsel dandakiri keninkirika mereni hali aan dan kiriki kalemin karaman aan danda keninkiri karaman aan danda keninkiri kalemin karaman aan danda keninkiri karaman aan danda karaman aan danda keninkiri karaman aan danda keninkiri karaman aa
· -Ppiioa iriusio ilist	ruction – Upper-Division (see list below)	
MU *** Ensemble	(see list below) ²⁴	2
Biological and Phy	vsical Sciences	3A <u>3</u> 4
	Total Credits	33
SENIOR		
EDUC 450	Instruction II-Standards and Assessment	4
EDUC 476	Choral Methods for Secondary Schools	2
EDUC 485A	Student Teaching: Elementary	6
EDUC 485B	Student Teaching: Secondary	6
EDUC 486E	Practicum: Instruction II	1
EDUC 493A	Seminar: Professional Relations	1
MU 425	Jazz Pedagogy	2
MU 467	Vocal Pedagogy	2
MU 471	Recital	4C 1
Applied Music Inst	ruction – Upper-Division (see list below)	1
MU *** Ensemble	(see list below) ²⁴	1
Global and Cultur	val 4 maranace	encontraction of management to the contraction of t
STORM AND CHILD	at Awai eness	3E 3
	Total Credits	3E 3
STOPM BING CHROIT		
	Total Credits	30
Applie	Total Credits Program Total Credits:	30
Applie Code	Total Credits Program Total Credits: ed Music Instruction - Lower-Division	30 126
Applie Code MU 272A	Total Credits Program Total Credits: ed Music Instruction - Lower-Division Title	30 126 Credit
Applie Code <u>MU 272A</u> MU 272B	Total Credits Program Total Credits: ed Music Instruction - Lower-Division Title Applied Music Instruction: Euphonium	30 126 Credit
Applie Code <u>MU 272A</u> <u>MU 272B</u> MU 272C	Total Credits Program Total Credits: ed Music Instruction - Lower-Division Title Applied Music Instruction: Euphonium Applied Music Instruction: French Horn	30 126 Credit 1-
Applie Code <u>MU 272A</u> <u>MU 272B</u> <u>MU 272C</u> <u>MU 272D</u>	Program Total Credits: ed Music Instruction - Lower-Division Title Applied Music Instruction: Euphonium Applied Music Instruction: French Horn Applied Music Instruction: Trombone	30 126 Credit 1- 1- 1-
Applie Code MU 272A MU 272B MU 272C MU 272D MU 272E	Program Total Credits: ed Music Instruction - Lower-Division Title Applied Music Instruction: Euphonium Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet	30 126 Credit 1- 1-
Applie Code MU 272A MU 272B MU 272C MU 272D MU 272E MU 272E MU 272G	Program Total Credits: ed Music Instruction - Lower-Division Title Applied Music Instruction: Euphonium Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba	30 126 Credit 1- 1- 1- 1- 1- 1- 1-
Applie Code MU 272A MU 272B MU 272C MU 272D MU 272E MU 272G MU 272H	Program Total Credits: ed Music Instruction - Lower-Division Title Applied Music Instruction: Euphonium Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord	30 126 Credit 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
Applie Code MU 272A MU 272B MU 272C MU 272D MU 272E MU 272E MU 272H MU 272I	Program Total Credits: ed Music Instruction - Lower-Division Title Applied Music Instruction: Euphonium Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord Applied Music Instruction: Organ	30 126 Credit 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
Applie Code MU 272A MU 272B MU 272C MU 272D MU 272E MU 272E MU 272G MU 272H MU 272I MU 272J	Program Total Credits: ed Music Instruction - Lower-Division Title Applied Music Instruction: Euphonium Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord Applied Music Instruction: Organ Applied Music Instruction: Piano	30 126 Credit 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
Applie Code MU 272A MU 272B MU 272C MU 272D MU 272E MU 272E MU 272E MU 272I MU 272I MU 272J MU 272K	Program Total Credits: Program Total Music Instruction: Program Total Credits: Program Total Credits	30 126 Credit 1- 1- 1- 1-
	Program Total Credits: Progra	30 126 Credit 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
Applie Code MU 272A MU 272B MU 272C MU 272D MU 272D MU 272E MU 272E MU 272H MU 272I MU 272J MU 272J MU 272L MU 272L MU 272L	Program Total Credits: ad Music Instruction - Lower-Division Title Applied Music Instruction: Euphonium Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord Applied Music Instruction: Organ Applied Music Instruction: Piano Applied Music Instruction: Percussion Applied Music Instruction: Guitar Applied Music Instruction: Harp	30 126 Credit 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
Applie Code MU 272A MU 272B MU 272C MU 272D MU 272D MU 272E MU 272E MU 272H MU 272I MU 272J MU 272J MU 272L MU 272L MU 272M MU 272M MU 272N	Program Total Credits: ed Music Instruction - Lower-Division Title Applied Music Instruction: Euphonium Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord Applied Music Instruction: Organ Applied Music Instruction: Percussion Applied Music Instruction: Guitar Applied Music Instruction: Harp Applied Music Instruction: String Bass	30 126 Credit 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
Applie Code MU 272A MU 272B MU 272C MU 272D MU 272D MU 272E MU 272G MU 272H MU 272I MU 272J MU 272L MU 272L	Program Total Credits: Progra	30 126 Credit 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-

Code	Title The state of	Credits
MU 272R	Applied Music Instruction: Bassoon	1-2
MU 272S	Applied Music Instruction: Clarinet	1-2
MU 272T	Applied Music Instruction: Flute	1-2
<u>MU 272U</u>	Applied Music Instruction: Oboe	1-2
<u>MU 272V</u>	Applied Music Instruction: Saxophone (Alto)	1-2
Applied N	/lusic Instruction - Upper-Division	
Code	Title	Credits
<u>MU 472A</u>	Applied Music Instruction: Euphonium	1-2
MU 472B	Applied Music Instruction: French Horn	1-2
MU 472C	Applied Music Instruction: Trombone	1-2
<u>MU 472D</u>	Applied Music Instruction: Trumpet	1-2
<u>MU 472E</u>	Applied Music Instruction: Tuba	1-2
MU 472G	Applied Music Instruction: Harpsichord	1-2
MU 472H	Applied Music Instruction: Organ	1-2
MU 472I	Applied Music Instruction: Piano	1-2
MU 472J	Applied Music Instruction: Percussion	1-2
MU 472K	Applied Music Instruction: Guitar	1-2
MU 472L	Applied Music Instruction: Harp	1-2
MU 472M	Applied Music Instruction: String Bass	1-2
MU 472N	Applied Music Instruction: Viola	1-2
MU 4720	Applied Music Instruction: Violin	1-2
<u>MU 472P</u>	Applied Music Instruction: Violoncello	1-2
MU 472Q	Applied Music Instruction: Voice	1-2
MU 472R	Applied Music Instruction: Bassoon	1-2
MU 472S	Applied Music Instruction: Clarinet	1-2
MU 472T	Applied Music Instruction: Flute	1-2
<u>MU 472U</u>	Applied Music Instruction: Oboe	1-2
<u>MU 472V</u>	Applied Music Instruction: Saxophone (Alto)	1-2
Fnsemble	e Courses	
Code	Title The state of	Credits
MU 201	Men's Chorus	n en
MU 202	University Chorus	1
<u>MU 204</u>	Marching Band	1
MU 205	Concert Band	useranteen en
<u>MU 206</u>	Colorado State University Concert Orchestra	1
MU 300	Women's Chorus	Language con a la consecuence e en consecuence con consecuence con consecuence de la consecuence della

Code	Title Title	Credits
MU 302	University Orchestra	1
MU 304	Symphonic Band	1
MU 305	Colorado State University Concert Choir	1
MU 309	Jazz Ensemble	1
MU 310	Jazz Combo	1
MU 400	Colorado State University Chamber Choir	1
MU 401	Opera Theater	1-2
MU 402	Theater/Chamber Orchestra	1
MU 404	Symphonic Wind Ensemble	1
MU 407	Accompanying	1
MU 408	Chamber Music	1

¹ Students with previous keyboard experience may test out of MU 150 and use the one credit for an elective. Students must participate in an ensemble during each semester in which they are enrolled in MU 172A MU 172B, MU 272A MU 272V, and MU 472A MU 472V. At least once during the program of study this must be achieved by taking MU 408 or through another small ensemble experience.

Students must participate in an ensemble during each semester in which they are enrolled in MU 172A-MU 172B, MU 272A-MU 272V, and MU 472A-MU 472V. At least once during the program of study this must be achieved by taking MU 408 or through another small ensemble experience.



College of Liberal Arts
Department of Music, Theatre, and Dance
BM in Music
Music Education Concentration, Instrumental Option

Effective Fall 2016

A minimum grade of C is required in all music courses used to satisfy the requirements of the BM in Music. Music Education Concentration, Instrumental Option. Required EDUC courses must be completed with a minimum grade of C.

FRESHMAN			
s - The service arms of a management and a management arms of a management at a million and a management and a		AUCC	CREDITS
<u>CO 150</u>	College Composition (GT-CO2)	1A	3
MU 117	Music Theory I		4
MU 118	Music Theory II		4
MU 131	Introduction to Music History and Literature (GT-AH1)	3B	3
MU 150 ¹	Piano Class I	-	
MU 151	Piano Skills for Music Educators	orman visuamanaman visuami visuami (omendimente) (C. S.	1
MU 251	Voice Techniques		1
MU 252B	Instrumental Techniques: Woodwinds		2
Applied Music Instruct	ion – Lower-Division (see list below) 24		2

<u>MU 286</u>	Practicum-Music Education		- 1, the marties of primate strain, such place is usually the contract and the strain of the strain
MU *** Ensemble (se	ee list below) ³²		2
<u>PSY-100</u>	General Psychology (GT-SS3)	, 3C	3
Arts and Humanties		3B	3
<u>Mathematics</u>		$1\mathrm{B}$	3
CVIII OUZE VIII TEEL AVAIT AOOLOIN MARKOOLOINININANDOL GARACTA ASSISSI GLAVOONAAA AARAA	Total	Credits	32
SOPHOMORE			
EDUC 275	Schooling in the United States (GT-SS3)	оспольными не произволя для по принце под	accommunicación con consistención mentional en entre e
EDUC 340	Literacy and the Learner	очесноем место на давина выполнения по стородного техного техноских соттемвей, чет постоя должной добить быть до невый до должной добить достигной добить достигной должной достигной дост	a de la composition de la composition de la confirmación de la confirm
MU217	Music Theory III		
MU 218	Music Theory IV		4
MU 252A	Instrumental Techniques: Brass	шини шини шини шини шини шини шини шини	2
MU 252C	Instrumental Techniques: Strings	остобного в принципання на принц	1
<u>MU-254</u>	Beginning Conducting		2
Applied Music Instruc	ction – Lower-Division (see list below) ²⁴	rankanna suammana rankan kamanna mi Guyara verit mihasuu serakhasi kehiri (perhisi) kaman ili Siyaki (kamani	2
MU *** Ensemble (se	ee list below) ³²		2
Advanced Writing		2	3
Biological and Physic	cal Sciences	3A	43
Historical Perspectiv	<u>es</u>	3D	ang anggiffigagagani, s. ever, every, antimum to fruit suprimina plane established at
	Total	Credits	<u>31</u> 32
JUNIOR			
EDUC 331	Educational Technology and Assessment	an,	2
EDUC 350	Instruction I-Individualization/Management	anggarangan sepaggalah kacamatan 1979 (1995) anggarang salah sebagai kacamatan kacamatan salah sebagai sebagai	3
EDUC 386	Practicum-Instruction I	andre - Antiques in the Symbol and Antiques (Antiques (A	1
EDUC 474	Elementary Music Methods I	gyaggangganggapanananan kalaman (4) amin' 4 20 min'ni managari yakar 5 danan 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2
EDUC 475	Elementary Music Methods II	yndyddiaethiol, y y mae'i yngaeth o rhwedd y meet o chim y beddiae gathaffaeth o mae'i ar 10 haly'r dyddiaeth o daeth o 1000 y	2
MU 254	Beginning Conducting	r, coppering from the content of the	2
MU 317	Music Theory V		2
MU 318	Arranging and Orchestration		2
MU 334	Music History I	4A,4B	3
<u>MU 335</u>	Music History II	4A,4B	3
MU 356	Instrumental Conducting and Literature		2
Select one from the fo	ollowing: ⁴³		
MU 420	Marching Band Techniques	gamengelinke governmen verken kan kan verken verken verken gemeinigkan verken verken verken kan verken kan verk	2
MU 421	Orchestral Techniques		2

MU *** Ensemble	(see list below) 32		2
Biological and Phy	rsical Sciences	3A	34
		Total Credits	3332
SENIOR			
EDUC 450	Instruction II-Standards and Assessment	inkalia kiali ada mili ada mengana menana menana menana mengana mengana menana menana menana menana menana mena Tanggaran	d
EDUC 477	Instrumental Methods for Secondary Schools	*	2
EDUC 485A	Student Teaching: Elementary	the contraction of the contracti	6
EDUC 485B	Student Teaching: Secondary	gorgani zamaziran mangapan (ko. 1. 1. samery zyrana (Yoshing) eleke yeldi ki sameliki di membiri seki deleke, deke kelifi di dike kelifi di deleke kelifi di deke kelifi di deleke kelifi di dele	6
EDUC 486E	Practicum: Instruction II	надаги допри теор, ит воря (до неу допри то то тране и нада Су денеу, повороване рој на при повороване и предостава у поворова и поворова	1
EDUC 493A	Seminar: Professional Relations	одици, бол 3 од 1 - година (19 дицина гриници у 1-и 3 устор до 1 - година на били више више више више више видент ставително на принципа видент ставително в	occusionementalis accusiones commentes e A. Procure e challeterante establishe
MU 252D	Instrumental Techniques: Percussion		1
MU 425	Jazz Pedagogy		2
MU 471	Recital	4C	1
Applied Music Instr	ruction – Upper-Division (see list below)		
MU *** Ensemble	(see list below) ^{3,2}		1
Global and Cultur	al Awareness	3E	3
Elective ^{5,4}		na na karanganan dannan karangan karangan karangan dan ka	1
garangan kalan an ang angkan makin di makamin an diandasardan timandati ta didagang panta		Total Credits	30
 - region of complete for each white an explaining both development between Arts 1 and 1. 	Program Total Credits:	operations of the programment of contribution of the first of the second	126
Applie	ed Music Instruction - Lower-Division		
Code	Title		Credits
MU 272A	Applied Music Instruction: Euphonium		1-2
MU 272B	Applied Music Instruction: French Horn		1-2
MU 272C	Applied Music Instruction: Trombone		1-2
<u>MU 272D</u>	Applied Music Instruction: Trumpet		1-2
MU 272E	Applied Music Instruction: Tuba		1-2
MU 272G	Applied Music Instruction: Harpsichord		1-2
MU 272H	Applied Music Instruction: Organ		1-2
MU 272I	Applied Music Instruction: Piano		1-2
MU 272J	Applied Music Instruction: Percussion		1-2
<u>MU 272K</u>	Applied Music Instruction: Guitar		1-2
MU 272L	Applied Music Instruction: Harp		1-2
MU 272M	Applied Music Instruction: String Bass		1-2
MU 272N	Applied Music Instruction: Viola	and professional pulsages of an image page an analysis of the desired and a size of the second of th	1-2
MU 2720	Applied Music Instruction: Violin		1-2
MU 272P	Applied Music Instruction: Violoncello		1-2
<u>MU 272Q</u>	Applied Music Instruction: Voice		1-2



Code	Title	Credits
MU 272R	Applied Music Instruction: Bassoon	1-2
MU 272S	Applied Music Instruction: Clarinet	1-2
<u>MU 272T</u>	Applied Music Instruction: Flute	1-2
<u>MU 272U</u>	Applied Music Instruction: Oboe	1-2
<u>MU 272V</u>	Applied Music Instruction: Saxophone (Alto)	1-2
Applie	ed Music Instruction - Upper-Division	
Code	Title	Credits
MU 472A	Applied Music Instruction: Euphonium	1-2
MU 472B	Applied Music Instruction: French Horn	1-2
<u>MU 472C</u>	Applied Music Instruction: Trombone	1-2
MU 472D	Applied Music Instruction: Trumpet	1-2
MU 472E	Applied Music Instruction: Tuba	1-2
<u>MU 472G</u>	Applied Music Instruction: Harpsichord	1-2
MU 472H	Applied Music Instruction: Organ	1-2
MU 472I	Applied Music Instruction: Piano	1-2
MU 472J	Applied Music Instruction: Percussion	1-2
<u>MU 472K</u>	Applied Music Instruction: Guitar	1-2
<u>MU 472L</u>	Applied Music Instruction: Harp	1-2
MU 472M	Applied Music Instruction: String Bass	1-2
<u>MU 472N</u>	Applied Music Instruction: Viola	1-2
MU 4720	Applied Music Instruction: Violin	1-2
MU 472P	Applied Music Instruction: Violoncello	1-2
MU 472Q	Applied Music Instruction: Voice	1-2
<u>MU 472R</u>	Applied Music Instruction: Bassoon	1-2
<u>MU 472S</u>	Applied Music Instruction: Clarinet	1-2
MU 472T	Applied Music Instruction: Flute	1-2
MU 472U	Applied Music Instruction: Oboe	1-2
MU 472V	Applied Music Instruction: Saxophone (Alto)	1-2
Ensen	nble Courses	
Code	Title	Credits
<u>MU 201</u>	Men's Chorus	
MU 202	University Chorus	1
MU 204	Marching Band	1
MU 205	Concert Band	1
MU 206	Colorado State University Concert Orchestra	1
MU 300	Women's Chorus	1
MU 302	University Orchestra	1

Code	Title
MU 304	Symphonic Band 1
MU 305	Colorado State University Concert Choir 1
MU 309	Jazz Ensemble 1
MU 310	Jazz Combo 1
MU 400	Colorado State University Chamber Choir
MU 401	Opera Theater 1-2
MU 402	Theater/Chamber Orchestra 1
MU 404	Symphonic Wind Ensemble 1
MU 407	Accompanying 1
MU 408	Chamber Music 1

- Students with previous keyboard experience may test out of MU 150 and use the one credit for an elective. Major instrument; two semesters except senior year.
- Major instrument: two semesters except senior year. Students must participate in an ensemble during each semester in which they are enrolled in <u>MU 172A MU 172B,MU 272A MU 272V</u>, and <u>MU 472A MU 472V</u>. At least once during the program of study, this must be achieved by taking <u>MU 408</u> or through another small ensemble experience. Wind and percussion majors must take <u>MU 204</u> twice during their four year program.
- Students must participate in an ensemble during each semester in which they are enrolled in MU 172A-MU 172B. MU 272A-MU 272V, and MU 472A-MU 472V. At least once during the program of study, this must be achieved by taking MU 408 or through another small ensemble experience. Wind and percussion majors must take MU 204 twice during their four year program. Wind and percussion majors take MU 420; string majors take MU 421.
- Wind and percussion majors take MU 420; string majors take MU 421. 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).
- 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 Liberal Arts
Department of Music, Theatre, and Dance
BM in Music
Music Therapy Concentration

Effective Fall 2016

A minimum grade of C is required in all music courses used to satisfy the requirements of the BM in Music, Music Therapy Concentration.

FRESHMAN

CREDITS
3
3
4
4
3



MU 150 ¹	Piano Class I		
MU 155	Guitar Class I	audicinario en vintrapario de mais sempreso () uno morro proposado (en es indepentintario e primerio de medicar de decime el term del del decime el term del del del decime el term del	2
	rom the following: ²¹		
Group A:			
MU 172A	Freshman Voice Studio: English/Italian		2
MU 172B	Freshman Voice Studio: German, French		_
Group B:	Tresmital Voice States Serial, Tresen	oping and a solice of the contract of the cont	monophistic const." I solve for mission consequence of the monophistic constant of the foreign between the constant of the con
	truction - Lower-Division (see list below)		2-4
MU 241	Introduction to Music Therapy		3
Ensemble (see list	and the second of the second of the second of the second of		2
PSY-100	General Psychology (GT-SS3)	, is the contraction of the contract of the c	3
Mathematics			
		Total Credits	30-32
SOPHOMORI			a managanta yan ngani di Samada in na ngani anganingan kan nganingan kan nganingan kan na managan na managan n
BZ 110	Principles of Animal Biology (GT-SC2)	3 A	3
BZ 111	Animal Biology Laboratory (GT-SC1)	3A	1
MU 153	Piano Skills for Music Therapists	о от и то вышения вывышения вышения вышения вышения вышения выполнения (), е «Андейная вышеный С.А. фиде» Андейная (), 20 метовые	1
MU217	Music Theory III		4
MU 218	Music Theory IV	rateurus aus van kuusuuri minassa van asaa asaa variiki kan iliku kan ankala dii hinaana kuri vali diimahaan k	4
MU 250	Music Therapy Practice		3
MU 254	Beginning Conducting		2
Applied Music Ins	truction - Lower-Division (see list below) ²⁴		2
MU 440	Music Therapy Methods I	и същности в отностит изволявающих на сителиватият для, возность повер выполняем дости информационняем достигности информационняем достигности информационняем достигности и поверхности	3
Ensemble (see list	below) ³²	ka tapin maaka a maama kiki ana dheen ya mbanayidh maraninin na dadiibanayaa a kish adaindh marani qa aana eedi ah ab indelemen ingaleedii, dadii ya mir ma	2
OT 215	Medical Terminology	unu yanganan menumerkundi sambalikahu alipi pemenganahan ben, benyap pemengan dan pemenganahan berimu melahan kama bendapaha se	1
PHIL 100	Appreciation of Philosophy (GT-AH3)	3B	3
Advanced Writin	\$	2	3
PSY 100	General Psychology (GT-SS3)	<u>3C</u>	3
a a read sulta rea a communencia l'alemat inventioner ranne fritti promittetti del hombientete		Total Credits	32
JUNIOR			
BMS 300	Principles of Human Physiology	varrili i amendine di di Cili sepera di mada desti disedira papara in di genera mangatan in a menggana mangata papara desapara de	4
BMS 345	Functional Neuroanatomy		4
MU 157 ⁴³	Voice Class I	орожного (1 от 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	2
MU 335	Music History II	4A,4B	as a combine and advantation on a second of condition required in the testing territories and
MU 342	Psychology of Music		3
MU 443	Music Therapy Methods II	у у том на том на при на том н	3

Music Therapy Methods III		3
on - Upper-Division (see list below)	er ennetter ennet in production in indicate on in indicate the indicate at the indicate of the	I account or consuccion manifesta del minimistra del manifesta del minimistra del
	4. Compared to the contract of	24
	One are to a similar transmission of the same and middle or the context of the fact are in the same of the desired was finded with the same of the sam	Turus endurence de mandre de la compaño de posiciones de la constitución de la compaño
	elancione de la responsación de la religión de la r	S
Abnormal Psychology		3
	Total Credits	<u>3234</u>
Instrumental Techniques: Percussion	generation and policy (1) and policy (1) from from the contract of the contrac	1
Research Methods in Music Therapy		3
Improvisation Techniques in Music Therapy		2
Practicum: Music Therapy	4C	1
Internship		1
owing:		
Cognitive Psychology	м этом в принципуального в при	3
Biological Psychology	or a seed a pair in a transport feature a banda, any air transport annual fee in including and a seed a see	3
Cognitive Neuroscience	n, was diginar (mr. n. n. nemen e retrograda), dis sembasian e in C.C. (in ordermanne), chi inpublica dimense e der a recipio i centra gift es place i foliale demonstrate ausgement	3
General Statistics		3
wareness	3	3
	3D	3
		occupantation of contrast for an antimorphism of the contrast cont
	rama, paraling to consigned (consistent and analysis) in terminal colored (consistent consistent and analysis) in compact (consistent analysis) in compact (consistent analysis) in consistent analysis (consistent analysis)	<u>3</u> 5
	Total Credits	<u>26</u> 25
Program Total Credits:		120
		Credits
	and the second section of the sectio	
Applied Music Instruction: Euphonium		1-2
Applied Music Instruction: Euphonium Applied Music Instruction: French Horn		1-2
Applied Music Instruction: French Horn		1-2
Applied Music Instruction: French Horn Applied Music Instruction: Trombone		1-2 1-2
Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet		1-2
Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba		1-2 1-2 1-2 1-2
Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord		1-2 1-2 1-2 1-2
Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord Applied Music Instruction: Organ		1-2 1-2 1-2 1-2 1-2
Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord Applied Music Instruction: Organ Applied Music Instruction: Piano		1-2 1-2 1-2 1-2 1-2 1-2
Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord Applied Music Instruction: Organ		1-2 1-2 1-2 1-2 1-2
	Instrumental Techniques: Percussion Research Methods in Music Therapy Improvisation Techniques in Music Therapy Practicum: Music Therapy Internship owing: Cognitive Psychology Biological Psychology Cognitive Neuroscience General Statistics wareness	Mind, Brain, and Behavior Abnormal Psychology Total Credits Instrumental Techniques: Percussion Research Methods in Music Therapy Improvisation Techniques in Music Therapy Practicum: Music Therapy 4C Internship owing: Cognitive Psychology Biological Psychology Cognitive Neuroscience General Statistics wareness 3E 3D 2 Total Credits Program Total Credits: Music Instruction - Lower-Division

Code	Title	Credits
MU 272M	Applied Music Instruction: String Bass	1-2
<u>MU 272N</u>	Applied Music Instruction: Viola	1-2
MU 272O	Applied Music Instruction: Violin	1-2
<u>MU 272P</u>	Applied Music Instruction: Violoncello	1-2
MU 272Q	Applied Music Instruction: Voice	1-2
MU 272R	Applied Music Instruction: Bassoon	1-2
<u>MU 272S</u>	Applied Music Instruction: Clarinet	1-2
MU 272T	Applied Music Instruction: Flute	1-2
<u>MU 272U</u>	Applied Music Instruction: Oboe	1-2
MU 272V	Applied Music Instruction: Saxophone (Alto)	1-2
Applied	Music Instruction - Upper-Division	
Code	Title	Credits
MU 472A	Applied Music Instruction: Euphonium	1-2
MU 472B	Applied Music Instruction: French Horn	1-2
MU 472C	Applied Music Instruction: Trombone	1-2
MU 472D	Applied Music Instruction: Trumpet	1-2
MU 472E	Applied Music Instruction: Tuba	1-2
MU 472G	Applied Music Instruction: Harpsichord	1-2
MU 472H	Applied Music Instruction: Organ	1-2
MU 4721	Applied Music Instruction: Piano	1-2
MU 472J	Applied Music Instruction: Percussion	1-2
MU 472K	Applied Music Instruction: Guitar	1-2
MU 472L	Applied Music Instruction: Harp	1-2
MU 472M	Applied Music Instruction: String Bass	1-2
<u>MU 472N</u>	Applied Music Instruction: Viola	1-2
MU 4720	Applied Music Instruction: Violin	1-2
MU 472P	Applied Music Instruction: Violoncello	1-2
MU 472Q	Applied Music Instruction: Voice	1-2
MU 472R	Applied Music Instruction: Bassoon	1-2
<u>MU 472S</u>	Applied Music Instruction: Clarinet	1-2
MU 472T	Applied Music Instruction: Flute	1-2
<u>MU 472U</u>	Applied Music Instruction: Oboe	1-2
MU 472V	Applied Music Instruction: Saxophone (Alto)	1-2
Ensemb	ble Courses	
Code	Title	Credits
MU 201	Men's Chorus	
MU 202	University Chorus	

Code	Title Title	Credits
<u>MU 204</u>	Marching Band	1
<u>MU 205</u>	Concert Band	1
MU 206	Colorado State University Concert Orchestra	1
<u>MU 300</u>	Women's Chorus	1
<u>MU 302</u>	University Orchestra	1
<u>MU 304</u>	Symphonic Band	1
<u>MU 305</u>	Colorado State University Concert Choir	1
<u>MU 309</u>	Jazz Ensemble	1
MU 310	Jazz Combo	1
MU 400	Colorado State University Chamber Choir	1
MU 401	Opera Theater	1-2
MU 402	Theater/Chamber Orchestra	1
MU 404	Symphonic Wind Ensemble	1
MU 407	Accompanying	1
MU 408	Chamber Music	1

- Students with previous keyboard experience may test out of MU 150 and use the one credit for an elective. First-year voice students must take MU 172A and MU 172B, then MU 272Q the second year for two semesters; instrumentalists take MU 272A MU 272P or MU 272R MU 272V on a major instrument for 2 semesters each of the first two years.
- First-year voice students must take MU 172A and MU 172B, then MU 272Q the second year for two semesters; instrumentalists take MU 272A-MU 272P or MU 272R-MU 272V on a major instrument for 2 semesters each of the first two years. Students must participate in an ensemble during each semester in which they are enrolled in MU 172A MU 172B, MU 272A-MU 272V, and MU 472A MU 472V. At least once during the program of study, this must be achieved by taking MU 408 or through another small ensemble experience.
- Students must participate in an ensemble during each semester in which they are enrolled in MU 172A-MU 172B, MU 272A-MU 272V, and MU 472A-MU 472V. At least once during the program of study, this must be achieved by taking MU 408 or through another small ensemble experience. Instrumental majors only.
- 4 Instrumental majors only.



College of Liberal Arts
Department of Music, Theatre, and Dance
BM in Music
Performance Concentration, Jazz Studies Option

Effective Fall 2016

A minimum grade of C is required in all music courses used to satisfy the requirements of the BM in Music. Performance Concentration, Jazz Studies Option.

FRESHMAN

CO 150 College Composition (GT-CO2) 1A	
AUCC CREDI	3
	TS

MU 118	Music Theory II		4
<u>MU 131</u>	Introduction to Music History and Literature (GT-AH1)	3B	3
MU 150 ¹	Piano Class I	**	1
Applied Music Instruction	on – Lower-Division (see list below) ²⁴	PT II. 1.11 19 19 (БОБИН МОДОН), КОТИМИТУ, КОПИЦИЦИЗМИКИЙ ПОКЛИТИСЬКИЙ СТУТИЙНИЙ ТИТИТИТИТИТИТИТИТИТИТИТИТИТИТИТИТИТИТ	oosti-toometelelitatiinissiimmiliissa 2
Applied Jazz Instruction	(select two credits from the following): ²⁺		
MU 274A	Applied Jazz Instruction: Piano		2
MU 274B	Applied Jazz Instruction: String Bass	ammenenen (- roduschende), kan voll er stellen ermättelle i blich (- rechnet) (blich () orth shree) blichburg () ort, (- bl) ort, (blichburg -) orthod	2
<u>MU 274C</u>	Applied Jazz Instruction: Trombone		2
MU 274D	Applied Jazz Instruction: Trumpet		2
MU 274E	Applied Jazz Instruction: Percussion	kika, sahaga anna menantang anna peruri samahinan ay peris Colori sepera melakendera dia akika. Diban sema menjadibihak terdakahin dibanka	2
MU 274F	Applied Jazz Instruction: Saxophone	pri - Million delange centra - meter disagratim mayo mangala incidende del condidende pendri centre del 2004 del 2004 (100 meter) del del 2004 (100 meter) d	. 2
MU 274G	Applied Jazz Instruction: Guitar	(Clarica), del tras specifical (C) for the model in the deal (Copyling devices in the Copyling devices	2
MU *** Ensemble (see	list below) ³²		4
<u>Mathematics</u>		· 1B	3
Electives			<u>3</u> 4
	Tot	al Credits	29
SOPHOMORE			
ETST 250/HIST 250	African American History (GT-HI1)	alan reservices automorphisms and the contract of the contract	3
<u>MU 154</u>	Jazz Piano Class	на водина на населения и повод на ставо на почения на населения на на населения на на населения на населения на населения на на на населения на на на на на на на	
<u>MU 217</u>	Music Theory III	т — шинин каналында оны жайын атты этом этом оно оно оно оно оно оно оно оно оно о	termens in i sent un continue stat de constité aussité de se
MU 218	Music Theory IV	CONTRACTOR AND THE SECOND CONTRACTOR AND ENGINEERING AND	Secretaria e con di riberio di Secreta di Andria d
MU 225	Jazz Theory		2
Applied Music Instructi	on – Lower-Division (see list below) ²⁴		2
Applied Jazz Instruction	ı (select two credits from the following): ²⁺		
MU 274A	Applied Jazz Instruction: Piano	uarsuuri pan 77 ga milinaaga qabanalaa roomkaallikii joli ohay milihaalaabaadaa aanaanee vaeneelaasia ili ili u uu uuseen (ohaa jo	2
MU 274B	Applied Jazz Instruction: String Bass	uarusununukaassan kirval kiral (kirkal kirka) kirka kirka kirka kirka kirka kirka kirka kirkan kirkan kirkan k	2
MU 274C	Applied Jazz Instruction: Trombone	atud az Erden (pungunal digit kan (pita kahar artikaka Artik (Pita kahar) (Pita kahar) (Artik Adam atah 1974) (Pita kahar) (Artik Adam atah Artik Artik Adam atah Artik	2
MU 274D	Applied Jazz Instruction: Trumpet	gements of a fill and produce the contract of	2
MU 274E	Applied Jazz Instruction: Percussion	ma, i kaka, jak dagga di suluan day katalan pana suna, suna, sekara kenan menumbah di dari melebih mel	2
MU 274F	Applied Jazz Instruction: Saxophone		2
3377 A#427	Applied Jazz Instruction: Guitar		2
MU 2/40			4
	list below) $^{\frac{3}{2}}$		
MU *** Ensemble (see	list below) ²² General Psychology (GT-SS3)	3C	
MU *** Ensemble (see PSY 100		3C 2	
MU 274G MU *** Ensemble (see PSY 100 Advanced Writing Biological and Physica	General Psychology (GT-SS3)		3

MU 272L

Applied Music Instruction: Harp

t yn ennien y my eingen fan typ y en e y flyn ylan ynnegenje yn de fannin den i'r teinidd diwleidd ar de fan d			
<u>MU 317</u>	Music Theory V		2
MU 320	Jazz Improvisation	NEGGE ANNOLOGIST (ANNOLOGIST ANNOLOGIST ANNO	1
MU 325	Jazz Composition/Arranging	. On the continuous continuous continuous continuous continuous continuous de continuo	2
MU 334	Music History I	4A,4B	3
MU 335	Music History II	4A,4B	3
MU 471	Recital	4C	1
MU 474	Applied Jazz Instruction		4
MU *** Ensemb	ele (see list below) ²²		2
MU *** Music F	Electives	ayan mara asalan sana ana ana ana ana ana ana ana ana	6
Arts and Huma	<u>nities</u>	3B	3
Elective		Transistation and Control of the American Control of the American Control of the	3
		Total Credits	30
SENIOR			
MU 332	History of Jazz	o maridana di mario no magambo se per metre e dall'i diago de proponente per administra de con de confrance de contra de contr	a tambilando atrodo cumo tambila de de de atrodo de inversata e atro
MU 415	Advanced Jazz Techniques	ann de en victoria de la segui en l'en colonia de la colon	2
MU 425	Jazz Pedagogy		2
NIU 471	Recital	4C	1
MU 474	Applied Jazz Instruction	പ്പൂരിക്കുക പ്രവാദ്യക പ്രവാദ്യവുന്നു. അവ്യാപ്രവാദ്യക്കാരായ അവരെ വാദ്യക്കാരായ വാദ്യക്കാര്യ വാദ്യക്കാര്യ വാദ്യക	4
MU *** Ensemb	ole (see list below) ¹²	oon, see vermone rangemen oo beer die bestel die en de vermone die beland de velde de beken werde die 'n de de de vermone de de vermone de verm	2
Biological and F	Physical Sciences	3 A	transact an eller british de militari en eller de militari en eller anno de militari en eller anno
Global and Cult	tural Awareness	3E	a politica antinon communicación habitamente citat a citatich consistente citatich distribution de la citatich consistente de la
Electives ⁴		он у на применения в применения в применения в предоставления в предостав	9
		Total Credits	30
m _a star e e til fre e meglærerede flemperfrem ett end mågeldesdemidettedgem	Program Total Credits:	au annium ang annium den an den de troit i neu a mart an taland trans di den de den med d'en de 1964 d'en ar de détins. A d'els a training de	120
App	lied Music Instruction - Lower-Division		
Code	Title		Credi
MU 272A	Applied Music Instruction: Euphonium	a o com a sua amunua amanden errol da el di discribe den de	1-
MU 272B	Applied Music Instruction: French Horn	men and unsurprise the community of the state of the stat	1 -
MU 272C	Applied Music Instruction: Trombone	autore des princes des princes industrials princes princes de princes de la companya del la companya de la companya del la companya de la com	1
MU 272D	Applied Music Instruction: Trumpet	ом фиционульной у ст. с. Удене том, вывор от страну и построй постоя по построй постоя по ст. то обосной често постоя в обосной постоя в обосновной постоя в обосновного в обосновной постоя в обосновное в обосновного в обосн	1-
MU 272E	Applied Music Instruction: Tuba		1-
MU 272G	Applied Music Instruction: Harpsichord		1 •
MU 272H	Applied Music Instruction: Organ	The state of the s	1.
MU 272I	Applied Music Instruction: Piano		1.
MU 272J	Applied Music Instruction: Percussion		1.
MU 272K	Applied Music Instruction: Guitar		1-
	TO SEE THE SEE OF THE SEE SEE SEE SEE SEE SEE SEE SEE SEE S	A CONTRACTOR OF THE PROPERTY O	1

1-2

Code	Title		Credits
MU 272M	Applied Mus	ic Instruction: String Bass	1-2
MU 272N	Applied Mus	ic Instruction: Viola	1-2
MU 2720	Applied Mus	ic Instruction: Violin	1-2
MU 272P	Applied Mus	ic Instruction: Violoncello	1-2
MU 272Q	Applied Mus	ic Instruction: Voice	1-2
<u>MU 272R</u>	Applied Mus	ic Instruction: Bassoon	1-2
MU 272S	Applied Mus	ic Instruction: Clarinet	1-2
MU 272T	Applied Mus	ic Instruction: Flute	1-2
MU 272U	Applied Mus	ic Instruction: Oboe	1-2
MU 272V	Applied Mus	ic Instruction: Saxophone (Alto)	1-2

Ensemble Courses

Code	Title	Credits
MU 201	Men's Chorus	1
MU 202	University Chorus	1
MU 204	Marching Band	1
MU 205	Concert Band	1
MU 206	Colorado State University Concert Orchestra	1
MU 300	Women's Chorus	1
MU 302	University Orchestra	1
MU 304	Symphonic Band	1
MU 305	Colorado State University Concert Choir	1
MU 309	Jazz Ensemble	1
MU 310	Jazz Combo	1
MU 400	Colorado State University Chamber Choir	1
MU 401	Opera Theater	1-2
MU 402	Theater/Chamber Orchestra	1
<u>MU 404</u>	Symphonic Wind Ensemble	1
MU 407	Accompanying	1
MU 408	Chamber Music	1

¹ B.M. Majors with prior keyboard experience may test out of MU 150 and use the credit toward electives. Major instrument, two semesters for freshman and sophomore.

Major instrument, two semesters for freshman and sophomore. Students enrolled in <u>MU 272A MU 272V</u> should be concurrently enrolled in a concert band (<u>MU 205</u>, <u>MU 304</u>, <u>MU 404</u>). Eight of the total ensemble credits should be satisfied through participation in either <u>MU 309</u> or <u>MU 310</u>.

Students enrolled in MU 272A-MU 272V should be concurrently enrolled in a concert band (MU 205, MU 304, MU 404). Eight of the total ensemble credits should be satisfied through participation in either MU 309 or MU 310. Select enough elective credits to bring program total to 120 credits, of which at least 42 must be upper division (300-400 level).

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



College of Liberal Arts Department of Music, Theatre, and Dance BM in Music Performance Concentration, Orchestral Instrument Option

Effective Fall 2016

A minimum grade of C is required in all music courses used to satisfy the requirements of the BM in Music, Performance Concentration, Orchestral Instrument Option.

FRESHMAN			
		AUCC	CREDITS
<u>CO 150</u>	College Composition (GT-CO2)	1A	3
<u>MU 117</u>	Music Theory I		4
MU 118	Music Theory II		4
<u>MU 131</u>	Introduction to Music History and Literature (GT-AH1)	3B	3
MU 150 ¹	Piano Class I	¥	111
Applied Music Instruction	n – Lower-Division (see list below) ^{2,4}	ym Parlos dar de com Parlos de deservolos de deservolos de la Persona de la Persona de deservolos de deservolos de deservolos de defendados de la Persona de defendados de la Persona de defendados de la Persona de	2-4
MU *** Ensemble (see lis	st below) ^{3,2}	ungka at kang-tarran kanan	2
Historical Perspectives		3 D	**************************************
Mathematics		1B	and the second s
Electives		oos - (-)	3-54-6
	Total Cre	edits	28-32
SOPHOMORE			
MU 217	Music Theory III	ogspekkendel i Ermer er geler månnare egen ommant, dimens jure-dyt glavne dat (til preden sydne sydne and charle) for Andrel delektrik	4
MU 218	Music Theory IV		4
Applied Music Instruction	n – Lower-Division (see list below) ²⁴		4
MU *** Ensemble (see li	st below) ³²	a-aksidetisisian * antaissisuuduse gartalaudusendeden audusend pendemendeleksilötis videsilötisii.	2
<u>PSY 100</u>	General Psychology (GT-SS3)	30	3
Advanced Writing		2	3
Electives		eg kanada ka	11
	Total Cro	edits	31
JUNIOR		en e	
MU 254	Beginning Conducting		2
MU 317	Music Theory V		2
MU 318	Arranging and Orchestration		2
MU 334	Music History I	4A,4B	3

126

MU 335	Music History II	isan makan kanan makan makan makan makan makan makan makan isan maka isan makan makan makan makan makan makan m	4A,4B	3
MU417	Counterpoint	SCONDERS FOR A SECTION OF THE SECTIO		3
MU 471	Recital			1
Applied Music Ins	truction – Upper-Division (se	e list below) ⁴³		4
MU *** Ensemble	(see list below) ³²			2
Arts and Humani	ties		3B	3
Electives				4
		T	otal Credits	29
SENIOR				
MU 471	Recital	, колон општо техностично от точно, и то и ловой пото точно точно точно от точно, и точно общенова выдачива в	4C	1
Applied Music Ins	truction – Upper-Division (se	e list below) ¹³		4
MU *** Ensemble	(see list below) ³²			2
MU *** Electives		u Comman, ang ang Paling Bandang kan ming kanggang kan kan manggang kan kan manggang kan kan manang kan manang Kanggang kan manggang kan manggang kan manggang kan manggang kan manggang kan manggang kan manang kan manang ka		3
Biological and Ph	ysical Sciences	Agendaci na glaci cagal el com mano (que aporpue sena tros estendar energia quel menticolorido quel minimo com como este este el como este el co	3A	7
Global and Cultu	ral Awareness		3E	3
Electives ⁵				8-12
and a supervision of a construction of a construction of the total server the	until set i deput de Lant I males met deminente est enteretain ament dels mets i del dels mis dels dels metodes del	\mathbf{r}	otal Credits	. 28
	and the second state of the control of the control of the second of the	A SERVICIO DE LA COMPANSA DEL COMPANSA DE LA COMPANSA DEL COMPANSA DE LA COMPANSA DEL COMPANSA DE LA COMPANSA DE LA COMPANSA DE LA COMPANSA DEL COMPANSA DE LA COMPANSA DEL COMPANSA DE LA COMPANSA DEL COMPANSA DE LA C	AND	

Code	Title	Credits
MU 272A	Applied Music Instruction: Euphonium	1-2
MU 272B	Applied Music Instruction: French Horn	1-2
<u>MU 272C</u>	Applied Music Instruction: Trombone	1-2
MU 272D	Applied Music Instruction: Trumpet	1-2
MU 272E	Applied Music Instruction: Tuba	1-2
MU 272G	Applied Music Instruction: Harpsichord	1-2
<u>MU 272H</u>	Applied Music Instruction: Organ	1-2
MU 2721	Applied Music Instruction: Piano	1-2
MU 272J	Applied Music Instruction: Percussion	1-2
MU 272K	Applied Music Instruction: Guitar	1-2
MU 272L	Applied Music Instruction: Harp	1-2
MU 272M	Applied Music Instruction: String Bass	1-2
MU 272N	Applied Music Instruction: Viola	1-2
MU 2720	Applied Music Instruction: Violin	1-2
MU 272P	Applied Music Instruction: Violoncello	1-2
MU 2720	Applied Music Instruction: Voice	1-2
<u>MU 272R</u>	Applied Music Instruction: Bassoon	1-2

Code	Title	Credits
MU 272S	Applied Music Instruction: Clarinet	1-2
MU 272T	Applied Music Instruction: Flute	1-2
<u>MU 272U</u>	Applied Music Instruction: Oboe	1-2
MU 272V	Applied Music Instruction: Saxophone (Alto)	1-2
Applied	Music Instruction - Upper-Division	
Code	Title	Credits
MU 472A	Applied Music Instruction: Euphonium	1-2
MU 472B	Applied Music Instruction: French Horn	1-2
MU 472C	Applied Music Instruction: Trombone	1-2
MU 472D	Applied Music Instruction: Trumpet	1-2
MU 472E	Applied Music Instruction: Tuba	1-2
MU 472G	Applied Music Instruction: Harpsichord	1-2
MU 472H	Applied Music Instruction: Organ	1-2
MU 4721	Applied Music Instruction: Piano	1-2
<u>MU 472J</u>	Applied Music Instruction: Percussion	1-2
MU 472K	Applied Music Instruction: Guitar	1-2
MU 472L	Applied Music Instruction: Harp	1-2
MU 472M	Applied Music Instruction: String Bass	1-2
MU 472N	Applied Music Instruction: Viola	1-2
MU 472O	Applied Music Instruction: Violin	1-2
MU 472P	Applied Music Instruction: Violoncello	1-2
MU 472Q	Applied Music Instruction: Voice	1-2
MU 472R	Applied Music Instruction: Bassoon	1-2
MU 472S	Applied Music Instruction: Clarinet	1-2
MU 472T	Applied Music Instruction: Flute	1-2
MU 472U	Applied Music Instruction: Oboe	1-2
MU 472V	Applied Music Instruction: Saxophone (Alto)	1-2
Ensembl	le Courses	
Code	Title	Credits
MU 201	Men's Chorus	
MU 202	University Chorus	
MU 204	Marching Band	1
MU 205	Concert Band	
MU 206	Colorado State University Concert Orchestra	1
MU 300	Women's Chorus	
MU 302	University Orchestra	1
MU 304	Symphonic Band	



Code	Title	Credits
MU 305	Colorado State University Concert Choir	1
MU 309	Jazz Ensemble	1
MU 310	Jazz Combo	1
MU 400	Colorado State University Chamber Choir	1
MU 401	Opera Theater	1-2
MU 402	Theater/Chamber Orchestra	1
MU 404	Symphonic Wind Ensemble	1
MU 407	Accompanying	1
MU 408	Chamber Music	1

- 1 Students with previous keyboard experience may test out of MU 150 and use the one credit for an elective. Major instrument.

 Take two semesters each during the freshman and sophomore years.
- Major instrument. Take two semesters each during the freshman and sophomore years. Students must participate in an ensemble during each semester in which they are enrolled in MU 172A MU 172B, MU 272A MU 272V, and MU 472A MU 472V. At least once during the program of study, this must be achieved by taking MU 408 or through another small ensemble experience.
- 3 Students must participate in an ensemble during each semester in which they are enrolled in MU 172A-MU 172B, MU 272A-MU 272V, and MU 472A-MU 472V. At least once during the program of study, this must be achieved by taking MU 408 or through another small ensemble experience. Major instrument. Take two semesters each during the junior and senior years.
- 4 <u>Major instrument. Take two semesters each during the junior and senior years.</u> Select enough elective credits to bring the program total to 120, of which at least 42 must be upper division (300 to 400 level).
- Select enough elective credits to bring the program total to 120, of which at least 42 must be upper-division (300- to 400-level).



College of Liberal Arts
Department of Music, Theatre, and Dance
BM in Music
Performance Concentration, String Pedagogy Option

Effective Fall 2016

A minimum grade of C is required in all music courses used to satisfy the requirements of the BM in Music, Performance Concentration. String Pedagogy Option.

FRESHMAN AUCC CREDITS 3 1A College Composition (GT-CO2) CO 150 4 Music Theory I MU 117 4 Music Theory II MU 118 Introduction to Music History and Literature (GT-AH1) 3B 3 MU 131 1 Piano Class I MU 150¹ Select two semesters from the following:24 2 Applied Music Instruction: String Bass MU 272M 2 MU 272N Applied Music Instruction: Viola

<u>MU 2720</u>	Applied Music Instruction: Violin		2
MU 272P	Applied Music Instruction: Violoncello		2
MU *** Ensemble (see li	ist below) ³²		2
Historical Perspectives		$3 \mathrm{D}$	
<u>Mathematics</u>		$1\mathrm{B}$	
Electives		registration of the second services of the second services of the second	<u>5</u> €
or		Total Credits	30
SOPHOMORE			
MU 217	Music Theory III	ang 1941 sa ing kalaka pagadané Angalawan sa pangananan na ngandakata mané sa manananahan ana malawa mananahat	sk atmusiatelatetaren tillen kermette kastilik kanten til en kollen kermet. L
MU 218	Music Theory IV	hay gigita yadan da Yagan katan aya atau ayada da	apama. Zammanilapamaninin ya alia masama miniminini Waliominini Kaliomini (Kaliomini Kaliomini K
Select two semesters from	n the following: ²⁴	,	
<u>MU 272M</u>	Applied Music Instruction: String Bass	ago o primo y delenidar y propositi depor sua pero comprendente con 1 de 1900, de altrico de 1900, de 1900 en 1	1-2
MU 272N	Applied Music Instruction: Viola	rocean i i i i i i i i i i i i i i i i i i i	1-2
MU 2720	Applied Music Instruction: Violin	y ventauren japaisen, vikurian istoliet eigit eri en repaisement vikurian vikurian en eta eta eta eta eta eta e	1-2
MU 272P	Applied Music Instruction: Violoncello	Accessed from an American security of the general angle of the analysis of the angle of the angle of the American State of the angle of the American State	1-2
MU *** Ensemble (see li	ist below) ²²		
PSY 100	General Psychology (GT-SS3)	anne successor successor anno successor anno successor de la conferencia de la conferencia de la conferencia d 30	
Advanced Writing		in summanimum seminaterial to a subsective that the triple t_1 - t_2 to t_3 and t_4 in the triple t_4 and	
Elective		alanggar sakannanda visas erre errença s me ri deligen, i natri digi erreşter erre, bir iyê deleştirdi dengekir içi delettek bekekeri sana	10-12
		Γotal Credits	28-32
JUNIOR			
MU 254	Beginning Conducting	inganing personal removement extension and remove distinct the removable of removal self-1919 1919 1919 1919 1	kingkanaki krasmanaaniny cira samana addise
MU 317	Music Theory V	is saar maanninaannen vaar vees meers ans see seen mile vees meers veel een veel villet vitteelijk van te veet	
MU 318	Arranging and Orchestration	ans, sauces and in presentations and ordered and ordered community of states in the desired community of the	
MU 334	Music History I	4A,4B	
MU 335	Music History II	4A,4B	
Select two credits from the	ne following:		
MU 351A	String Pedagogy I: Violin/Viola.	enacionem romantici en el CCE (Al Mill. Prenische Wederlichten von sehr). Einzühle mend (pemberenke betrecht Al CCE (Al Mill. Prenische Al CCE (Al Mill. Prenische Al Mill. Al Mill. Prenische Al Mill. Al Mill. Prenische Al	
MU 351B	String Pedagogy I: Violoncello	assaurusaan vahadamitel hiller jarigi, ver liiginetissija jaridistija (1900) damitelija (1904) damitelija dami	nne Controversión and an 2 montrament all name frame d'implicate d'implicate d'implicate d'implicate d'implica
MU 351C	String Pedagogy I: String Bass	regordings and the term to the complete of the	openiorania (m.C.) (libral) que e « « » (metito empre deserreque trassitativa de
Select two credits from the	ne following:		
MU 352A	String Pedagogy II: Violin/Viola		
MU 352B	String Pedagogy II: Violoncello		
<u>MU 352C</u>	String Pedagogy II: String Bass	от водо на на того на того на населения на постоя на постоя на населения на на постоя	
MU 417	Counterpoint		
Applied Music Instruction	n – Upper-Division (see list below) ¹³		4
MU *** Ensemble (see I	ist helow) ³²	oww.com.com.polium.com.com.com.com.com.com.com.com.com.co	ummacamana alla na nacemana na namerica dimediaetro tribeta.



Select one from the	following:	Nadarijana kai makan, akikan da jaka kai Aparan na kaika da da kai kai kai kai kai kai kai kai kai ka	
PSY 260	Child Psychology		3
PSY 465	Adolescent Psychology		3
Arts and Humanit	<u>ies</u>	3B	3
		Total Credits	31
SENIOR			
Select two credits fr	om the following:		
MU 451A	String Pedagogy III: Violin	a para ministram news anne a men engaman mangan mangan (a 1907) meli Peri Berberi (a ministram a news a 1904) (immelience) menengaman (a 1904). It is berberi (a ministram a news a 1904) (immelience) menengaman (a 1904) (immelience	2
MU 451B	String Pedagogy III: Violoncello	on, and the company and an anti-state and a state of the	2
<u>MU 451C</u>	String Pedagogy III: String Bass		2
Select two credits fr	om the following:		
MU 464A	String Literature: Violin/Viola		2
MU 464B	String Literature: Violoncello	uspianis punka nada kandan muusus (joya yhtimahan urkao)ope i rondisiska andarektiin minesti. San eeraan johan keeste ja yakada kilamina harkan ka ka ee ka	2
MU 464C	String Literature: String Bass	и и под под при до при до при до при до при до предоставления на при при до предоставления на при до при до предоставления на предоставлен	2
MU 471	Recital	4C	1
Applied Music Inst	ruction – Upper-Division (see list below) ^{4,3}	ngaan a singa, vennya mingaarnya ngaajaa yangka sang kandindah akinda in 5 kalin sidenda ni sinda inda min in elikulin ti i	4
MU *** Ensemble		макмите з метонично може и технологи минического може на може и достой в поставления дена достой подательной подательно	2
MU *** Music Elec		$0.024 \pm 0.000 \pm 0.00$	and the second design of the s
Biological and Phy	y group for the second control of the second	where 2	7
Global and Cultur	and the second s		
Electives ⁵	HI A PHE CITCAL	narity, yan algania, a kepanisakkin samanini. Jugah 140 sakit Paninanin 1924 dalamahki 240 sahi bahar 1920-centra samanin da sergah masan ada	2-6
		Total Credits	26-30
And the second of the second s	Program Total Credits:	Agenting and the properties of the companies of the compa	120
A (*			120
Applie Code	ed Music Instruction - Upper-Division Title		Cred
en reconstruire de la contraction de la contract	2.000		
MII 472.A	Applied Music Instruction: Euphonium		
	Applied Music Instruction: Euphonium Applied Music Instruction: French Horn		
MU 472B	Applied Music Instruction: French Horn		
MU 472B MU 472C	Applied Music Instruction: French Horn Applied Music Instruction: Trombone		
MU 472A MU 472B MU 472C MU 472D MU 472E	Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet		
MU 472B MU 472C MU 472D MU 472E	Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba		
MU 472B MU 472C MU 472D MU 472E MU 472G	Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord		
MU 472B MU 472C MU 472D MU 472E MU 472G MU 472H	Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord Applied Music Instruction: Organ		
MU 472B MU 472C MU 472D MU 472E MU 472G MU 472H MU 472I	Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord Applied Music Instruction: Organ Applied Music Instruction: Piano		
MU 472B MU 472C MU 472D MU 472E MU 472G MU 472H MU 472I MU 472J	Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord Applied Music Instruction: Organ Applied Music Instruction: Piano Applied Music Instruction: Percussion		
MU 472B MU 472C MU 472D	Applied Music Instruction: French Horn Applied Music Instruction: Trombone Applied Music Instruction: Trumpet Applied Music Instruction: Tuba Applied Music Instruction: Harpsichord Applied Music Instruction: Organ Applied Music Instruction: Piano		

Credits

1

1-2

1

1

1

University Curriculum Committee February 5, 2016 Page 37

Code

MU 400

MU 401

MU 402

MU 404

MU 407

MU 408

Title

MU 472N	Applied Music Instruction: Viola	1-2
MU 4720	Applied Music Instruction: Violin	1-2
MU 472P	Applied Music Instruction: Violoncello	1-2
MU 472Q	Applied Music Instruction: Voice	1-2
MU 472R	Applied Music Instruction: Bassoon	1-2
MU 472S	Applied Music Instruction: Clarinet	1-2
MU 472T	Applied Music Instruction: Flute	1-2
MU 472U	Applied Music Instruction: Oboe	1-2
MU 472V	Applied Music Instruction: Saxophone (Alto)	1-2
Ense	emble Courses	
Code	Title	Credits
MU 201	Men's Chorus	1
MU 202	University Chorus	
MU 204	Marching Band	1
MU 205	Concert Band	
MU 206	Colorado State University Concert Orchestra	1
MU 300	Women's Chorus	1
MU 302	University Orchestra	1
MU 304	Symphonic Band	1
MU 305	Colorado State University Concert Choir	1
MU 309	Jazz Ensemble	1
MU 310	Jazz Combo	1
		and the second s

Colorado State University Chamber Choir

Opera Theater

Accompanying
Chamber Music

Theater/Chamber Orchestra

Symphonic Wind Ensemble

^{1 &}lt;u>Students with previous keyboard experience may test out of MU 150 and use the one credit for an elective.</u> Take two semesters each in the freshman and sophomore years.

² Take two semesters each in the freshman and sophomore years. Students must participate in an ensemble during each semester in which they are enrolled in MU 172A MU 172B, MU 272A MU 272V, and MU 472A MU 472V. At least once during the program of study, this must be achieved by taking MU 408 or through another small ensemble experience.

³ Students must participate in an ensemble during each semester in which they are enrolled in MU 172A-MU 172B, MU 272A-MU 272V, and MU 472A-MU 472V. At least once during the program of study, this must be achieved by taking MU 408 or through another small ensemble experience. Major instrument. Take two semesters each in the junior and senior years.

⁴ <u>Major instrument. Take two semesters each in the junior and senior years.</u> Select enough elective credits to bring the program total to 120, of which at least 42 must be upper division (300- to 400-level).

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



College of Liberal Arts
Department of Music, Theatre, and Dance
BM in Music
Performance Concentration, Voice Option

Effective Fall 2016

A minimum grade of C is required in all music courses used to satisfy the requirements of the BM in Music, Performance Concentration, Voice Option.

FRESHMAN			
		AUCC	CREDITS
<u>CO 150</u>	College Composition (GT-CO2)	1A	g
MU 117	Music Theory I	in (M. Singapa taga daja rajada jan (Sinapajan) pendembahan kepata ketaura pendiga pendembahan	4
<u>MU 118</u>	Music Theory II	mojamos (Saddyneuspamos an Archael (Saddock February), adjandynaeth y seddocyddol (Archael Archael Arc	4
<u>MU 131</u>	Introduction to Music History and Literature (GT-AH1)	3B	3
MU 150	Piano Class I	о организация и под на под обогду по под должного по се	1
MU 172A	Freshman Voice Studio: English/Italian		2
MU 172B	Freshman Voice Studio: German, French	m y menyage - nyady i narenyan menyangan y nyamen naganaganand	2
MU *** Ensemble ²⁺		n makeumeterskunster (n. 1921 – met 2004) och 1924 – meterskunster (n. 1924) och 1924	and the second common the complete and the proposed difference and complete and the second difference and the second diffe
<u>PSY 100</u>	General Psychology (GT-SS3)	3C	3
Biological and Physical Sciences		3A	agramma in our antennae sperims aur manarem internationalis del menoritationel.
Mathematics		1B	3
	Total Credits	enty variables o viville is not e subbeautor o prima i mily mai mily delle individual pri	3130
SOPHOMORE			
LITA *** Foreign Language (Italia	an)	о и по по по почени на принципа на принципа на почени на почени на почени на почени на почени на почени на поч	5
MU 217	Music Theory III	luuvuuri 1. nattiinen non muletti ali kustoide lähentiinen auren notaavatain kuseen taitiin ja ja ja ja ja ja j	yer ya majayaka di mayarin aran i jayan ka asir di yani daganan e ye igi atalahiyi i jamaya kanan kababanin ar 4
MU 218	Music Theory IV	ekorer sanne vasiblenne sallet in determekonere district schools - 1 th. Canal hyveter vasit i	4
MU 272Q ³²	Applied Music Instruction: Voice	ander de la companya	4
MU 365A	Advanced Diction: Italian and English	androdesia de est, et e esta est produce esta esta esta esta esta esta esta est	en neumenonoma ar o'innerenno e e e d'orie - e d'orie - e d'orie e e d'orie e e d'orie - e d'orie - e d'o 1
<u>MU 365B</u>	Advanced Diction: French and German	in characteristic communication in the communication of the communicatio	egar yang kanggang pengang di gampagan kanangan at a yan stari and silik kananda da tarawi op kan gan gan gan 1
MU *** Ensemble ²⁺		a el campo que communidade que construir en mentra de la composição de confedência en construir de confedência	2
TH 352	Acting for Singers	y rates, y glycentylleter av Pasinahalaskalaskalaskalaskalaskalaskalaskala	occessor, user illusers a la cue est est est est est est est est est es
Advanced Writing		2	3
Arts and Humanities		3B	3
opper versig i di di uma di siduat i siduat di ni di suma diduat dia daga siduat di uma per per per pengendi mentendependa pendigen	Total Credits		29
JUNIOR			a antana ngaran a ay na garan aka ay na iy na ita namanga ameni itan antiga ili ili ili iki iki ili mehi

LGER *** Foreign Language (Ger	man)		5
— сили-т-ница с описани и и почения — сторового - часто - провения и и и и и и и и и и и и и и и и и и	Beginning Conducting		2
<u>MU 317</u>	Music Theory V		2
<u>MU 334</u>	Music History I	4A,4B	3
<u>MU 335</u>	Music History II	4A,4B	3
<u>MU 417</u>	Counterpoint		3
<u>MU 471</u>	Recital		1
MU 472Q ³²	Applied Music Instruction: Voice		4
MU *** Ensemble ²⁴			2
	To	tal Credits	30
SENIOR			
<u>MU 338</u>	Opera History and Literature	ukar oranaksa saraman osa sakalimaliki kualanda orana ministra milistraki matikaliki kuastaman into mora minist	· 2
MU 466	Song Literature	us semus au macemanico anno enver reseauce d'arment debender à debender à la fair inhibitet voir à platfemit, (inhibitet des	2
MU 467	Vocal Pedagogy	and against a market from 17 and a market and a market from the first from the fi	2
MU 471	Recital	4C	1
MU 472Q ³²	Applied Music Instruction: Voice	apatak dentinakaban sa sates apanagan sater sa rikat managah ditaming di dan sa tanan sa sangan dagai mbamban da	4
MU *** Ensemble 24	of many distance (A ref. or free plane) and which (Distance (Di	uchangkar agar (E) disa sapatan in 1907 ini disa anamanjahin kalingga pandakada ini pangapan karin 1904 (1908).	2
Music Electives		aparatan rang unangun hiri, semindiri Perkinada anggundaka (pamilipa baba da 1951 milahan dabahan Perkinada me	3
Biological and Physical Sciences		3A	3
Global and Cultural Awareness		$3\mathrm{E}$	3
Historical Perspectives		$3\mathrm{D}$	3
Electives ⁴³	uspanning for triple actions of the provided commission of primary and commission of the provided comm	y pausan'i Ajamauntawa hasi siga ka halindi in di dalah in nometri foliosopi di dalah in di dalah dalah dalah d	56
a a a a a a an ang taon tao 1964 1970 a a a aga a an an analysina ta an antana 1964 a an an an an an an an an	To	tal Credits	<u>30</u> 34
y a ye ye ye ye da amana a angan a sana a aka a sa a sa a sa a sa a a a a a a	Program Total Credits:	a garage (tagagaga gang)) kan yang mang taman memberah di daraman membaga derimbah sah saharaman kebebaran melaman saharam	120

Ensemble Courses

Code	Title Credits
MU 201	Men's Chorus 1
MU 202	University Chorus 1
MU 204	Marching Band 1
MU 205	Concert Band 1
MU 206	Colorado State University Concert Orchestra 1
MU 300	Women's Chorus 1
MU 302	University Orchestra 1
MU 304	Symphonic Band 1
<u>MU 305</u>	Colorado State University Concert Choir 1
MU 309	Jazz Ensemble 1

Code	Title	Credits
MU 310	Jazz Combo	1
MU 400	Colorado State University Chamber Choir	1
NIU 401	Opera Theater	1-2
MU 402	Theater/Chamber Orchestra	1
NIU 404	Symphonic Wind Ensemble	1
<u>MU 407</u>	Accompanying	1
MU 408	Chamber Music	1

Students with previous keyboard experience may test out of MU 150 and use the one credit for an elective. Students must participate in an ensemble during each semester in which they are enrolled in <u>MU 172A MU 172B</u>, <u>MU 272A MU 272A MU 272V</u>, and <u>MU 472A MU 472V</u>. At least once during the program of study, this must be achieved by taking <u>MU 408</u> or through another small ensemble experience.

- Students must participate in an ensemble during each semester in which they are enrolled in MU 172A-MU 172B, MU 272A-MU 272V, and MU 472A-MU 472V. At least once during the program of study, this must be achieved by taking MU 408 or through another small ensemble experience. Take two semesters each during the sophomore, junior, and senior years.
- ³ Take two semesters each during the sophomore, junior, and senior years. 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).
- 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- to 400-level).



College of Natural Sciences
Department of Computer Science
Major in Computer Science

Effective Fall 2016

FRESHMAN			
		AUCC	CREDITS
<u>CO 150</u>	College Composition (GT-CO2)	1A	3
<u>CS-160</u>	Foundations in Programming	-	4
<u>CS 161</u>	Object-Oriented Problem Solving		4
<u>CS 192</u>	First-Year Seminar-Computer Science		2
CS163 or CS164 (replaces CS160)	Java (CS1) No Prior Programming Java (CS1) Prior Programming		4
CS165 (Replaces CS161)	Java (CS2) Data Structures and Algorithms		4
<u>MATH 160</u>	Calculus for Physical Scientists I (GT-MA1)	1B	4
<u>MATH 161</u>	Calculus for Physical Scientists II (GT-MA1)	1B	4
Select at least two courses from two de (one course must be or include the sequ	epartments totaling a minimum of 7 credits from the following uenced laboratory):		7
BZ 110 & BZ 111	Principles of Animal Biology (GT-SC2)	3A	
<u>BZ 120</u>	Principles of Plant Biology (GT-SC1)	3A	
<u>CHEM 107</u>	Fundamentals of Chemistry (GT-SC2)	3A	

& <u>CHEM 108</u>		ga "kuusuksi" oo uu o	omen American myslethers. I filmfolish francosis almost filmfolish on seems fusion
<u>CHEM 111</u> & <u>CHEM 112</u>	General Chemistry I (GT-SC2)	3A	
GEOL 120 & GEOL 121	Exploring Earth: Physical Geology (GT-SC2)	3A	
LIFE 102	Attributes of Living Systems (GT-SC1)	3A	
PH 141	Physics for Scientists and Engineers I (GT-SC1)	3A	
Electives			3
	Total Credits	manus a. u.s. sugarante, par go a l'hoposake l'appropherennai especif de hipa demanticha le proven a desc	31
SOPHOMORE			
<u>CS 200</u>	Algorithms and Data Structures	inter promotenti si kantaristi, pica kali, shikan ifakapin palaksi panasi "Co" ("Elimon Shiri Millioni consiste	4
CS220 (Replaces CS200)	Discrete Structures and their Applications		4
<u>CS 253</u>	Software Development with C++		4
<u>CS 270</u>	Computer Organization		4
MATH 229 or 369	Matrices and Linear Equations Linear Algebra I	a Albanda - Conception of the Agent Conception and Conception of the Conception of t	2-3
<u>STAT 301</u> or <u>315</u>	Introduction to Statistical Methods Statistics for Engineers and Scientists		3
Arts and Humanities		3B	3
Historical Perspectives		3D	3
Social and Behavioral Sciences		3C	3
Electives		angaga matagagagaga manganan panagan sa kanan panagaga manan manan sa mangan sa kanan sa manan sa manan sa man	2-3
e sootaanse store entweeter om het gebruik op de sootaanse en stere op de sootaanse de sootaanse en sootaanse	Total Credits	apada ya gayan ga kanana ka kanana ka gaya ya ka ka ya ka ka ya ya ka ya ka k	29
JUNIOR			
<u>CS 314</u>	Software Engineering		3
<u>CS 320</u>	AlgorithmsTheory and Practice		3
<u>CS 356</u>	Systems Security	***Shinkadaa Shi, caa **********************************	3
<u>CS 370</u>	Operating Systems		3
Select a minimum of 5 credits additionand/or from the following for a total of	al science from the list of 3A courses in the freshman year at least 12 credits:		5
AA 301	Astrophysics I	h Nagarang Mahala, sa dan 18 Manahayan dan dan 18 Manahayan dan 18 Manahayan da 18 Manahayan d	
ATS 350	Introduction to Weather and Climate	ngines, strongskriven reknist i knjige strong visi sa verskrive i 100 km/s i 100 km/s i 100 km/s i 100 km/s i	essentanona, ex-nagerial sociologicococci y pictoriologico-coccide de
ATS 351	Introduction to Weather and Climate Laboratory	er i privi jagoja, ki ka kaj seraj privaj privaj konstruktura konstruktura konstruktura protestanten sisteka k	
BZ 220	Introduction to Evolution	aken solakkon tirilahaki 1906 ti solakhin kaken kaningir yanati salahin sakan kanina ka	aanstallenn n. verminalen keelt van klauneur gest van troop van de versche verschied de troop van de verschied
<u>CHEM 113</u> & <u>CHEM 114</u>	General Chemistry II		
<u>CIVE 260</u>	Engineering Mechanics-Statics	operare missioners, sammas i visamessaksindhinamassaksinin emin klassaksilishin kilikasi emindi hi	
GEOL 154	Historical and Analytical Geology		



LIFE 201A	Introductory Genetics: Applied/Population/Conservation/Ecological (GT-S	3A (C2)	
LIFE 201B	Introductory Genetics: Molecular/Immunological/Developmental (GT-SC2	3A	an an an t-aire ann an t-aire ann ann an t-àire ann ann an t-àire ann an an ann ann an ann an an an an an
PH 142	Physics for Scientists and Engineers II (GT-SC1)	3A	erentama (jener, si famo y tijen kondok kon y viga ka jetilikadano, no jengapakan
PSY 352	Learning and Memory	akticiii-laakujaasiina oo iriyaq diginaq sidaariya aa aaraana aasuuriii. Asiri ilistoodiisasiinii 1943 koodad Paparariya haasaasa	all comments for accompanied appropriate VIII and another processing community of the comments
SOCR 330	Principles of Genetics		atrial de 19 de vocation de 19 Metros de 19 de 19 Metros de 19 de 19 Metros de 19 de 19 de 19 de 19 de 19 de 1
SOCR 331	Genetics Laboratory		
Advanced Writing		2	3
Arts and Humanities		$3\mathrm{B}$	3
Global and Cultural Awareness		$3\mathrm{E}$	3
Electives		оло со об се на навиша не се се в в принести во водинения до се об водинения вод се об водинения вод на оборжания вод вод водинения вод	3
	Total	Credits	29
SENIOR			
er en			
Group 1-A:			устурового у пото в полову, и ³ состо пото то состо (у в в тем у т.).
Select one course from the following	:		4
CS 410	Introduction to Computer Graphics	4A,4C	
CS 414	Object-Oriented Design	4A,4C	
CS 435	Introduction to Big Data	4A,4C	
<u>CS 440</u>	Introduction to Artificial Intelligence	4A,4C	
<u>CS 454</u>	Principles of Programming Languages	4A,4C	
CS 455	Introduction to Distributed Systems	4A,4C	
CS 464	Principles of Human-Computer Interaction	4A,4C	
<u>CS 475</u>	Parallel Programming	4A,4C	
Group II:			
Select at least 9 hours from the follow	ving Technical Electives:1	4B	6-9
CIS 350	Operating Systems and Networks	20	gauginto e 1 ° a decumbo y constriptivation son « consultabilità commente Perilli
CIS 355	Business Database Systems	4B	julialisador dan rediritor - Justin andiditis, reministrito e el materi
CIS 360	Systems Analysis and Design	uuru uuri suhtari ke in lamuummatamanis eeleminis eeleminis in oo	
CIS 410	Web Application Development	where ω the expression contains the classic plane and the property of the expression of the express	enemalar i i film i film fall pet e film fall enemente enemente enemente enemente enemente enemente enemente e
CIS 413	Advanced Networking and Security	$4\mathrm{B}$	of applications (control of the control of the cont
E 320	Introduction to the Study of Language	$4\mathrm{B}$, may remove y manufacturing his major (Addy). Addition the second
ECE 311	Linear System Analysis I	$_{ m constraint}$	ence a record of the individual and an individual to the Control of the Control o
ECE 312	Linear System Analysis II	4B	
ECE 331	Electronics Principles I	4B	and the second s
ECE 332	Electronics Principles II	4B	
ECE 411	Control Systems	4B	

ECE 421	Telecommunications I	4B
ECE 422	Telecommunications II	
ECE 451	Digital System Design	4B
<u>JTC 413</u>	New Communication Technologies and Society	4B
MATH 301	Introduction to Combinatorial Theory	4B
<u>MATH 317</u>	Advanced Calculus of One Variable	4B
MATH 331	Introduction to Mathematical Modeling	4В
MATH 332	Partial Differential Equations	4B
MATH 340	Introduction to Ordinary Differential Equations	4B
MATH 345	Differential Equations	4B
MATH 360	Mathematics of Information Security	4B
MATH 366	Introduction to Abstract Algebra	4B
MATH 369	Linear Algebra I	4B
MATH 405	Introduction to Number Theory	4B
MATH 417	Advanced Calculus I	4B
MATH 418	Advanced Calculus II	4B
MATH 430	Fourier and Wavelet Analysis with Apps	4B
MATH 435	Projects in Applied Mathematics	4B
MATH 450	Introduction to Numerical Analysis I	4B
MATH 451	Introduction to Numerical Analysis II	4B
MATH 460	Information and Coding Theory	4B
<u>MATH 466</u>	Abstract Algebra I	4B
MATH 467	Abstract Algebra II	4B
MATH 469	Linear Algebra II	4B
MATH 470	Euclidean and Non-Euclidean Geometry	4B
MATH 472	Introduction to Topology	4B
MATH 474	Introduction to Differential Geometry	4B
MECH 307	Mechatronics and Measurement Systems	4B
NR 322	Introduction to Geographic Information Systems	4B
NR 323	Remote Sensing and Image Interpretation	4B
NR 422	GIS Applications in Natural Resource Management	4B
NR 423	Applications of Global Positioning Systems	4B
PH 314	Introduction to Modern Physics	4B
PH 315	Modern Physics Laboratory	4B
PH 341	Mechanics	4B
PH 351	Electricity and Magnetism	4B
PH 353	Optics and Waves	4B



PH 361	Physical Thermodynamics	4B
PH 451	Introductory Quantum Mechanics I	4B
PHIL 305F	Philosophical Issues in the Professions: Information Science	4B
PHIL 410	Formal Logic	4B
PHIL 415	Logic and Scientific Method	4B
PSY 354	Human-Computer Interaction	4B
PSY 452	Cognitive Psychology	4B
PSY 456	Sensation and Perception	4B
STAT 305	Sampling Techniques	4B
STAT 340	Multiple Regression Analysis	4B
STAT 341	Statistical Data Analysis I	4B
<u>STAT 342</u>	Statistical Data Analysis II	4B
<u>STAT 350</u>	Design of Experiments	4B
STAT 372	Data Analysis Tools	4B
STAT 400	Statistical Computing	4B
STAT 420	Probability and Mathematical Statistics I	4B
<u>STAT 421</u>	Introduction to Stochastic Processes	4B
STAT 430	Probability and Mathematical Statistics II	4B
STAT 440	Bayesian Data Analysis	4B
<u>STAT 460</u>	Applied Multivariate Analysis	4B

Group 1-B:

Select three courses (not p minimum of 12 credits:	previously taken) from Group 1-A above and/or from the following for	or a	12
CS 420	Introduction to Analysis of Algorithms	4C	
CS 425	Introduction to Bioinformatics Algorithms	4C	o de la companya de
<u>CS 430</u>	Database Systems	4C	CONTRACTOR OF CO
CS 453	Introduction to Compiler Construction	4C	
CS 457	Computer Networks and the Internet	4C	
<u>CS 470</u>	Computer Architecture	4C	
Electives ²			6-9

Program Total Credits:

120

31

Total Credits

² 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).



¹ Select three courses from the CS Department Group II list for a total of 6-9 credits (6 credits if <u>MATH 369</u> is taken to meet the linear algebra requirement in the Sophomore year).

Intra-University Interdisciplinary Minor in International Development

Effective Fall 2016

Core Courses

Select 6 credits from the following	ng:	6
<u>ANTH 200</u>	Cultures and the Global System (GT-SS3)	
ECON 460	Economic Development	
<u>GR 100</u>	Introduction to Geography (GT-SS2)	
<u>IE 270/AGRI 270</u>	World Interdependence-Population and Food (GT-SS3)	
IE 470	Women and Development	
IE 471	Children and Youth in Global Context	
POLS 232	International Relations (GT-SS1)	
POLS 462	Globalization, Sustainability, and Justice	
<u>1E 479/ANTH 479</u>	International Development Theory and Practice	3

Supporting Courses Group A 1

Select at least 9 credits from the fo Development Board and advisor	llowing courses or from additional upper-division courses approved by the International	9
<u>ANTH 310</u>	Peoples and Cultures of Africa	
<u>ANTH 312</u>	Modern Indian Culture and Society	
<u>ANTH 314</u>	Southeast Asian Cultures and Societies	
ANTH 319/ETST 319	Latin American Peasantries	
<u>ANTH 329</u>	Cultural Change	
<u>ANTH 340</u>	Medical Anthropology	
ANTH 413	Indigenous Peoples Today	
ANTH 414/ETST 414	Development in Indian Country	
ANTH 415	Indigenous Ecologies and the Modern World	
ANTH 441	Method in Cultural Anthropology	
ANTH 449	Participatory Monitoring and Evaluation	
AREC 415	International Agricultural Trade	
AREC 460	Ag- and Resource-Based Economic Development	
ECON 332/POLS 332	International Political Economy	
ECON 370	Comparative Economic Systems	
ECON 440	International Economics I	
ECON 442	International Economics II	
<u>FIN 475</u>	International Business Finance	
<u>GR 320</u>	Cultural Geography	
<u>IE 472</u>	Education for Global Peace	
INST 300	Approaches to International Studies	

JTC 412	International Mass Communication
L*** Foreign languages ²	
LFRE 433A	Advanced French/Francophone Culture: Representations ³
or LFRE 433B	Advanced French/Francophone Culture: Center and Margins
MGT 475	International Business Management
<u>MKT 365</u>	International Marketing
NRRT 320	International Issues-Recreation and Tourism
PHIL 320	Ethics of Sustainability
PHIL 345	Environmental Ethics
POLS 331	Politics and Society Along Mexican Border
POLS 362	Global Environmental Politics
POLS 431	International Law
POLS 433	International Organization
POLS 442	Environmental Politics in Developing World
POLS 443	Comparative Social Movements
POLS 444	Comparative African Politics
POLS 445	Comparative Asian Politics
POLS 446	Politics of South America
POLS 447	Politics in Mexico, Central America, Caribbean
POLS 449	Middle East Politics
PSY 327	Psychology of Women
SOC 320	Population-Natural Resources and Environment
SOC 341	Sociology of Rural Life
SOC 364	Agriculture and Global Society
SOC 366	Peoples and Institutions of Latin America
SOC 429	Comparative Urban Studies
SOC 460	Society and Environment
SOC 461	Water, Society, and Environment
SOC 474	Social Movements and Collective Behavior
SOCR 475	Global Challenges in Plant and Soil Science
SOWK 450/IE 450	International Social Welfare and Development
SPCM 434	Intercultural Communication
Internship	

Supporting Courses Group B $^{\rm 1}$

Select at least 3 credits from the following courses, OR from Core Courses or Supporting Courses Group A not previously taken, OR from additional courses approved by the International Development Board and advisor:		
IE 116/AGRI 116 Plants and Civilizations (GT-SS3)		
L*** Foreign Languages ⁴		

141

University Curriculum Committee February 5, 2016 Page 47

POLS 131	Current World Problems (GT-SS1)
POLS 241	Comparative Government and Politics (GT-SS1)

Additional Requirements

International Development Events ⁵

0

Program Total Credits

21

- ¹ No more than 6 credits may be taken in any subject code from among all the supporting courses, both Group A and Group B.
- ² Select from upper-division (300- to 400-level) language courses.
- ³ Accepted only when designated "Des Questions de development a travers le cinema africain."
- ⁴ Select from any level language courses. A maximum of 6 credits are allowed for foreign language courses.
- ⁵ Students are required to participate in two on-campus events focused on international development, as approved by advisor.



The meeting adjourned at 3:55 p.m.

(FC) 2/12/2016

Carole Makela, Chair Shelly Ellerby, Curriculum Liaison Specialist

MEMORANDUM

DATE:

January 14, 2016

TO:

Mary Stromberger, Chair Faculty Council

FROM:

Rick Miranda, Provost and Executive Vice President

SUBJECT:

Approval of Spring and Summer Degree Candidates – May 2016 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 2016 SPRING AND SUMMER SEMESTERS.

Brief Bio Dr. Mary E. Stromberger Department of Soil and Crop Sciences Nominee for Chair of Faculty Council

Dr. Mary Stromberger is a Professor of Soil Microbiology in the Department of Soil and Crop Sciences, College of Agricultural Sciences, and the current Chair of Faculty Council. She has been active in Faculty Council and its standing committees since 2007, when she joined the Committee on Scholarship, Research and Graduate Education (CoSRGE) and soon afterwards the Committee on Libraries. She served as Chair of CoSRGE from 2011-2012, as her department's representative to Faculty Council in 2011-2012, as Vice Chair of Faculty Council from 2012-2014, and Chair since 2014.

During her time as Chair, Mary has worked to increase communication within Faculty Council and its standing committees, and build collaborative relationships with faculty, other employee councils, and administrators. Mary regularly engages with the Administrative Professional Council and the Classified Personnel Council to promote shared governance for all employees, and build solidarity when issues important to all employees arise. Mary actively works to promote shared governance by advocating for faculty involvement at the earliest stages of initiatives and budgetary decisions. As Chair, Mary has leadership roles in several campus initiatives, including Re-Envision CSU, affordable housing solutions, parking and transportation planning development, and recruitment and retention of diverse faculty. If re-elected, Mary will continue to advocate for shared governance and its process, and will collaborate with campus stakeholders on new initiatives related to diversity, teaching and service recognition and evaluation, career pathways for non-tenure track faculty, and long-term strategic planning.

As a Professor, Mary teaches undergraduate and graduate courses in soil ecology and microbiology. She is nationally and internationally recognized for her research in soil health and soil ecosystem services, particularly in the area of plant-microbial interactions for improved drought tolerance in winter wheat. Mary is a recipient of a Fulbright Scholar Award, the Charles N. Shepardson Faculty Teaching Award, and the Gamma Sigma Delta Faculty Award. She is active in her professional societies (Soil Science Society of America and Agronomy Society of America), and has served as the Associate Editor for the Soil Science Society of America Journal (2009-2014) and as chair of the Soil Biology and Biochemistry Division of SSSA in 2014. She has authored 40+ peer-reviewed journal articles, four technical reports, and one book chapter, and is a co-recipient of the Soil Biology and Biochemistry journal's John S. Waid Review award for most influential paper of 2013.

Brief Bio Stephanie Clemons, Ph.D., FASID, FIDEC Department of Design and Merchandising College of Health and Human Sciences

Nominee for Vice Chair, Faculty Council

Dr. Stephanie Clemons is a full professor in the Department of Design and Merchandising, College of Health and Human Sciences. Stephanie has been at Colorado State University since 1988 and most recently was recognized as a University Distinguished Teaching Scholar (2014) and recipient of the Board of Governor's Excellence in Undergraduate Teaching Award (2015). She was selected as a Fulbright Senior Program Specialist, Urban Design for the United States (2010-15).

Stephanie became involved with Faculty Council in 2003 when she served for one year on the Committee on Teaching and Learning (CoTL). From 2005 to 2009 Stephanie served on the Committee on Scholastic Standards and again on CoTL from 2010-2012. She served as the CoTL Chair from 2012-15. Two of the more visible campus-wide initiatives Stephanie has collaborated on are the "flipped classroom" pilot program and the "I Care" buttons.

As Vice-Chair of Faculty Council, Stephanie serves as a member of the Executive Committee and other committees as identified by Chair, Faculty Council. She is currently a member of the Provost Adhoc Committee for Student Success (2012-current) and attends ACUA. She is also a member on the newly developed CSU Online Advisory Committee.

In the past, Stephanie has served on many other university-wide committees including GAPS Subcommittee for Student Success (2014-15), University Graduate School Education Advisory Committee (2013, spring), International Programs Operations Committee (2013, spring), Campus Climate Sub-committee (2006), and University Faculty Honors council (2002-2004). In addition, at the college level, she has served on many committees including the CHHS Curriculum Committee (2001-2007; 2012-2013).

Within her discipline, Stephanie has been a recognized leader in several capacities including Chair, *Journal of Interior Design* (2008-2011), President of the Interior Design Educators Council (IDEC), and currently as Past Chair, Board of Directors, American Society of Interior Designers (26,000 members). She has been recognized as a Fellow by both IDEC and ASID. Several years ago, she was selected by CSU to participate in the HERS Institute - an intensive 12-day curriculum that prepares women faculty and administrators for institutional leadership roles. The Institutes focus is on knowledge, skills and perspectives for achieving institutional priorities and maximizing institutional resources.

Stephanie has received numerous awards for research, teaching and service including 2001 Colorado State University Alumni Association Best Teacher Award, University Alumni Association, Outstanding Teaching Award, College of Applied Human Sciences and Jack E. Cermak Outstanding Advisor Award, College of Applied Human Sciences. She was instrumental in procuring the recognition for the Department of Design and Merchandising as the First University Partner of Autodesk, Inc. She is author or co-author on 33 peer-reviewed journal articles, seven refereed/invited book chapter publications, 69 refereed papers (national/international), two white papers, and one comprehensive design textbook. She has been PI or CO-PI on several small research and teaching grants.

Brief Bio Dr. Paul F. Doherty, Jr. Candidate for Faculty Council Board of Governors Faculty Representative

Paul Doherty is a Full Professor in the Department of Fish, Wildlife, and Conservation Biology at Colorado State University (CSU). He has been a faculty member since 2003 and was his departmental representative to Faculty Council FA2010-SP2014 and the College of Natural Resources representative to the Faculty Council Executive Committee FA2011-SP2014. Paul served as Vice Chair of Faculty Council FA2014-SP2015 and is currently the Board of Governors Faculty Representative. Paul also currently serves on the Standing Committee on the Status of Women Faculty, President's Sustainability Committee, Advisory Committee on Undergraduate Affairs, and the Education Abroad Advisory Committee. Paul looks forward to continuing the duties of the Board of Governors Faculty Representative for a final year, and to further supporting the Chair and Faculty Council in general.

Paul received his BS in Entomology from the University of Delaware and his MS and PhD from The Ohio State University. He worked as a postdoctoral research scientist at the Université Pierre & Marie Curie /École Normal Supérieure in Paris, France as well as for the USGS Patuxent Wildlife Research Center in Laurel, MD and the US Fish and Wildlife Service in southern California prior to coming to CSU. His research is at the interface of quantitative methods and empirical wildlife biology. He has authored or co-authored > 85 peer-reviewed papers and book chapters and has an active research program.

Paul has taught 100- through 600-level classes, such as Wildlife Field Studies, Travel Abroad: Wildlife Conservation, Wildlife Data Collection and Analysis, Sampling Designs for Wildlife and Fish Studies, and Vertebrate Population Analysis. He is currently the Academic Director of the NR 220 interdisciplinary Mountain Campus summer course. He has worked closely with The Institute for Learning and Teaching on improving his courses. He teaches 2-3 workshops or short-courses around the world each year. He also advises the CSU Student Chapter of Ducks Unlimited.

Paul has served on national and international advisory committees (e.g., Federal Advisory Committee to the US Bird Banding Laboratory, Research Grade Review Panels, EURING Technical Meeting committees). Paul is currently the editor for Condor: Ornithological Applications and is a member of The Wildlife Society, The American Ornithologists' Union (elected Fellow), The Ecological Society of America, Society of Field Ornithologists, The Waterbird Society, The Cooper Society for Ornithology, and The Wilson Ornithological Society.

MEMORANDUM

DATE: December 11, 2015

TO: Mary Stromberger, Chair

Executive Committee/Faculty Council

FROM: Jennifer Aberle, Chair

Committee on Non-Tenure-Track Faculty

SUBJECT: Proposed revision to Section E.2.1.5 Temporary Appointments of the Manual

The Committee on Non-Tenure-Track Faculty

MOVES THAT Section <u>E.2.1.5 Temporary Appointments</u> OF THE *ACADEMIC FACULTY AND ADMINISTRATIVE PROFESSIONAL MANUAL* BE REVISED AS FOLLOWS:

Please note the language: additions <u>underlined</u>, deletions overscored.

E.2.1.5 Temporary Faculty Appointments (last revised May 8, 2015)

Temporary faculty appointments may be either full-time or part-time and are distinguished from other types of appointments by the expectation that the appointment is for a specified period of time, at the end of which, it is anticipated that employment at the University may not be renewed or that the member will transition to a different appointment type (see d. below). Part-time is defined as any fraction less than one hundred (100) percent of full-time. Conditions applicable to temporary appointments are:

- a. Temporary appointments are "at will" and are subject to termination by either party at any time (the process set forth in Section D.5.6 regarding the termination of "at will" appointments shall apply to temporary faculty appointments). Temporary appointments need not carry specified ending dates, but an ending date indicating the point in the future when the funding and/or appointment is expected to terminate should be included when known. The inclusion of a specified ending date on an appointment form or other such documentation is for administrative convenience only and does not create a minimum or fixed duration of appointment.
- b. Temporary appointees are not eligible for tenure.
- c. Temporary appointees are required to enroll in the retirement program and if half-time or greater are eligible to participate in other benefits offered by the University as described in the *Academic Faculty and Administrative Professional Benefits and Privileges Handbook.* Published annually by Human Resources and in Sections F and G of the *Manual*. Eligibility for sick leave is defined in Section F.3.2. Temporary appointees are eligible for faculty privileges described in

Sections G.1 - G.3. Temporary appointees are not eligible for subbatical leave (see Section F.3.4.1).

d. The University recognizes that the nature of a temporary appointment is incompatible with recurring consecutive appointments over a long period of time with an assignment of 50% or more. Therefore, after the second consecutive semester for a 9-month assignment at 50% or more time (excluding summer session) or after the first year for a 12-month assignment at 50% or more time, the faculty member's appointment shall be required to convert to a special appointment and cannot be renewed as a temporary appointment.

Rationale:

Section E.2.1.5.d is being proposed to clarify that temporary faculty on assignment for less than 50% time shall maintain a temporary appointment. This defines the nature of temporary faculty at the University and differentiates from those faculty who are hired on consistent basis with expectations of the assignment being at 50% or more time. As well, this change aligns with the Human Resource practices of denoting changes at 50% FTE such as automatically increasing the fringe rate of a faculty member who has been working at the University at 50% or more after one year of employment.

MEMORANDUM

Date: December 20, 2015

To: Mary Stromberger, Chair of Faculty Council

From: Eric Prince, Chair of the Committee on University Programs

Re: Biennial Reviews for Discontinuance and Continuance of Centers, Institutes, and Other

Special Units (CIOSUs) for the academic year 2015 (Reporting Period FY14 and FY15)

Committee on University Programs

The Committee on University Programs reviewed 51 Centers, Institutes, and Other Special Units (CIOSUs) as part of the biennial review oversight process for CIOSUs for the academic year 2015. The CUP recommendations to Faculty Council are to approve as follows:

New CIOSUs

The Committee on University Programs approved an application for a new CIOSU:

TILT- C-ALT The Center for the Analytics of Learning and Teaching (Director, Dr. James Folkestad, School of Education)

CIOSUs Consolidated, Discontinued or Denied Approval

The following CIOSUs are reported discontinued or consolidated:

CAS- SGC Center for Shortgrass Steppe Long Term Ecological Research CHHS-CHN Consortium for Human Nutrition CLA-CBRM Center for Biomedical Research in Music CLA-REI Regional Economic Institute CVMBS-CCIPM Center for Comparative and Integrative Pain Medicine

CHHS-NCVECS National Center for Vehicle Emissions Control and Safety (Merged with CHHS-IBE Institute for the Built Environment)

Continuing CIOSUs:

The 45 Centers, Institutes, and Other Special Units listed as follows, were reviewed by the Committee on University Programs and are recommended for continuance by the Committee on University Programs:

1	CAS_CMSQ	esearch Associate Dean: Jan Continuation	Center for Meat Safety & Quality		
 2	CAS_WCIRM	Continuation	Western Center for Integrated Resource Management		
	COB				
	College of Business- Research Associate Dean: Dan Ganster				
3	COB_BBI	Continuation	Beverage Business Institute		
4	COB_CASE	Continuation	Center for Advancement of Sustainable Enterprise (CASE)		
5	COB_CPDBR	Continuation	Center for Professional Development and Business Research		
6	COB_EREC	Continuation	Everitt Real Estate Center (EREC)		
	COE College of Engineering- Research Associate Dean: Sonia Kreidenweis				
7	COE_CCC	Continuation	Colorado Climate Center		
8	COE_CMMS	Continuation	Composite Materials Manufacture & Structures		
9	COE_CHILL	Continuation	CSU Chill National Weather Radar Facility		
10	COE_CIRA	Continuation	Cooperative Institute for Research in the Atmosphere		
11	COE_EECL	Continuation	Engines and Energy Conversion Laboratory		
12	COE_EUV	Continuation	EUV		
13	COE_GEO	Continuation	Graduate Geo Environmental Room/Geo Technical Lab		
14	COE_HHS_UWC	Continuation	Harold H. Short Civil Infrastructure Systems Laboratory		
15	COE_HRL	Continuation	Hydraulic Research Lab		
16	COE_ISWR	Continuation	International School of Water Resources		
17	COE-REC	Continuation	Rural Energy Center		
	CHHS				
40		es - Research Associate Dea			
	CHHS_AMOM	Continuation	Avenir Museum of Design and Merchandising		
19	CHHS_AMOM CHHS_CFCT	Continuation Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy		
19 20	CHHS_AMOM CHHS_CFCT CHHS_CEP	Continuation Continuation Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation		
19 20	CHHS_AMOM CHHS_CFCT	Continuation Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy		
19 20 21	CHHS_AMOM CHHS_CFCT CHHS_CEP	Continuation Continuation Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease at		
19 20 21 22	CHHS_AMOM CHHS_CFCT CHHS_CEP CHHS_CFSPFD	Continuation Continuation Continuation Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease at CSU		
19 20 21 22 23	CHHS_AMOM CHHS_CFCT CHHS_CEP CHHS_CFSPFD CHHS_Aging	Continuation Continuation Continuation Continuation Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease at CSU Center on Aging		
19 20 21 22 23 24	CHHS_AMOM CHHS_CFCT CHHS_CEP CHHS_CFSPFD CHHS_Aging CHHS_CHN	Continuation Continuation Continuation Continuation Continuation Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease at CSU Center on Aging Consortium for Human Nutrition		
19 20 21 22 23 24 25	CHHS_AMOM CHHS_CFCT CHHS_CEP CHHS_CFSPFD CHHS_Aging CHHS_CHN CHHS_HABIC	Continuation Continuation Continuation Continuation Continuation Continuation Continuation Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease a CSU Center on Aging Consortium for Human Nutrition Human Animal Bond in Colorado		
19 20 21 22 23 24 25 26	CHHS_AMOM CHHS_CFCT CHHS_CEP CHHS_CFSPFD CHHS_Aging CHHS_CHN CHHS_HABIC CHHS_HPCRL	Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease at CSU Center on Aging Consortium for Human Nutrition Human Animal Bond in Colorado Human Performance Clinical Research Lab.		
19 20 21 22 23 24 25 26	CHHS_AMOM CHHS_CFCT CHHS_CEP CHHS_CFSPFD CHHS_Aging CHHS_CHN CHHS_HABIC CHHS_HPCRL CHHS_IBE CHHS_SPI CLA	Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease a CSU Center on Aging Consortium for Human Nutrition Human Animal Bond in Colorado Human Performance Clinical Research Lab. Institute for the Built Environment Scenario Planning Institute		
19 20 21 22 23 24 25 26 27	CHHS_AMOM CHHS_CFCT CHHS_CEP CHHS_CFSPFD CHHS_Aging CHHS_CHN CHHS_HABIC CHHS_HPCRL CHHS_IBE CHHS_SPI CLA	Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease a CSU Center on Aging Consortium for Human Nutrition Human Animal Bond in Colorado Human Performance Clinical Research Lab. Institute for the Built Environment Scenario Planning Institute		
19 20 21 22 23 24 25 26 27	CHHS_AMOM CHHS_CFCT CHHS_CEP CHHS_CFSPFD CHHS_Aging CHHS_CHN CHHS_HABIC CHHS_HPCRL CHHS_IBE CHHS_SPI CLA Liberal Arts - Research As	Continuation Secociate Dean: Stephan Weile	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease at CSU Center on Aging Consortium for Human Nutrition Human Animal Bond in Colorado Human Performance Clinical Research Lab. Institute for the Built Environment Scenario Planning Institute Per Center for Disaster and Risk Analysis		
19 20 21 22 23 24 25 26 27	CHHS_AMOM CHHS_CFCT CHHS_CEP CHHS_CFSPFD CHHS_Aging CHHS_CHN CHHS_HABIC CHHS_HPCRL CHHS_IBE CHHS_SPI CLA Liberal Arts - Research As CLA_PLHC CNS	Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease a CSU Center on Aging Consortium for Human Nutrition Human Animal Bond in Colorado Human Performance Clinical Research Lab. Institute for the Built Environment Scenario Planning Institute Center for Disaster and Risk Analysis Public Lands History Center		
19 20 21 22 23 24 25 26 27 28 29	CHHS_AMOM CHHS_CFCT CHHS_CEP CHHS_CFSPFD CHHS_Aging CHHS_CHN CHHS_HABIC CHHS_HPCRL CHHS_IBE CHHS_SPI CLA Liberal Arts - Research As CLA_PLHC CNS	Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease at CSU Center on Aging Consortium for Human Nutrition Human Animal Bond in Colorado Human Performance Clinical Research Lab. Institute for the Built Environment Scenario Planning Institute Center for Disaster and Risk Analysis Public Lands History Center		
19 20 21 22 23 24 25 26 27 28 29	CHHS_AMOM CHHS_CFCT CHHS_CEP CHHS_CFSPFD CHHS_Aging CHHS_CHN CHHS_HABIC CHHS_HPCRL CHHS_IBE CHHS_SPI CLA Liberal Arts - Research As CLA_CDRA CLA_PLHC CNS Natural Sciences - Resear	Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease at CSU Center on Aging Consortium for Human Nutrition Human Animal Bond in Colorado Human Performance Clinical Research Lab. Institute for the Built Environment Scenario Planning Institute Center for Disaster and Risk Analysis Public Lands History Center Cell and Molecular Biology Graduate Program		
18 19 20 21 22 23 24 25 26 27 28 29	CHHS_AMOM CHHS_CFCT CHHS_CEP CHHS_CFSPFD CHHS_Aging CHHS_CHN CHHS_HABIC CHHS_HPCRL CHHS_IBE CHHS_SPI CLA Liberal Arts - Research As CLA_CDRA CLA_PLHC CNS Natural Sciences - Resear	Continuation	Avenir Museum of Design and Merchandising Center for Family and Couple Therapy Center for Educator Preparation Center for Food Safety and the Prevention of Foodborne Disease at CSU Center on Aging Consortium for Human Nutrition Human Animal Bond in Colorado Human Performance Clinical Research Lab. Institute for the Built Environment Scenario Planning Institute Center for Disaster and Risk Analysis Public Lands History Center Cell and Molecular Biology Graduate Program Materials Chemistry Program of Study		



33	CVMBS_CSUCCVR	Continuation	Colorado State University Center for Cardiovascular Research		
34	CVMBS_CCAS	Continuation	Center for Companion Animal Studies		
35	CVMBS_EC	Continuation	CSU Equine Center		
36	CVMBS_FACC	Continuation	Flint Animal Cancer Center		
37	CVMBS_HICAHS	Continuation	High Plains Intermountain Center for Agricultural Health and Safety		
38	CVMBS_MRL	Continuation	Mycobacterium Research Laboratories		
	WCNR Warner College of Natural Resources - Research Associate Dean: Mark Paschke				
39	WCNR_CCC	Continuation	ation Center for Collaborative Conservation		
40	WCNR-Westfire	Continuation	Western Forest Fire Research Center		
	PROVOST Office of the Provost – RAD Rep: Tammi Vacha-Haase				
41	Provost_CASA	Continuation	Center for Advising and Student Achievement		
42	Provost_CSAL	Continuation	Center for the Study of Academic Labor		
	Provost_CNEE	Continuation	Center for New Energy Economy		
43			CSU STEM Center		
43 44	Provost_STEM	Continuation	CSU STEM Center		
		Continuation Continuation	CSU STEM Center Society of Senior Scholars		
44	Provost_STEM	Continuation			

\square Existing	CIOSU
⊠New	CIOSU

Application/RegistrationColorado State University Centers, Institutes and Other Special Units

Name	of individual complet	ing this application: Jame	es E. Folkes	tad	
Telep	hone Number: 970-49	1-7823 Date: 8/	15/2015		
Reque	ested Start Date for thi	s Center/Institute/Labora	tory: 8/15/2	015	
****	*********	********	*****	*********	****
1.	Name of proposed Center or Institute or Other Special Unite (CIOSU): The Center for the Analytics of Learning and Teaching (C-ALT)				
2.	-	_		trative director(s) of proposenal Manual, Section B.2.6.5	
	James Folkestad	Associate Professor	970-491	-7823/2/h)	_
	Name	Title	Tel	# Signature	
	School of Education	n - 244 Education		james.folkestad@colostate.	.edu
	Address		Fax #	E-mail Address	
	in analytics research		d faculty fo	has been a key university leacused discussions. He was	ıder
3.		unit and how this missioniversity. (Concise summ		the mission and strategic goa words or less)	als
		rning and teaching at Col by supporting research or		University and in other academic analytics, learnin	g

analytics (LA), and educational data mining (EDM), and the implementation of the findings into practice. It does so by working in close partnership with three other CSU units: Research and Analytics (RA); Institutional Research, Planning, and Effectiveness (IRPE); and The Institute for Learning and Teaching (TILT). These units play related but distinct roles in supporting the use of academic analytics, LA, and EDM to support CSU students' academic success. The activities of this collaboration are guided by a CSU Learning Data Analytics Committee (Committee), approved in September 2015 by

Provost Miranda and charged "to ensure that the learning enhancement activities under the auspices of the Committee are coordinated and organized to the greatest benefit of CSU" (pg. 1, "Charge to the Learning Data Analytics Committee").

The primary, and distinctive, role of C-ALT is to facilitate faculty research projects that use academic analytics, LA, and EDM data to investigate questions related to learning and teaching. In contrast, RA focuses primarily on supporting departments, programs, and individual faculty members in assessing the effectiveness of courses and curricula, and only secondarily on promoting faculty members' research projects. By providing large-scale departmental and institutional data, IRPE offers information that contextualizes the unit- and course-level data produced by C-ALT and by RA. To encourage data-driven course and curriculum redesigns that incorporate assessment and, where appropriate, research components, TILT engages faculty members undertaking such redesigns with C-ALT, RA, and IRPE. Thus these four units collaborate under the guidance of the Committee to promote the use of CSU academic analytics, LA, and EDM data in curricular design and related endeavors.

Because academic analytics, LA, and EDM provide a crucial type of data in this endeavor, and because working with such data is new to most faculty members due to its recent emergence, C-ALT plays an essential role in the larger endeavor of seeking to ground learning and teaching at CSU in research. It does so by supporting faculty research projects in academic analytics, LA, and EDM data—a role that cannot be fulfilled by RA, IRPE, or TILT without C-ALT. That is, C-ALT is the only entity on campus whose primary mission is to support faculty research studies using this type of data; thus C-ALT is spearheading an important new line of research, both on its own and through its collaborations with RA, IRPE, and TILT.

The C-ALT mission, and the mission of the collaboration across all four units, supports CSU's land-grant heritage of setting the standard for public research universities. It does so by using analytics for improving learning and teaching, advancing analytics research, and helping other teaching and learning organizations (e.g., Poudre School District) in understanding and using this type of data / information for institutional effectiveness.

4. Statement of goals and/or objectives of the proposed unit.

Goal: To share our respective expertise, approaches, and resources with the overall intention of using analytics to improve learning and teaching at CSU.

Objectives: The following objectives have been identified that will support the overall goal:

- Place faculty at the forefront of analytics-driven research on teaching and learning.
- Enable the long-term aspiration for evidence-informed policy at every level, including analyses that will support effective targeting of support and resources.
- Support understanding of analytics, including these key forms of knowledge:
 - o How to ask the right questions to get intelligible answers.

- o How to design for and collect digital evidence to support claims about learners.
- o How to establish detailed tracking of learning activity outside of testing situations.
- How to leverage ongoing learning data to make intelligent recommendations.
- How to change thinking, moving toward assessing students in context (not isolation), collecting information from more natural interactions to better understand students' characteristic learning behaviors, rather than behaviors undertaken in controlled settings.
- Promoting case-study examples and continuing education on analytics research methods.
- Promote analytics-driven research by bringing guest speakers to the CSU campus
- Maintain a methodology for identifying and selecting research projects that would benefit from an analytics-driven effort.
- Provide financial support for learning-analytics projects that have high potential for impacting CSU students. Potential impact will be determined by the Committee.
- Collaborate with IRPE and RA to establish a systemic approach for data collection and for making data available to instructors, students, and investigators with a focus on conducting research to improve teaching and learning.
- Enable researchers to find pedagogically useful indicators, predictions and recommendations by evaluating the quality of analytics results in practice.
- Establish an interdisciplinary team to respond to calls for proposals and compete for external grants that will support work in learning analytics.
- Conduct applied research to improve curricula and instruction through TILT and support TILT in efforts to distill and apply findings from academic analytics, LA. and EDM research more broadly.

5.	The purpose/mission of this CIOSU does not overlap/duplicate that of other existing CIOSUs.		
	True⊠	False□	
	(If it does,]	please attach a separate page describing/explaining the duplication and how	
	the propose	d CIOSU will be coordinated with other CIOSUs with similar or	
	complemen	tary functions.)	

5.

While C-ALT was originally founded within TILT, then directed by Associate Provost for Instructional Innovation Mike Palmquist, it has taken on the university-wide role described in the response to Question #3, above. Through its own endeavors and through its collaboration with RA, IRPE, and TILT, C-ALT is leading efforts to promote faculty research studies that use academic, LA, and EDM data. This distinctive contribution is crucial to the attempt to ground learning and teaching at CSU in these new forms of data. The Committee's guidance ensures that C-ALT, RA, IRPE, and TILT work collaboratively to support each other's contributions without duplicating efforts.

Name(s) of Colorado State University unit(s) [Department(s)/College(s)] with which this 6. CIOSU will be affiliated.

The membership of C-ALT includes faculty, graduate students, and staff from all eight colleges within the university

- College of Agricultural Sciences
- College of Business
- College of Engineering
- College of Health and Human Sciences
- College of Liberal Arts
- Warner College of Natural Resources
- Veterinary Medicine and Biomedical Sciences

The following administrative units have active C-ALT members:

- The Institute for Learning and Teaching (TILT)
- Research and Analytics (RA)
- Institutional Research, Planning, and Effectiveness (IRPE)
- CSU Online (Division of Continuing Education)
- Libraries
- Student Affairs

C-ALT Members list (active):

Sharron Anderson (School of Education – Ethics) Sharon.Anderson@ColoState.EDU

Dan Baker (Engineering) dan.baker@colostate.edu

Karen Gebhardt (Economics) karen.gebhardt@colostate.edu

Pat Burns (Libraries) Patrick.burns@colostate.edu

Sean Burns (CSU Online) - sean.m.burns@gmail.com

Joe Cannon (Business) - Joe.Cannon @business.colostate.edu

Sarah Delozie (Psychology) – delozier@rams.colostate.edu

Karen Gebhardt (Economics) – Karen Gebhardt @colostate.edu

Gwen Gorzelsky (English; Director, TILT) – Gwen.Gorzelsky@colostate.edu

Dave Johnson (TILT, CSU Online) dave.johnson@colostate.edu

Stan Kruse (TILT) - Stan.Kruse@ColoState.edu

Ingrid Laughman (Chemistry) Ingrid.Laughman@colostate.edu

Paul Laybourn (Biochemistry and Molecular Biology) paul.laybourn@colostate.edu

Tiana Magee (Veterinary School) – Christianne.Magee@colostate.edu

Mike May (Agricultural Sciences) mike.may@colostate.edu

Jennifer McLean (Mycobacteria Research Laboratories) Jennifer.mclean@colostate.edu

Mike Palmquist (English; Associate Provost for Instructional Innovation; Director, CSU Online) mike.palmquist@colostate.edu Mary Pilgrim (Mathematics) mary.pilgrim@colostate.edu Matt Rhodes (Psychology) - matthew.rhodes@colostate.edu Cale Rogers (School of Business) - cale.rogers@colostate.edu Jennifer Schneider (Institutional Research) j.schneider@colostate.edu Jose Suarez-Garcia (Department of Foreign Languages and Literatures) Jose.Suarez Garcia@ColoState.EDU Erica Suchman (Microbiology, Immunology and Pathology) Erica.suchman@colostate.edu Paul Thayer (Associate Vice President, Student Affairs; Special Advisor to the President) paul.thayer@colostate.edu Andrea Weinberg (School of Education) andrea.weinberg@colostate.edu Signatures (See Section B.2.6.3 of the Manual) Gwen Gorzelsky, Executive Director TILT School of Education College of Health and Human Sciences Date Received: August 1, 2015 Month/Year for start of CIOSU: November 1, 2015 Anticipated month/year for formal evaluation (biennial evaluation): October 31, 2017 Signatures: Chair, Faculty Council Date of FC/Committee Action Provost or Vice President for Research Date of Approval

15b

Applicant:

Forward this application to the Office of Faculty Council, which will forward a copy to the Provost. The Provost shall act as or assign the Responsible Administrator for the proposed CIOSU based on its primary mission (See Section B.2.6.3 of the Manual).

If approved, the CIOSU will be subject to periodic evaluations. (See Section B.2.6.6 of the Manual).

(Revised 8/11)

7. Organizational structure and budget

Organizational and administrative structure and responsibilities. The following administrative structure has been established.

Operations and leadership:

Overseeing Administrator: Dr. Rick Miranda will serve as the Overseeing Administrator and will appoint both the Responsible Administrator and the Administrative Director of C-ALT.

Responsible Administrator: Dr. Gwen Gorzelsky (Director of TILT) will serve as the Responsible Administrator for C-ALT and will be responsible for the following:

Schedule the biennial report

Administrative Director: Dr. James Folkestad will serve as the Administrative Director and will be responsible for the following

- Maintaining C-ALT direction, including mission, objectives, and measurable outcomes
- Submit a brief biennial report of C-ALT activities and accomplishments to the Overseeing Administrator and the Responsible Administrator

Learning Data Analytics Committee (the 'Committee'):

The Committee's guidance ensures that C-ALT, RA, IRPE, and TILT work collaboratively to support each other's contributions without duplicating efforts (see question #3 above).

Financial Support:

The following administrative units will provide financial support.

- Division of Continuing Education (DCE)
- The Institute for Learning and Teaching (TILT)
- Libraries

Budget / funding:

CSU Online, ACNS, and TILT will provide a \$73,100.00 base budget for the first three years of the C-ALT-CIOSU to seed the startup of C-ALT. A line item budget and justification are provided below.

Budget (annual):

Item	Amount
Salary & course buyout	\$50,100.00
Travel	\$10,000.00
Equipment	\$3,000.00
Pilot project support	\$10,000.00
Total	\$73,100.00

Budget justification: The following provides justification for each item within the budget.

Salary & course buyout: Salary and course buyout will be provided to the C-ALT Director. This will allow the Director to time to direct C-ALT and develop analytics-driven projects that will benefit CSU, Unizin, and the Reinvention Center.

Travel: Travel funding will allow the C-ALT Director to travel to present findings at national conferences related to analytics.

Equipment: An equipment budget will allow the C-ALT Director to purchase equipment related to the analytics effort.

Pilot project support: Funding will be used to support project startups. Projects will be selected that have high potential to generate external funding or significant impact on CSU, Unizin, and / or the Reinvention Center. The C-ALT Steering Committee will select projects to receive funding based on criteria.