

A regular meeting of the University Curriculum Committee was held on March 10, 2017 at 2:00 p.m.

**Members present:** Chair Carole Makela, Professors Bradley Goetz, Lisa Kutcher for Paul Mallette, Howard Ramsdell, Sally Sutton, Brad Reisfeld, Beth Oehlerts, Ed DeLosh and Graduate Student Rep. Kevin Jablonski.

**Curriculum Unit:** Shelly Ellerby and Kayleen Allen.

**Guests:** Julia Murphy (Registrar's Office) and Linda Selkirk (CSU Online).

**Absent:** Professor Mike Hogan, Undergraduate Student Rep. Mahalia Henschel, and VPUA Kelly Long (ex-officio).

#### **Minutes**

The Minutes of March 3, 2017 were approved.

#### **Consent Agenda**

The Consent Agenda was approved.

<i>New Courses</i>	<i>Effective Term</i>
<b>BZ 565/MIP 565 Next Generation Sequencing Platform/Libraries 1(0-2-0) F</b>	Fall 2017
<b>Prerequisite:</b> CM 505. <b>Registration Information:</b> This is a partial semester course. Credit allowed for only one of the following: BZ 565, CM 581A2, or MIP565. <b>Description:</b> Theoretical and experimental aspects of next generation sequencing experiments with a focus on the Illumina platform. Students will create and sequence metagenomic and 16S rDNA libraries from soil samples and unknown bacterial cultures. <b>Grade Mode:</b> Traditional	
<b>CM 505 Nucleic Acids for Non-Life Scientists 1(0-2-0) F</b>	Fall 2017
<b>Prerequisite:</b> None. <b>Registration Information:</b> This is a partial semester course. Written consent of instructor. Credit not allowed for both CM 505 and CM 581A1. <b>Description:</b> Basic molecular biology including nucleic acid structure, function and manipulation. Hands on experience in the common techniques used to quantify, quality control and manipulate nucleic acids with an emphasis on the polymerase chain reaction. <b>Grade Mode:</b> Traditional.	
<b>DSCI 100 First Year Seminar in Data Science 1(0-0-1) F</b>	Spring 2018
<b>Prerequisite:</b> None. <b>Registration Information:</b> Freshman or sophomore Data Science majors only. <b>Description:</b> Introduction to problems and techniques in data science. <b>Grade Mode:</b> Traditional	
<b>DSCI 335 Inferential Reasoning in Data Analysis 3(3-0-0) S</b>	Spring 2018
<b>Prerequisite:</b> JTC 300, CO 300, CO 301B, or CO 302. <b>Registration Information:</b> None. <b>Description:</b> Sources of data collection errors and uncertainties, type of studies, interaction versus confounding, fair use of data, confidentiality and disclosure. <b>Grade Mode:</b> Traditional	
<b>DSCI 336 Data Graphics and Visualization 1(1-0-0) S</b>	Spring 2018
<b>Prerequisite:</b> STAT 342. <b>Registration Information:</b> This is a partial semester course. <b>Description:</b> Data graphics and visualization techniques for data science. <b>Grade Mode:</b> Traditional	

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**LSPA 500B Spanish Language Analysis: Phonetics and Phonology 3(3-0-0)**  
As Needed

Fall 2017

**Prerequisite:** LSPA 400.

**Registration Information:** Graduate Standing.

**Description:** Theoretical and practical study of speech sounds (phonetics), and the systematic use of such sounds in language (phonology).

**Grade Mode:** Traditional



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**Major Changes to Courses**

**Effective  
Term**

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**ANTH 225 Anthropology of ~~Musie and~~ the Arts 3(3-0-0) F**

Fall 2017

**Prerequisite:** None.

**Offering Year:** Odd

**Registration Information:** None.

**Description:** Explores ~~musie and~~ the arts (both visual and performing) from the perspective of cultural anthropology. What is art and how is the category differently constructed cross-culturally? Why and how do people make, consume, and identify with expressive culture? How can the visual-art and performing arts musie help us to develop a deeper understanding of how human beings make meaning? Read a variety of ethnographic texts that illuminate these and related questions.

**Grade Mode:** Traditional

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**CBE 101 Introduction to Chemical and Biological Engr Engineering I 3(2-2-0) F, S**

Spring 2018

**Prerequisite:** CBE 160 or concurrent registration.

**Registration Information:** Must register for lecture and laboratory.

**Description:** Engineering design and problem solving; technical presentation skills; basic computer programming.

**Grade Mode:** Traditional

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**CBE 205 Fundamentals of ~~Introduction to~~ Biological Engineering 3(3-0-0) F**

Spring 2018

**Prerequisite:** CBE 101; CBE 160; LIFE 102.

**Registration Information:** None.

**Description:** Introduction to the application of the principles of engineering and biology to the analysis, design, and optimization of bioprocesses.

**Grade Mode:** Traditional

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**CON 267 Construction Management Pre-Internship 1(0-0-1) F, S, ~~SS~~**

Spring 2018

**Prerequisite:** CON 265 (with a grade of C or better). ~~None.~~

**Registration Information:** Construction Management Majors Only.

**Description:** Skills and concepts related to successful internships within the construction management industry.

**Grade Mode:** Traditional

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**CO 150 College Composition 3(3-0-0) F, S, SS**

Fall 2017

**Prerequisite:** CO 130 or Composition Challenge Essay (score of 3, 4, or 5) or SAT Verbal/Critical Reading score of minimum 600, or SAT Evidence Based Reading/Writing score of minimum 650, or ACT COMPOSITE score of minimum 26, or Directed Self-Placement Survey code of 15.

**Registration Information:** Must have taken CO 130 or Composition Challenge Essay (score of 3, 4, or 5) or SAT Verbal/Critical reading score of minimum 600 or SAT Evidence Based Reading/Writing score of minimum 650 or ACT COMPOSITE score of minimum 26 or above or Directed Self-Placement Survey code of 15. Sections may be offered: Online.

**Description:** Understanding and writing for rhetorical situations; critical reading and response; writing source-based argument for academic and public audiences.

**Grade Mode:** Traditional

[\[Sample syllabus and CDHE GTP form reviewed/approved to comply with the revised CDHE GT Pathways content criteria and competencies.\]](#)

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<b>CO 300 Writing Arguments 3(3-0-0) F, S, SS</b>	Fall 2017
<b>Prerequisite:</b> CO 150 or HONR 193	
<b>Registration Information:</b> Sections may be offered: Online.	
<b>Description:</b> Reading, analyzing, researching, and writing arguments.	
<b>Grade Mode:</b> Traditional	
<a href="#">[Sample syllabus and CDHE GTP form reviewed/approved to comply with the revised CDHE GT Pathways content criteria and competencies.]</a>	

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<b>CO 301A Writing in the Disciplines: Arts and Humanities (GT-CO3) 3(3-0-0) F, S, SS</b>	Fall 2017
<b>Prerequisite:</b> CO 150 or HONR 193	
<b>Registration Information:</b> <a href="#">Sections may be offered: Online.</a>	
<b>Description:</b> Learning writing strategies for addressing general audiences in arts and humanities.	
<b>Grade Mode:</b> Traditional	
<a href="#">[Sample syllabus and CDHE GTP form reviewed/approved to comply with the revised CDHE GT Pathways content criteria and competencies.]</a>	

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<b>CO 301B Writing in the Disciplines: Sciences (GT-CO3) 3(3-0-0) F, S, SS</b>	Fall 2017
<b>Prerequisite:</b> CO 150 or HONR 193	
<b>Registration Information:</b> <a href="#">Sections may be offered: Online.</a>	
<b>Description:</b> Learning writing strategies for addressing general audiences in sciences.	
<b>Grade Mode:</b> Traditional	
<a href="#">[Sample syllabus and CDHE GTP form reviewed/approved to comply with the revised CDHE GT Pathways content criteria and competencies.]</a>	

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<b>CO 301C Writing in the Disciplines: Social Sciences (GT-CO3) 3(3-0-0) F, S, SS</b>	Fall 2017
<b>Prerequisite:</b> CO 150 or HONR 193	
<b>Registration Information:</b> Sections may be offered: Online.	
<b>Description:</b> Learning writing strategies for addressing general audiences in social sciences.	
<b>Grade Mode:</b> Traditional	
<a href="#">[Sample syllabus and CDHE GTP form reviewed/approved to comply with the revised CDHE GT Pathways content criteria and competencies.]</a>	

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<b>CO 301D Writing in the Disciplines: Education (GT-CO3) 3(3-0-0) F, S, SS</b>	Fall 2017
<b>Prerequisite:</b> CO 150 or HONR 193	
<b>Registration Information:</b> <a href="#">Sections may be offered: Online.</a>	
<b>Description:</b> Learning writing strategies for addressing general audiences in education.	
<b>Grade Mode:</b> Traditional	
<a href="#">[Sample syllabus and CDHE GTP form reviewed/approved to comply with the revised CDHE GT Pathways content criteria and competencies.]</a>	

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<b>CO 302 Writing in Digital Environments 3(3-0-0) F, S</b>	Fall 2017
<b>Prerequisite:</b> CO 150 or HONR 193	
<b>Registration Information:</b> <a href="#">Sections may be offered: Online.</a>	
<b>Description:</b> Writing strategies, patterns and approaches for online materials.	
<b>Grade Mode:</b> Traditional	
<a href="#">[Sample syllabus and CDHE GTP form reviewed/approved to comply with the revised CDHE GT Pathways content criteria and competencies.]</a>	

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<b>ETST 100 Introduction to Ethnic Studies 3(3-0-0) F, S, SS</b>	Spring 2018
<b>Prerequisite:</b> None	
<b>Registration Information:</b> <a href="#">Sections may be offered: Online.</a>	
<b>Description:</b> Key concepts, theories, and historical experiences that form the basis of scholarly work in comparative ethnic studies, domestically and internationally.	
<b>Grade Mode:</b> Traditional	



### *New Graduate Certificates*

College of Health and Human Nutrition  
 Department of Food Science & Human Nutrition  
 Graduate Certificate in Nutrition Sciences

Effective Fall 2017

Additional coursework may be required due to prerequisites.

Code	Title	Credits
<u><a href="#">FSHN 530</a></u>	Principles of Nutrition Science & Metabolism	3
<u><a href="#">FSHN 531</a></u>	Diet, Nutrition, and Chronic Disease	3
<u><a href="#">FSHN 532</a></u>	Emerging Issues in Nutrition	3
<b>Program Total Credits:</b>		<b>9</b>

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



### *New Minor*

College of Agricultural Sciences  
 Department of Agricultural and Resource Economics  
 Minor in Environmental and Natural Resource Economics

Effective Fall 2017

Effective **Fall 2017**

Students must satisfactorily complete the total credits required for the minor. Minors and interdisciplinary minors require 12 or more upper-division (300- to 400-level) credits.

Additional coursework may be required due to prerequisites.

Code	Title	Credits
<b>Required Courses:</b>		
<u><a href="#">AREC 202</a></u>	Agricultural and Resource Economics (GT-SS1)	3
<u><a href="#">AREC 240</a></u>	Issues in Environmental Economics (GT-SS1)	3
<b>Electives – Choose at least 15 credits from the following:</b>		<b>15</b>
<u><a href="#">AREC 340</a></u>	Introduction: Economics of Natural Resources	
<u><a href="#">AREC 341</a></u>	Environmental Economics	
<u><a href="#">AREC 342</a></u>	Water Law, Policy, and Institutions	
<u><a href="#">AREC 346</a></u>	Economics of Outdoor Recreation	
<u><a href="#">AREC 440</a></u>	Advanced Environmental and Resource Economics	
<u><a href="#">AREC 442</a></u>	Water Resource Economics	
<u><a href="#">AREC 444</a></u>	Economics of Energy Resources	

**Program Total Credits:**

**21**



***Corrections/Updates to Previous Minutes***

1. CON 261 was approved with changes to the course on the 2/24/17 UCC minutes effective Spring 2018. The course was approved with “Pre-Landscape Horticulture Majors and Landscape Horticulture Majors and Minors only” as part of Other Registration Information and Explanation. This wording shall be omitted.

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2/24/17 Other Registration Information & Explanation	Must register for lecture and laboratory. Construction Management, Environmental Horticulture, Landscape Architecture, Pre-Landscape Horticulture Majors and Landscape Horticulture Majors and Minors Only.
Correct Other Registration Information & Explanation	Must register for lecture and laboratory. <b>Construction Management, Environmental Horticulture, and Landscape Architecture Majors only.</b>

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The meeting adjourned at 4:10 p.m.

Carole Makela, Chair  
Shelly Ellerby, Curriculum Liaison Specialist  
Kayleen Allen, Curriculum and Catalog Assistant



University Curriculum Committee  
 March 10, 2017  
**CONSENT AGENDA**

**Experimental Courses – 1<sup>st</sup> Offering**

Course Title	Effective Term
<a href="#">ECE 580B5</a> Applied Electromagnetics	Fall 2017

**Course Drops**

Course Title	Requested Change	Effective Term
<a href="#">ACT 501</a> Accounting for Global Sustainable Enterprise	Drop	Fall 2017
<a href="#">ACT 650</a> Advanced Accounting Information Systems	Drop	Fall 2017

**Minor Changes to Existing Program**

College of Engineering  
 Master of Engineering, Plan C, Biomedical Engineering Specialization

Effective Fall 2017

Effective ~~Spring 2012~~ Fall 2017

Students must take a minimum of 15 semester credits of biomedical engineering (BIOM) courses<sup>1</sup>

Code	Title	Credits
<b>Core Course Requirements</b>		
<a href="#">BIOM 570/MECH 570</a>	Bioengineering	3
<a href="#">BMS 500</a>	Mammalian Physiology I	4
<b>Foundation Courses</b>		
Select a minimum of 12 credits from the following:		12
<a href="#">BIOM 525/MECH 525</a>	Cell and Tissue Engineering	
<a href="#">BIOM 526/MECH 526</a>	Biological Physics	
<a href="#">BIOM 531/MECH 531</a>	Materials Engineering	
<a href="#">BIOM 532/MECH 532</a>	Material Issues in Mechanical Design	
<a href="#">BIOM 533</a> or <a href="#">CIVE 534</a>	Biomolecular Tools for Engineers <sup>2</sup> Applied and Environmental Molecular Biology	
<a href="#">BIOM 543/CBE 543</a>	Membranes for Biotechnology and Biomedicine	
<a href="#">BIOM 573/MECH 573</a>	Structure and Function of Biomaterials	
<a href="#">BIOM 671/MECH 671</a>	Orthopedic Tissue Biomechanics	
<b>Depth Courses</b>		
Select a minimum of 8 credits from the following not taken in another category:		8
<a href="#">ANEQ 565</a>	Interpreting Animal Science Research	
<a href="#">BC 565</a>	Molecular Regulation of Cell Function	
<a href="#">BIOM 531/MECH 531</a>	Materials Engineering	
<a href="#">BIOM 592</a>	Seminar	

Code	Title	Credits
<a href="#"><u>BMS 501</u></a>	Mammalian Physiology II	
<a href="#"><u>BMS 575</u></a>	Human Anatomy Dissection	
<a href="#"><u>BMS 631</u></a>	Mechanisms of Hormone Action	
<a href="#"><u>CBE 503</u></a>	Transport Phenomena Fundamentals	
<a href="#"><u>ECE 512</u></a>	Digital Signal Processing	
<a href="#"><u>ERHS 712</u></a>	Physics of Diagnostic Imaging	
<a href="#"><u>HES 531</u></a>	Muscle and Joint Mechanics	
<a href="#"><u>MECH 530</u></a>	Advanced Composite Materials	
<a href="#"><u>MIP 651</u></a>	Immunobiology	
<a href="#"><u>NB 505</u></a>	Neuronal Circuits, Systems and Behavior	
<b>Breadth Courses</b>		
Select a minimum of 3 credits from the following:		3
<a href="#"><u>MATH 545</u></a>	Partial Differential Equations I	
<a href="#"><u>STAT 511</u></a>	Course STAT 511 Not Found	
<a href="#"><u>STAT 512</u></a>	Design and Data Analysis for Researchers II	
<a href="#"><u>STAT 520</u></a>	Introduction to Probability Theory	
<a href="#"><u>STAT 521</u></a>	Stochastic Processes I	

**Program Total Credits:****30**

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

<sup>1</sup> Additional courses may need to be taken as supplemental requirements to satisfy provisional admission requirements, course prerequisites, or supplemental coursework stipulations.

<sup>2</sup> Students with a strong background in Cellular and Molecular Biology may substitute [CM 502](#) for [BIOM 533](#) or [CIVE 534](#).

Seminar, thesis, and independent study credits will not apply toward degree.

