

A regular meeting of the University Curriculum Committee was held on May 5, 2017 at 2:00 p.m.

**Members present:** Chair Carole Makela, Professors Bradley Goetz, Paul Mallette, Brad Reisfeld, Howard Ramsdell, Sally Sutton, Beth Oehlerts, Ed DeLosh, Mike Hogan, VPUA Kelly Long, ex-officio and Graduate Student Rep. Kevin Jablonski.

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

**Guests:** Julia Murphy (Registrar's Office), Linda Selkirk (CSU Online), and Doreen Hyatt (incoming UCC Representative for CVMBS).

**Absent:** Undergraduate Student Representative.

#### Minutes

The Minutes of April 28, 2017 were approved.

#### Consent Agenda

Approved.

<i>New Courses</i>	<i>Effective Term</i>
<b>ANTH 317 Anthropology of Human Rights 3(3-0-0) F, S, SS</b> <b>Prerequisite:</b> ANTH 100 or ANTH 200. <b>Registration Information:</b> Offered as an online course only. <b>Description:</b> Human rights from the perspective of cultural anthropology through its theoretical and practical dimensions. Contemporary human rights debates within the context of cultural plurality in a globalized world. Engages the intersection between global dynamics and community experiences by addressing the human rights dimensions of refugees and migration, indigenous communities, women and children, health, religious practices, among others. <b>Grade Mode:</b> Traditional	Spring 2018
<b>CS 445 Introduction to Machine Learning 4(3-2-0) S</b> <b>Prerequisite:</b> CS 320 with a C or better. <b>Registration Information:</b> Must register for lecture and laboratory. Sophomore standing. Sections may be offered: Online. Credit allowed for only one of the following: CS 445, CS 480A3, or DSCI 445. <b>Description:</b> Fundamental concepts and methods of computational data analysis, including pattern classification, prediction, visualization, and recent topics in deep learning. <b>Grade Mode:</b> Traditional.	Spring 2018
<b>E 310 Researching and Writing Literary Criticism 3(3-0-0) F</b> <b>Prerequisite:</b> 3 credits of E 100-499 or CO 100-499. <b>Registration Information:</b> None. <b>Description:</b> Discipline-specific conventions of literary criticism and composing essays framed for literary scholars. Preparation for sharing research with public audiences, outside the classroom, in undergraduate research conferences and appropriate publication venues. <b>Grade Mode:</b> Traditional	Spring 2018



<i>Major Changes to Courses</i>	<i>Effective Term</i>
<b>ATS 699C Thesis: <del>Tropical Meteorology</del> <del>Chemistry-Climate Interactions</del></b> <b>Var. [1-18] F, S, SS</b> <b>Prerequisite:</b> None. <b>Restriction:</b> Must be a: Graduate, Professional. <b>Registration Information:</b> None. <b>Description:</b> None. <b>Grade Mode:</b> <del>Instructor Option</del> <u>S/U Sat/Unsat Only</u>	Spring 2018

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<b>ATS 799C Dissertation: <a href="#">Tropical Meteorology</a> <del>Chemistry-Climate Interactions</del></b>	Spring 2018
<b>Var. [1-18] F, S, SS</b>	
<b>Prerequisite:</b> None.	
<b>Restriction:</b> Must be a: Graduate, Professional.	
<b>Registration Information:</b> None.	
<b>Description:</b> None.	
<b>Grade Mode:</b> Instructor Option	

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<b>ETST 332 Contemporary Chicana Issues 3(3-0-0) S</b>	Spring 2018
<b>Prerequisite:</b> None.	
<b>Registration Information:</b> <a href="#">Sections may be offered: Online.</a>	
<b>Description:</b> Current Chicana issues including conquest, immigration, urbanization, health in context of societal trends.	
<b>Grade Mode:</b> Traditional	

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<b>MATH 101 Math in the Social Sciences 3(2-2-0) F, S, SS</b>	Spring 2018
<b>Prerequisite:</b> None.	
<b>Registration Information:</b> Must register for lecture and laboratory. Mathematics Placement Examination or Mathematics Challenge Exam required. Sections may be offered: Online.	
<b>Description:</b> Voting theory, power indices, fair division, apportionment, circuits and trees, list processing, descriptive statistics, probability.	
<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>MATH 117 College Algebra in Context I 1(1-0-0) F, S, SS</b>	Spring 2018
<b>Prerequisite:</b> None.	
<b>Registration Information:</b> Mathematics Placement Examination or Mathematics Challenge Exam required. Sections may be offered: Online.	
<b>Description:</b> Functions as mathematical models. Linear, quadratic, and polynomial functions considered symbolically, graphically, numerically, and contextually.	
<b>Grade Mode:</b> Instructor Option	
<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>MATH 118 College Algebra in Context II 1(1-0-0) F, S, SS</b>	Spring 2018
<b>Prerequisite:</b> MATH 117, may be taken concurrently.	
<b>Registration Information:</b> MATH 117 or Mathematics Placement Examination or Mathematics Challenge Examination required. Sections may be offered: Online.	
<b>Description:</b> Reciprocals of linear functions, rational functions, and power functions considered symbolically, graphically, numerically, and contextually.	
<b>Grade Mode:</b> Instructor Option	
<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>MATH 124 Logarithmic and Exponential Functions 1(1-0-0) F, S, SS</b>	Spring 2018
<b>Prerequisite:</b> MATH 118, may be taken concurrently.	
<b>Registration Information:</b> Required: MATH 118 or Mathematics Placement Examination or Mathematics Challenge Examination. Sections may be offered: Online.	
<b>Description:</b> Definition and graphs of exponential and logarithmic functions, properties of logarithmic functions, exponential and logarithmic equations, applications.	
<b>Grade Mode:</b> Instructor Option	
<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>MATH 125 Numerical Trigonometry 1(1-0-0) F, S, SS</b>	Spring 2018
<b>Prerequisite:</b> MATH 118, may be taken concurrently.	
<b>Registration Information:</b> MATH 118 or Mathematics Placement Examination or Mathematics Challenge Examination required. Sections may be offered: Online.	
<b>Description:</b> Definition and graphs of trigonometric functions, laws of sines and cosines, solutions of right and oblique triangles, applications.	
<b>Grade Mode:</b> Instructor Option	
<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>MATH 126 Analytic Trigonometry 1(1-0-0) F, S, SS</b>	Spring 2018
<b>Prerequisite:</b> MATH 125, may be taken concurrently.	
<b>Registration Information:</b> MATH 125 or Mathematics Placement Examination or Mathematics Challenge Examination required. Sections may be offered: Online.	
<b>Description:</b> Inverse trigonometric functions, trigonometric identities, solving trigonometric equations.	
<b>Grade Mode:</b> Instructor Option	
<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>MATH 141 Calculus in Management Sciences 3(3-0-0) F, S, SS</b>	Spring 2018
<b>Prerequisite:</b> MATH 118.	
<b>Registration Information:</b> Sections may be offered: Online. Credit allowed for only one of the following courses: MATH 141, MATH 155, <a href="#">MATH 159</a> , or MATH 160	
<b>Description:</b> Analytic geometry, limits, equilibrium of supply and demand, differentiation, integration, applications of the derivative, integral.	
<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>MATH 155 Calculus for Biological Scientists I 4(4-0-0) F, S, SS</b>	Spring 2018
<b>Prerequisite:</b> (MATH 124) and (MATH 125)	
<b>Registration Information:</b> Credit allowed for only one of the following courses: MATH 141, MATH 155, <a href="#">MATH 159</a> , or MATH 160. Programmable graphing calculator required.	
<b>Description:</b> Limits, continuity, differentiation, and integration of elementary functions with applications in the biosciences.	
<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>MATH 157 One Year Calculus IA 3(3-0-0) F</b>	Spring 2018
<b>Prerequisite:</b> (MATH 124, may be taken concurrently) and (MATH 126)	
<b>Registration Information:</b> None.	
<b>Description:</b> Algebra and trigonometry, study skills for calculus. Limits, continuity, differentiation of elementary functions with applications.	
<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>MATH 160 Calculus for Physical Scientists I 4(3-2-0) F, S, SS</b>	Spring 2018
<b>Prerequisite:</b> MATH 124 with an B or better; MATH 126 with an B or better.	
<b>Registration Information:</b> Must register for lecture and laboratory. Written consent of department chair. Credit allowed for only one of the following courses: MATH 141, MATH 155, MATH 159 OR MATH 160. Sections may be offered: Online.	
<b>Description:</b> Limits, continuity, differentiation, and integration of elementary functions with applications; conic sections.	
<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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**MATH 161 Calculus for Physical Scientists II 4(3-2-0) F, S, SS** Spring 2018

**Prerequisite:** (MATH 124) and (MATH 159 or MATH 160)

**Registration Information:** Must register for lecture and laboratory. Sections may be offered: Online.

**Description:** Transcendental functions, integration techniques, polar coordinates, sequences and series, with mathematical software.

**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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**PSY 311A Basic Counseling Skills Laboratory 2(0-4-0) F, S, SS** Fall 2017/Spring 2018

**Prerequisite:** [PSY 310](#) or concurrent ~~PSY 100 and PSY 310, may be taken concurrently~~ (since registration already exists for Fall 2017, the prerequisite update should be effective Spring 2018)

**Registration Information:** Credit not allowed for both PSY 311A and PSY 311B.

**Description:** Application of psychologically-based interpersonal communication skills in drug addiction treatment, for students seeking CACI certification.

**Grade Mode:** Traditional

[Effective Fall 2017, approved as new [AUCC 4C: Capstone Experience](#) for the following:  
[Major in Psychology, Addictions Counseling Concentration](#)]



### Major Changes to Existing Programs

Warner College of Natural Resources  
 Department of Geosciences  
 Major in Geology, Geophysics Concentration

Effective Fall 2017

### Effective Fall 2017 ~~2015~~

FRESHMAN		AUCC	CREDITS
<u>CHEM 111</u>	General Chemistry I (GT-SC2)	3A	4
<u>CHEM 112</u>	General Chemistry Lab I (GT-SC1)	3A	1
<u>CHEM 113</u>	<a href="#">General Chemistry II</a>	-	<u>3</u>
<u>CHEM 114</u>	<a href="#">General Chemistry Lab II</a>	-	<u>1</u>
<u>CO 150</u>	College Composition (GT-CO2)	1A	3
<u>GEOL 150</u> <sup>1</sup>	Physical Geology for Scientists and Engineers	3A	4
<u>GEOL 154</u>	Historical and Analytical Geology		4
<u>MATH 160</u>	Calculus for Physical Scientists I (GT-MA1)	1B	4
<u>Arts and Humanities</u>		3B	3
<u>Global and Cultural Awareness</u>		<del>3E</del>	<del>3</del>
<u>Elective</u>		-	<del>3</del>
<u>Social and Behavioral Sciences</u>		<u>3C</u>	<u>3</u>
<b>Total Credits</b>			<b><u>30</u> <del>29</del></b>

<b>SOPHOMORE</b>				
<del>CHEM 113</del>	<del>General Chemistry II</del>	-		<del>3</del>
<del>CHEM 114</del>	<del>General Chemistry Lab II</del>	-		<del>1</del>
<u>GEOL 232</u>	Mineralogy			3
<u>GEOL 250</u>	The Solid Earth			3
<u>GEOL 364</u>	Igneous and Metamorphic Petrology	4B		4
<b>Select one from the following:</b>				
<del>CO 300</del>	<del>Writing Arguments (GT-CO3)</del>	<del>2</del>	-	
<del>CO 301B</del>	<del>Writing in the Disciplines: Sciences (GT-CO3)</del>	<del>2</del>	-	
<del>JTC 300</del>	<del>Professional and Technical Communication (GT-CO3)</del>	<del>2</del>	-	
<u>MATH 151</u>	<u>Mathematical Algorithms in Matlab I</u>	-		<u>1</u>
<u>MATH 161</u>	Calculus for Physical Scientists II (GT-MA1)	1B		4
<u>MATH 261</u>	Calculus for Physical Scientists III			4
<u>PH 141</u>	Physics for Scientists and Engineers I (GT-SC1)	3A		5
<u>Social and Behavioral Sciences</u>		<u>3C</u>		<u>3</u>
<u>Historical Perspectives</u>		<u>3D</u>		<u>3</u>
<b>Total Credits</b>				<u>27</u> <del>33</del>
<b>JUNIOR</b>				
<del>CS 155</del>	<del>Introduction to Unix</del>	-		<del>1</del>
<del>CS 156</del>	<del>Introduction to C Programming I</del>	-		<del>1</del>
<u>GEOL 344</u>	Stratigraphy and Sedimentology	4A		4
<u>GEOL 372</u>	Structural Geology	4B		4
<u>GEOL 376</u>	Geologic Field Methods	4A,4C		3
<u>MATH 340</u>	Introduction to Ordinary Differential Equations			4
<u>PH 142</u>	Physics for Scientists and Engineers II (GT-SC1)	3A		5
<b>Select one from the following:</b>				
<del>CS 157</del>	<del>Introduction to C Programming II</del>	-	-	
<del>CS 158/MATH 158</del>	<del>Mathematical Algorithms in C</del>	-	-	
<u>MATH 151</u>	<u>Mathematical Algorithms in</u>	-	-	

<b>Matlab I</b>			
Select one course from the following:			3
<b><u>MATH 369</u></b>	Linear Algebra I		
<b><u>STAT 301</u></b>	Introduction to Statistical Methods		
<b><u>STAT 315</u></b>	Statistics for Engineers and Scientists		
<u>Select one course from the following:</u>		-	<u>3</u>
<b><u>CO 300</u></b>	<u>Writing Arguments (GT-CO3)</u>	<u>2</u>	-
<b><u>CO 301B</u></b>	<u>Writing in the Disciplines: Sciences (GT-CO3)</u>	<u>2</u>	-
<b><u>JTC 300</u></b>	<u>Professional and Technical Communication (GT-CO3)</u>	<u>2</u>	-
<b><u>Arts and Humanities</u></b>		3B	3
<b><u>Historical Perspectives</u></b>		<del>3D</del>	<del>3</del>
<b>Total Credits</b>			<b><u>29</u> <del>32</del></b>
<b>SUMMER</b>			
<b><u>GEOL 436</u></b>	Geology Summer Field Course	4C	6
<b>Total Credits</b>			<b>6</b>
<b>SENIOR</b>			
<u>Upper-Division</u> Geology Electives <sup>2</sup>		-	<u>3-5</u> <del>6</del>
<del>Select 9 credits from the</del> Directed Technical Electives <del>list</del> ( <u>select a minimum of 12 credits - see list below:</u> )		-	<u>12-14</u> <del>9</del>
<b><u>GEOL 442</u></b>	<del>Applied Geophysics</del>	-	-
<b><u>GEOL 570</u></b>	<del>Plate Tectonics</del>	-	-
<b><u>GEOL 578</u></b>	<del>Global Seismology</del>	-	-
<b><u>MATH 332</u></b>	<del>Partial Differential Equations</del>	-	-
<b><u>MATH 450</u></b>	<del>Introduction to Numerical Analysis I</del>	-	-
<b><u>MATH 530</u></b>	<del>Mathematics for Scientists and Engineers</del>	-	-
<b><u>PH 341</u></b>	<del>Mechanics</del>	-	-
<b><u>PH 351</u></b>	<del>Electricity and Magnetism</del>	-	-
<b><u>PH 353</u></b>	<del>Optics and Waves</del>	-	-
<b><u>Global and Cultural Awareness</u></b>		<u>3E</u>	<u>3</u>
Electives <sup>3</sup>			<u>8</u> <del>5</del>
<b>Total Credits</b>			<b><u>28</u> <del>20</del></b>

**Program Total Credits: 120**

**Directed Technical Electives List (Select a minimum of 12 credits)**

Code	Title	Credits
<u>GEOL 442</u>	Applied Geophysics	4
<u>GEOL 570</u>	Plate Tectonics	3
<u>GEOL 574</u>	<u>Geodynamics</u>	<u>3</u>
<u>GEOL 578</u>	Global Seismology	4
<u>GEOL 579</u>	<u>Solid Earth Inverse Methods and Practices</u>	<u>3</u>
<u>MATH 317</u>	<u>Advanced Calculus of One Variable</u>	<u>3</u>
<u>MATH 332</u>	Partial Differential Equations	3
<u>MATH 417</u>	<u>Advanced Calculus I</u>	<u>3</u>
<u>MATH 418</u>	<u>Advanced Calculus II</u>	<u>3</u>
<u>MATH 419</u>	<u>Introduction to Complex Variables</u>	<u>3</u>
<u>MATH 450</u>	Introduction to Numerical Analysis I	3
<u>MATH 469</u>	<u>Linear Algebra II</u>	<u>3</u>
<u>MATH 530</u>	Mathematics for Scientists and Engineers	4
<u>PH 245</u>	<u>Introduction to Electronics</u>	<u>3</u>
<u>PH 314</u>	<u>Introduction to Modern Physics</u>	<u>4</u>
<u>PH 341</u>	Mechanics	4
<u>PH 351</u>	Electricity and Magnetism	4
<u>PH 353</u>	Optics and Waves	4
<u>PH 361</u>	<u>Physical Thermodynamics</u>	<u>3</u>
<u>One option may be selected from the following if not used to satisfy Junior year program requirements:</u>		<u>3</u>
<u>MATH 369</u>	<u>Linear Algebra I</u>	
<u>STAT 301</u>	<u>Introduction to Statistical Methods</u>	
<u>or STAT 315</u>	<u>Statistics for Engineers and Scientists</u>	

- <sup>1</sup> GEOL 120, GEOL 122 or GEOL 124 in combination with GEOL 121 may be substituted for GEOL 150.
- <sup>2</sup> ~~Select 3 to 5 credits in 300- to 500-level GEOL courses excluding GEOL 384, GEOL 401, GEOL 492, GEOL 494A-I. Select two upper division geology courses of three or more credits each.~~
- <sup>3</sup> 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).



Effective ~~Fall 2016~~ **Fall 2017**

**Core Courses**

<u>Select 21 credits from the following:</u>		<u>21</u>
<b><u>FW 551</u></b>	Design of Fish and Wildlife Studies	
<b><u>FW 552</u></b>	Applied Sampling for Wildlife/Fish Studies	
<b><u>FW 555</u></b>	Conservation Biology	
<b><u>FW 562</u></b>	<u>Fish and Wildlife Population Dynamics</u>	
<b><u>FW 564</u></b>	Science of Managing Human-Wildlife Conflicts	
<b><u>FW 577</u></b>	<u>Management of Wildlife Habitat</u>	
<b><u>FW 578</u></b>	Conservation Decision Analysis	
<b><u>NR 515</u></b>	Natural Resources Policy and Biodiversity	

**Core Total Credits**

**21**

Select at least 9 additional credits from the following:		9
<u>Core course not taken above</u>		
<b><u>FW 544</u></b>	<u>Ecotoxicology</u>	
<b><u>FW 556</u></b>	<del>Leopold's Ethic for Wildlife and Land</del>	
<b><u>FW 558</u></b>	<u>Conservation Genetics of Wild Populations</u>	
<b><u>FW 563</u></b>	<u>Methods of Fish &amp; Wildlife Population Studies</u>	
<b><u>FW 576</u></b>	Wildlife Policy, Administration, and Law	
<b><u>FW 692</u></b>	Seminar: Fish, Wildlife, and Conservation Biology <sup>+</sup> <i>(moved from required list above to this list)</i>	
<b><u>FW 696</u></b>	Group Study: Fish, Wildlife, Conservation Biology <sup>+</sup> <i>(moved from required list above to this list)</i>	
<b><u>NR 400</u></b>	<u>Public Relations in Natural Resources</u>	
<b><u>NR 501</u></b>	<del>Leadership and Public Communications</del>	
<b><u>STAT 511</u></b>	<del>Course STAT 511 Not Found</del>	
<b><u>STAT 512</u></b>	<del>Design and Data Analysis for Researchers II</del>	
<b><u>STAT 547</u></b>	<del>Statistics for Environmental Monitoring</del>	

**Program Total Credits:**

**30**

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

<sup>+</sup> ~~Complete 3 credits total of FW 692 and/or FW 696.~~





Effective Fall 2017 ~~Spring 2017~~

Students must have a C or better in each of the following

courses: PSY 100, PSY 192, PSY 210, PSY 250, PSY 252, ~~PSY 311A~~, ~~PSY 350~~, PSY 401; and the three lecture-lab pairs in psychology.

Maximum of 12 credits allowed toward graduation for any combination

of PSY 295, PSY 296, PSY 384, PSY 484, PSY 486, PSY 487, PSY 488, PSY 495A-F, PSY 496A-F, PSY498A-F, PSY 499A-F.

<b>FRESHMAN</b>			
		<b>AUCC</b>	<b>CREDITS</b>
<u>CO 150</u>	College Composition (GT-CO2)	1A	3
<u>CS 110</u>	Personal Computing		4
<u>LIFE 102</u>	Attributes of Living Systems (GT-SC1)	3A	4
<u>MATH 117</u>	College Algebra in Context I (GT-MA1)	1B	1
<u>MATH 118</u>	College Algebra in Context II (GT-MA1)	1B	1
<u>MATH 124</u>	Logarithmic and Exponential Functions (GT-MA1)	1B	1
<u>PSY 100</u>	General Psychology (GT-SS3)	3C	3
<u>PSY 192</u>	Psychology First-Year Seminar		1
<del>PSY 252</del>	<del>Mind, Brain, and Behavior</del>	-	<del>3</del>
<u>PSY 210</u>	<u>Psychology of the Individual in Context</u>	-	<u>3</u>
Select one course from the following:			3
<u>PHIL 100</u>	Appreciation of Philosophy (GT-AH3)	3B	
<u>PHIL 110</u>	Logic and Critical Thinking (GT-AH3)	3B	
<u>PHIL 120</u>	History and Philosophy of Scientific Thought (GT-AH3)	3B	
<u>PHIL 205</u>	Introduction to Ethics		
<u>PHIL 210</u>	Introduction to Formal Logic		
<u>Historical Perspectives</u>		3D	3
<u>Social and Behavioral Sciences</u> <sup>1</sup>		3C	3
<b>Total Credits</b>			<b>30</b>
<b>SOPHOMORE</b>			
<u>CHEM 107</u>	Fundamentals of Chemistry (GT-SC2)	3A	4
<u>CHEM 108</u>	Fundamentals of Chemistry Laboratory (GT-SC1)	3A	1
<del>PSY 210</del>	<del>Psychology of the Individual in Context</del>	-	<del>3</del>
<u>PSY 250</u>	Research Design and Analysis I		<u>3</u> <del>4</del>
<u>PSY 252</u>	<u>Mind, Brain, and Behavior</u>	-	<u>3</u>
<u>PSY 320</u>	Abnormal Psychology		3
<u>SPCM 200</u>	Public Speaking		3

<u>Select one course from the following:</u>		3
<u>STAT 301</u>	<u>Introduction to Statistical Methods</u>	
<u>STAT 307</u>	<u>Introduction to Biostatistics</u>	
<u>STAT 311</u>	<u>Statistics for Behavioral Sciences I</u>	
<u>STAT 315</u>	<u>Statistics for Engineers and Scientists</u>	

<u>Arts and Humanities</u>	3B	6
<u>Global and Cultural Awareness</u>	3E	3
Electives		1
<b>Total Credits</b>		<b><u>30</u> 28</b>

<b>JUNIOR</b>			
<u>CO 300</u>	Writing Arguments (GT-CO3)	2	3
<u>PSY 310</u>	Basic Counseling Skills		3
<u>PSY 311A</u>	Basic Counseling Skills Laboratory: CACI	<u>4C</u>	2
<u>PSY 350</u>	<u>Research Design and Analysis II</u>	-	<u>3</u>
<u>PSY 360</u>	Psychology of Drug Addiction Treatment		3
<u>PSY 362</u>	Professional Issues in Addiction Treatment		3
<u>PSY 364</u>	Infectious Diseases and Substance Use		3
<u>PSY 454</u> <sup>2</sup>	Biological Psychology	4B	3
<u>PSY 455</u> <sup>2</sup>	Biological Psychology Laboratory	4A	2
<del><u>STAT 311</u></del>	<del><u>Statistics for Behavioral Sciences I</u></del>	-	<del>3</del>
<del><u>STAT 312</u></del>	<del><u>Statistics for Behavioral Sciences II</u></del>	-	<del>3</del>
Electives			<u>5</u> 4
<b>Total Credits</b>			<b><u>30</u> 32</b>

<b>SENIOR</b>			
<u>BMS 300</u>	Principles of Human Physiology		4
<u>PSY 488</u>	Field Placement	4C	<u>6</u>
<del>Electives</del>		-	<del>1</del> 2

<u>Select one course from the following:</u>		-	<u>3</u>
<u>CHEM 320</u>	Chemistry of Addictions		
<del>Select two groups from the following:</del>		-	<del>9</del> 10
<u>PSY 410</u>	Psychobiology of Addictions		
<u>Select two groups from the following:</u> <sup>2</sup>		-	<u>9</u> 10
Group A:			
<u>PSY 315</u>	Social Psychology	4B	
<u>PSY 317</u>	Social Psychology Laboratory	4A	
Group B:			

<u>PSY 370</u>	Psychological Measurement and Testing	4B	
<u>PSY 371</u>	Psychological Measurement and Testing Lab	4A	
Group C:			
<u>PSY 452</u>	Cognitive Psychology	4B	
<u>PSY 453</u>	Cognitive Psychology Laboratory	4A	
Group D:			
<u>PSY 458</u>	Cognitive Neuroscience	4B	
<u>PSY 459</u>	Cognitive Neuroscience Laboratory	4A	
<u>PSY 401</u>	<del>History and Systems of Psychology</del>	<del>4C</del>	<del>3</del>
Electives <sup>3</sup>		-	<del>7-8</del> <del>1-2</del>
<b>Total Credits</b>			<b>30</b>
<b>Program Total Credits:</b>			<b>120</b>

<sup>1</sup> Select from the list of courses in category 3C of the AUCC except HONR 492 or any PSY course.

<sup>2</sup> Students should select a total of three lecture/lab pairs of courses over the junior and senior years. Two pairs are necessary to satisfy AUCC Cat 4A and 4B requirements.

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



### *Program Deactivations*

College of Health and Human Sciences  
Department of Health and Exercise Science

Effective Fall 2017

Master of Science in Health and Exercise Science, Exercise Science and Nutrition Specialization, Plan A

### ~~Effective Spring 2009~~

<del>Code</del>	<del>Title</del>	<del>Credits</del>
<del><u>FSHN 550</u></del>	<del>Advanced Nutritional Science I</del>	<del>3</del>
<del><u>FSHN 551</u></del>	<del>Advanced Nutritional Science II</del>	<del>3</del>
<del><u>FSHN 630/HES 630</u></del>	<del>Integrative Exercise and Nutrition Metabolism</del>	<del>3</del>
<del><u>HES 520</u></del>	<del>Advanced Exercise Testing and Prescription</del>	<del>3</del>
<del><u>HES 556</u></del>	<del>Wellness and Health Promotion Concepts</del>	<del>3</del>
<del><u>HES 600</u></del>	<del>Research Design in Health/Exercise Science</del>	<del>3</del>
<del><u>HES 610</u></del>	<del>Exercise Bioenergetics</del>	<del>3</del>
<del><u>HES 645</u></del>	<del>Epidemiology of Health and Physical Activity</del>	<del>3</del>
<del>Select one from the following:</del>		<del>3</del>
<del><u>HES 686A</u></del>	<del>Practicum: Adult Fitness Human Performance Clinical/Research Laboratory</del>	
<del><u>HES 686B</u></del>	<del>Practicum: Wellness Management</del>	

Code	Title	Credits
<u>HES 686C</u>	Practicum: Youth Fitness and Skill Development	
<u>HES 686D</u>	Practicum: Health and Exercise Science Research	
<u>HES 686E</u>	Practicum: Applied Health and Exercise Science	
<u>HES 692/HES 693</u>	Seminar	<b>3</b>
Elective <sup>+</sup>		2
<u>HES 699</u>	Thesis	6
<b>Program Total Credits:</b>		<b>38</b>

A minimum of 38 credits are required to complete this program.

<sup>+</sup> Nutrition regular course elective, 500 level or above (minimum 2 credits).



College of Health and Human Sciences  
 Department of Food Science & Human Nutrition  
 Master of Science in Food Science and Nutrition, Nutrition and Exercise Science Specialization, Plan A

Effective Fall 2017

## Effective Spring 2009

Code	Title	Credits
<u>BMS 500</u> or <u>BMS 501</u>	Mammalian Physiology I Mammalian Physiology II	4
<u>FSHN 550</u>	Advanced Nutritional Science I	3
<u>FSHN 551</u>	Advanced Nutritional Science II	3
<u>FSHN 630/HES 630</u>	Integrative Exercise and Nutrition Metabolism	3
<u>FSHN 692</u>	Seminar	1
Select one course from the following:		2
<u>FSHN 650A</u>	Recent Developments in Human Nutrition: Protein, Vitamins, and Minerals	
<u>FSHN 650B</u>	Recent Developments in Human Nutrition: Carbohydrates, Lipids, and Energy	
<u>FSHN 650C</u>	Recent Developments in Human Nutrition: Genomic, Proteomics, and Metabolomics	
<u>HES 610</u>	Exercise Bioenergetics	3
<u>HES 645</u>	Epidemiology of Health and Physical Activity	3
Select one course from the following:		3-4
<u>ERHS 542</u>	Biostatistical Methods for Qualitative Data	
<u>ERHS 544/STAT 544</u>	Biostatistical Methods for Quantitative Data	
<u>STAT 511</u>	Course STAT 511 Not Found	
Food Science and Human Nutrition Elective <sup>+</sup>		2-3
Health and Exercise Science Elective <sup>2</sup>		3

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<del><b>FSHN 699B</b></del>	<del>Thesis: Nutrition</del>	<del>Var.</del>
<del><b>Program Total Credits:</b></del>		<del><b>40-41</b></del>

~~A minimum of 40 credits are required to complete this program.~~

~~+ Food Science and Human Nutrition elective, 500 level or above.~~

~~<sup>2</sup> Health and Exercise Science regular course elective, 500 level or above (minimum 3 credits).~~



## Effective Spring 2009

Code	Title	Credits
<u>BMS 500</u> or <u>BMS 501</u>	Mammalian Physiology I Mammalian Physiology II	4
<u>FSHN 550</u>	Advanced Nutritional Science I	3
<u>FSHN 551</u>	Advanced Nutritional Science II	3
<u>FSHN 630/HES 630</u>	Integrative Exercise and Nutrition Metabolism	3
<u>FSHN 692</u>	Seminar	1
Select one course from the following:		2
<u>FSHN 650A</u>	Recent Developments in Human Nutrition: Protein, Vitamins, and Minerals	
<u>FSHN 650B</u>	Recent Developments in Human Nutrition: Carbohydrates, Lipids, and Energy	
<u>FSHN 650C</u>	Recent Developments in Human Nutrition: Genomic, Proteomics, and Metabolomics	
<u>HES 610</u>	Exercise Bioenergetics	3
<u>HES 645</u>	Epidemiology of Health and Physical Activity	3
Select one course from the following:		3-4
<u>ERHS 542</u>	Biostatistical Methods for Qualitative Data	
<u>ERHS 544/STAT 544</u>	Biostatistical Methods for Quantitative Data	
<u>STAT 511</u>	Course STAT 511 Not Found	
Food Science and Human Nutrition Electives		5
Health and Exercise Science regular course elective		3
<u>FSHN 698B</u>	Research: Nutrition	Var.
<b>Program Total Credits:</b>		<b>37-38</b>

A minimum of 37 credits are required to complete this program.



### Other Business

- A request to offer the experimental course CM 580A1 for a third offering was approved for Fall 2017. See memo after the Consent Agenda.
- The UCC Curriculum Deadlines for Spring 2018-Fall 2019 were approved – see document after the Consent Agenda.
- Carole Makela (HHS) and Mike Hogan (CLA) were elected as UCC Co-Chairs for 2017-18.
- Dr. Paul Thayer presented data on how curriculum can be/is a contributor to student success.
- Reviewed draft of the 2016-17 UCC Annual Report (to be submitted to Faculty Council).



**Updates/Corrections to Previous Minutes**

1. ANTH 319 has been dual-listed with ETST 319 and was deactivated effective Fall 2016. In the Major in Ethnic Studies, ANTH 319 was removed from the Sophomore year effective Fall 2017. Due to the course deactivation, ANTH 319 should also be removed from the Junior year Global Ethnic Studies elective list.

**Junior year:**

---

Global Ethnic Studies (select from the following)

---

~~ANTH 319~~

~~Latin American Peasantries~~

---

ETST 205

Ethnicity and the Media (GT-SS3)

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ETST 256

Border Crossings: People/Politics/Culture (GT-SS3)

---

ETST 300

Queer Studies and Women of Color

---

ETST 365

Global Environmental Justice Movements

---

ETST 370

Caribbean Identities

---

ETST 371

The Modern Caribbean

---

2. ART 200 was approved as a new course on the 2/24/17 UCC minutes with a Spring 2018 effective term. The department originally requested a Fall 2017 effective term. It has been deemed appropriate to change the effective term from Spring 2018 to Fall 2017 per the department's request.

Course	Original Effective Date	Correct Effective Date
ART 200	<del>Spring 2018</del>	Fall 2017



The meeting adjourned at 4:35 p.m.

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



University Curriculum Committee  
 May 5, 2017  
**CONSENT AGENDA**

<b>Experimental Courses – 1<sup>st</sup> Offering</b>			
	<b>Course Title</b>		<b>Effective Term</b>
<a href="#">ANEQ 781A1</a>	Seminar-Microbiome Analysis		Fall 2017
<a href="#">ENGR 581A2</a>	Coupled Electromechanical Systems		Fall 2017
<a href="#">F 581A3</a>	Multiple Resources Silviculture		Fall 2017
<a href="#">JTC 480A3</a>	Creative Media Entrepreneurship		Fall 2017
<a href="#">GEOL 581A7</a>	Reservoir Characterization and Modeling		Fall 2017
<a href="#">MECH 581A8</a>	Cardiovascular Biomechanics		Fall 2017
<a href="#">POLS 580A2</a>	The Politics of Administrative Law		Fall 2017
<b>Minor Changes to Courses</b>			
	<b>Course Title</b>	<b>Requested Change</b>	<b>Effective Term</b>
<a href="#">ECE 652</a>	Estimation and Filtering Theory	<b>Offering Year:</b> <del>Odd</del> <b>Every</b> <b>Prerequisite:</b> <del>(ECE 411 or ECE 412) and (ECE 514 or STAT 525)</del>	Spring 2018
<a href="#">ECE 653</a>	Detection Theory	<b>Course Number:</b> <del>653</del> <b>654</b> <b>Offering Year:</b> <del>Odd</del> <b>Every</b> <b>Prerequisite:</b> <del>ECE 652, ECE 512 and ECE 514.</del>	Spring 2018
<a href="#">JTC 310</a>	Copy Editing	<b>Prerequisite:</b> <del>JTC 100 and</del> JTC 210.	Spring 2018
<a href="#">JTC 347</a>	Audio Production and Editing	<b>Prerequisite:</b> <del>None</del> <del>JTC 340</del>	Spring 2018
<a href="#">JTC 421</a>	Media, Business, and Economics	<b>Prerequisite:</b> <del>None</del> <del>JTC 326, may be taken concurrently</del> <b>Registration Information:</b> <del>Junior standing.</del>	Spring 2018
<a href="#">PSY 340</a>	Organizational Psychology	<b>Prerequisite:</b> <del>(PSY 250) and (STAT 301 or STAT 311)</del>  <b>Registration Information:</b> <del>Must have concurrent registration in PSY 341.</del> Sections may be offered: Online.	Spring 2018
<a href="#">PSY 360</a>	Psychology of Drug Addiction Treatment	<b>Prerequisite:</b> <del>PSY 100, PSY 320</del>	Spring 2018
<a href="#">PSY 370</a>	Psychological Measurement and Testing	<b>Prerequisite:</b> <del>PSY 250, (PSY 100) and (STAT 301 or STAT 311)</del>  <b>Registration Information:</b> <del>Must have concurrent registration in PSY 371.</del> Sections may be offered: Online.	Spring 2018
<a href="#">PSY 440</a>	Industrial Psychology	<b>Prerequisite:</b> <del>PSY 250; concurrent registration in PSY 441; STAT 301 or STAT 311.</del>  <b>Registration Information:</b> <del>Must have concurrent registration in PSY 441.</del> Sections may be offered: Online.	Spring 2018
<b>Course Drops</b>			
	<b>Course Title</b>	<b>Requested Change</b>	<b>Effective Term</b>
<a href="#">INST 300</a>	Approaches to International Studies	Drop	Summer 2017





**STAT 511A and STAT 511B Changes to Program**

**Intra-University  
 Graduate Degree Program in Ecology  
 Master of Science in Ecology, Plan A**

**Effective Spring 2018**

Effective [Spring 2018](#) ~~Fall 2016~~

**ECOLOGY TOOLS**

Select 3 credits not taken elsewhere in the program from the following:

3

<a href="#">AREC 535/ECON 535</a>	Applied Econometrics
<a href="#">AREC 635/ECON 635</a>	Econometric Theory I
<a href="#">AREC 735/ECON 735</a>	Econometric Theory II
<a href="#">BZ 577/MIP 577</a>	Computer Analysis in Population Genetics
<a href="#">CIVE 524/WR 524</a>	Modeling Watershed Hydrology
<a href="#">ERHS 544/STAT 544</a>	Biostatistical Methods for Quantitative Data
<a href="#">ESS 565</a>	Niche Models
<a href="#">ESS 575</a>	Models for Ecological Data
<a href="#">FW 551</a>	Design of Fish and Wildlife Studies
<a href="#">FW 552</a>	Applied Sampling for Wildlife/Fish Studies
<a href="#">FW 663</a>	Sampling and Analysis of Vertebrate Populations
<a href="#">FW 673/STAT 673</a>	Hierarchical Modeling in Ecology
<a href="#">GR 503/NR 503</a>	Remote Sensing and Image Analysis
<a href="#">MATH 530</a>	Mathematics for Scientists and Engineers
<a href="#">MATH 540</a>	Dynamical Systems
<a href="#">NR 505</a>	Concepts in GIS
<a href="#">NR 506</a>	GIS Methods for Resource Management
<a href="#">NR 512</a>	Spatial Statistical Modeling-Natural Resources
<a href="#">NR 523/STAT 523</a>	Quantitative Spatial Analysis
<a href="#">NR 554/ANTH 554</a>	Ecological and Social Agent-based Modeling
<a href="#">NR 621</a>	Design of Geographic Information Systems
<a href="#">NRRT 765</a>	Applied Multivariate Analysis
<a href="#">SOCR 522</a>	Micrometeorology
<a href="#">SOCR 620</a>	Modeling Ecosystem Biogeochemistry
<a href="#">SOCR 670</a>	Terrestrial Ecosystems Isotope Ecology
<a href="#">STAT 511</a>	<a href="#">Course STAT 511 Not Found</a>
<a href="#">STAT 511A</a>	<a href="#">Design and Data Analysis for Researchers I: R Software</a>
<a href="#">STAT 511B</a>	<a href="#">Design and Data Analysis for Researchers I: SAS Software</a>
<a href="#">STAT 512</a>	Design and Data Analysis for Researchers II

<u>STAT 520</u>	Introduction to Probability Theory	
<u>STAT 521</u>	Stochastic Processes I	
<u>STAT 530</u>	Mathematical Statistics	
<u>STAT 540</u>	Data Analysis and Regression	
<u>STAT 560</u>	Applied Multivariate Analysis	
<u>STAT 675A</u>	Topics in Statistical Methods: Sampling	
<u>STAT 675B</u>	Topics in Statistical Methods: Design	
<u>STAT 675C</u>	Topics in Statistical Methods: Multivariate and Regression Methods	
<u>STAT 675D</u>	Topics in Statistical Methods: Computer Intensive Methods	
<u>STAT 675F</u>	Topics in Statistical Methods: Robustness and Nonparametric Methods	
<u>WR 674</u>	Data Issues in Hydrology	
<b>ADDITIONAL ELECTIVES, INDEPENDENT STUDY, RESEARCH, AND THESIS</b>		<b>15</b>
<b>Program Total Credits:</b>		<b>30</b>



Intra-University  
 Graduate Degree Program in Ecology  
 Master of Science in Ecology, Plan B

Effective Spring 2018

Effective Spring 2018 ~~Fall 2016~~

<b>ECOLOGY TOOLS</b>		
<b>Select 3 credits not taken elsewhere in the program from the following:</b>		<b>3</b>
<u>AREC 535</u>	Applied Econometrics	
<u>AREC 635</u>	Econometric Theory I	
<u>AREC 735</u>	Econometric Theory II	
<u>BZ 577/MIP 577</u>	Computer Analysis in Population Genetics	
<u>CIVE 524/WR 524</u>	Modeling Watershed Hydrology	
<u>ESS 565</u>	Niche Models	
<u>ESS 575</u>	Models for Ecological Data	
<u>FW 551</u>	Design of Fish and Wildlife Studies	
<u>FW 552</u>	Applied Sampling for Wildlife/Fish Studies	
<u>FW 663</u>	Sampling and Analysis of Vertebrate Populations	
<u>FW 673/STAT 673</u>	Hierarchical Modeling in Ecology	
<u>GR 503/NR 503</u>	Remote Sensing and Image Analysis	
<u>MATH 530</u>	Mathematics for Scientists and Engineers	
<u>MATH 540</u>	Dynamical Systems	
<u>NR 505</u>	Concepts in GIS	
<u>NR 506</u>	GIS Methods for Resource Management	

<u>NR 512</u>	Spatial Statistical Modeling-Natural Resources	
<u>NR 523/STAT 523</u>	Quantitative Spatial Analysis	
<u>NR 554/ANTH 554</u>	Ecological and Social Agent-based Modeling	
<u>NR 621</u>	Design of Geographic Information Systems	
<u>NRRT 765</u>	Applied Multivariate Analysis	
<u>SOCR 522</u>	Micrometeorology	
<u>SOCR 620</u>	Modeling Ecosystem Biogeochemistry	
<u>SOCR 670</u>	Terrestrial Ecosystems Isotope Ecology	
<u>STAT 511</u>	<u>Course STAT 511 Not Found</u>	
<u>STAT 511A</u>	<u>Design and Data Analysis for Researchers I: R Software</u>	
<u>STAT 511B</u>	<u>Design and Data Analysis for Researchers I: SAS Software</u>	
<u>STAT 512</u>	Design and Data Analysis for Researchers II	
<u>STAT 520</u>	Introduction to Probability Theory	
<u>STAT 521</u>	Stochastic Processes I	
<u>STAT 530</u>	Mathematical Statistics	
<u>STAT 540</u>	Data Analysis and Regression	
<u>STAT 544</u>	Biostatistical Methods for Quantitative Data	
<u>STAT 560</u>	Applied Multivariate Analysis	
<u>STAT 675A</u>	Topics in Statistical Methods: Sampling	
<u>STAT 675B</u>	Topics in Statistical Methods: Design	
<u>STAT 675C</u>	Topics in Statistical Methods: Multivariate and Regression Methods	
<u>STAT 675D</u>	Topics in Statistical Methods: Computer Intensive Methods	
<u>STAT 675F</u>	Topics in Statistical Methods: Robustness and Nonparametric Methods	
<u>WR 674</u>	Data Issues in Hydrology	
<b>ADDITIONAL ELECTIVES, AND INDEPENDENT STUDY</b>		<b>15</b>
<b>Program Total Credits:</b>		<b>30</b>





Cell & Molecular Biology  
Graduate Program

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<http://www.cmb.colostate.edu>

May 1, 2017

University Curriculum Committee  
Colorado State University

To the Committee:

We request approval to offer CM 580A1 Protein Basics for Non-Biologists for a third time. This course is a key component of the GAUSSI program (Generating, Analyzing and Understanding Sensory and Sequencing Information). This NSF-funded transdisciplinary training program includes students in disciplines such as computer science and statistics that often lack sufficient background in biochemistry and molecular biology necessary for them to communicate with and understand scientists working in those fields. This course serves to provide them with that knowledge.

Although we submitted a request for a regular course number for this class, we underestimated the time that it would take for its approval by multiple departments and colleges. The proposal has also required revisions and we anticipate its approval in the near future. We apologize for the delay in the proposal's routing to the UCC by the deadline for Fall 2017 courses. It is important for the success of our students and program to be able to offer the course in the fall.

Please contact me if there are any questions regarding this request.

Sincerely,

A handwritten signature in cursive script that reads "Howard L. Liber".

Howard L. Liber  
Professor, Environmental and Radiological Health Sciences  
Director, Cell and Molecular Biology Graduate Program  
[howard.liber@colostate.edu](mailto:howard.liber@colostate.edu)