

A regular meeting of the University Curriculum Committee was held on April 14, 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, and Graduate Student Rep. Kevin Jablonski.

Curriculum Unit: Shelly Ellerby and Kayleen Allen.

Guests: Julia Murphy (Registrar's Office) and Doreen Hyatt (Professor, Microbiology, Immunology & Pathology)

Absent: Undergraduate Student Rep. and VPUA Kelly Long, ex-officio.

Minutes

The Minutes of April 7, 2017 were approved.

Consent Agenda

Approved.

<i>New Course</i>	<i>Effective Term</i>
DSCI 445 Statistical Machine Learning 3(3-0-0) F	Fall 2018
Prerequisite: DSCI 320; DSCI 369; STAT 341.	
Registration Information: Credit allowed for only one of the following: CS 445, CS 480A3, or DSCI 445.	
Description: Algorithms and statistical methods for regression, classification, and clustering; hands-on experience in analyzing data and running machine learning experiments.	
Grade Mode: Traditional.	
[AUCC 4B: Building Upon Foundations and Perspectives proposal was not considered at this time. The 4B request will be considered at the same time as the program proposals.]	
DSCI 475 Topological Data Analysis 2(2-0-0) S	Spring 2018
Permanent Partial Semester: Yes.	
Prerequisite: DSCI 473.	
Registration Information: This is a partial semester course.	
Description: Topological techniques for analyzing high-dimensional or complex data. Topics include clustering, dendrograms, a visual introduction to topology, data modeling and visualization, and selected topics from nonlinear dimensionality reduction, graph-based models of data, Reeb graphs, multi-scale approaches to data, and persistent homology.	
Grade Mode: Traditional.	
DSCI 478 Capstone Group Project in Data Science 4(0-0-8) S	Spring 2019
Prerequisite: DSCI 445.	
Registration Information: Senior standing only.	
Description: Group-project-based capstone, in which small groups of students from each Data Science degree concentration work collectively on a problem in data science	
Grade Mode: Traditional.	
[AUCC 4A: Using Competencies, and Perspectives and AUCC 4C: Capstone Experience proposals were not considered at this time. The AUCC 4A and 4C request will be considered at the same time as the program proposals.]	



<i>Major Changes to Courses</i>	<i>Effective Term</i>
SOWK 640 Contemporary Issues in Military Culture 3(0-0-3) S, SS Permanent Partial Semester: <u>No</u> Yes Prerequisite: None. Registration Information: Offered as an online course only. Description: Exploration of multiple issues informing social work practice with military and veteran populations including ethical decision making in military social work, resources for veterans, challenges faced by women in the military, secondary trauma, and problems veterans face, such as homelessness, addiction, reintegration, mental illness, suicide. Military culture, the different branches of the military, and generational differences among military personnel will be examined. Grade Mode: Traditional.	Spring 2018

SOWK 641 Military Family Systems 3(0-0-3) F SS Permanent Partial Semester: <u>No</u> Yes Prerequisite: None. Restriction: Must be a: Graduate, Professional. Registration Information: Offered as an online course only. Description: Exploration of effectively engaging with military families. Strategies to assess and intervene with military and veteran couples, children, and families will be examined. Exploration of topics of integration and reintegration; grief, loss, and bereavement; family-centered programs; support of guard/reserve families; deployment; support of veteran caregivers; and effective interventions through a systems framework. Grade Mode: Traditional.	Spring 2018
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New Graduate Certificate

College of Agricultural Sciences Effective Spring 2018
 Department of Agricultural and Resource Economics
 Graduate Certificate in Teaching in Extension

Effective Spring 2018

Additional coursework may be required due to prerequisites.

Code	Title	Credits
AGED 525	Agricultural and Extension Teaching	<u>3</u>
AGRI 546	Principles of Cooperative Extension	<u>3</u>
AGRI 547	Delivery of Cooperative Extension Programs	<u>4</u>
<u>Select one course from the following:</u>		<u>3</u>
AGED 600	Evaluation and Applied Research in Extension	
EDAE 5XX-7XX		
HDFS 5XX-7XX		

Program Total Credits: **13**

*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
 Interdisciplinary Minor in Food Industry Management

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
Required Courses		
<u>AREC 202</u>	Agricultural and Resource Economics (GT-SS1)	3
<u>AREC 311</u>	Agricultural and Resource Product Marketing	3
AREC Electives		
Select at least two courses from the following:		6
<u>AREC 305</u> [3]	Agricultural and Resource Enterprise Analysis	
<u>AREC 325</u> [3]	Personnel Management in Agriculture	
<u>AREC 375</u> [3]	Agricultural Law	
<u>AREC 328</u> [3] or <u>AREC 428</u> [3]	Small Agribusiness Management Agricultural Business Management	
<u>AREC 478</u> [3]	Agricultural Policy	
Food Industry Electives		
Select a minimum of 9 credits from the following:		9
<u>FTEC 110</u> [3]	Food-From Farm to Table	
<u>FTEC 400</u> [3]	Food Safety	
<u>HORT 100</u> [4]	Horticultural Science	
<u>MGT 301</u> [3]	Supply Chain Management	
<u>RRM 310</u> [3]	Food Service Systems-Operations	
<u>RRM 311</u> [3]	Food Service Systems-Production and Purchasing	
<u>RRM 330</u> [2]	Alcohol Beverage Control and Management	
<u>RRM 345</u> [3]	Food, Beverage, and Labor Cost Control	
<u>RRM 460/NRRT 460</u> [3]	Event and Conference Planning	

Program Total Credits:

21



Major Changes to Existing Programs

College of Agricultural Sciences
 Master of ~~Agricultural~~ Extension Education, Plan C (M.~~A.~~E.E.)

Effective Fall 2017

Effective Fall 2017 ~~2011~~

Code	Title	Credits
Required Courses		
AGRI 500	Advanced Issues in Agriculture	3
AGED 510	American Agricultural Values and Ideology	3
AGED 525	Agricultural and Extension Teaching	3
AGED 587	Internship in Extension	2
AGED 600	Evaluation and Applied Research in Extension	3
AGRI 546	Principles of Cooperative Extension	3
AGRI 547	Delivery of Cooperative Extension Programs	4
AGRI 587A	Internship- Domestic¹	1-6
or AGRI 587B	Internship- International	
Education Course Electives		
Select a minimum of 6 credits of EDAAE, EDOD, or EDUC courses at the 500-level or above with approval of the student's graduate advisor.		6
Graduate Electives²		13-14
Undergraduate Electives³		0-6
Select a minimum of 9 credits from AGED, AGRI, EDAAE, HDFS, JTC, and SOWK courses at the 500-level or above with approval of the student's graduate advisor.¹		9
Select a minimum of 9 credits disciplinary course work at the 500-level or above with approval of the student's graduate advisor.¹		9
Program Total Credits:		36

A minimum of 36 credits are required to complete this program. Of the 36 minimum credits required for this program, at least 24 credits must be earned at CSU. No independent study, research, supervised college teaching, or practicum credits may apply toward the degree.

¹ ~~A maximum of 6 credits may apply toward the degree.~~

² A minimum of 21 credits must be earned at the 500-level or above in the student's area of study approved by the student's graduate advisor.

³ ~~A maximum of 6 credits at the 400-level with approval by the student's graduate advisor taken after completion of the bachelor's degree may apply toward the degree.~~



College of Business
Department of Accounting
Master of Accountancy, Plan C, Taxation Specialization

Effective Fall 2018

Effective Fall 2018 ~~2017~~

Code	Title	Credits
Required Core		
<u>ACT 540</u>	Professional Ethics and Responsibilities	3
<u>ACT 561</u>	Legal and Regulatory Issues in Accounting	3
<u>ACT 601A</u>	Professional Practice: Taxation	3
<u>ACT 631</u>	Corporate Taxation	3
<u>ACT 641</u>	Contemporary Auditing	3
Required Courses		
<u>ACT 633</u>	Flow-Through Entities	3
<u>ACT 635</u>	State and Local Taxation	3
<u>ACT 636</u>	Taxation of Corporations and Shareholders	3
<u>ACT 639</u>	Special Topics in Taxation	3
Elective Courses		3
Select 3 credits from the following:		
<u>ACT 541</u>	Forensic Accounting and Fraud Auditing	
<u>ACT 550</u>	<u>Accounting Information Technologies</u>	
<u>ACT 570</u>	Government and Nonprofit	
<u>ACT 575</u>	Oil and Gas Accounting	
<u>ACT 612</u>	<u>Issues in Financial Reporting and Auditing</u>	
<u>ACT 614</u>	<u>Financial Statement Analysis and Valuation</u>	
<u>CIS 570</u>	<u>Business Intelligence</u>	
<u>CIS 575</u>	<u>Applied Data Mining and Analytics in Business</u>	
<u>CIS 600</u>	<u>Information Technology and Project Management</u>	
<u>CIS 601</u>	<u>Enterprise Computing and Systems Integration</u>	
<u>FIN 475</u>	<u>International Business Finance</u>	
<u>MGT 468</u>	<u>Negotiating Globally</u>	
<u>MGT 476</u>	<u>Negotiation and Conflict Management</u>	

Program Total Credits:

30

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



College of Natural Sciences
Department of Mathematics
Major in Mathematics, Actuarial Science Concentration

Effective Spring 2018 ~~Summer 2017~~

A minimum grade of C is required in all mathematics, statistics, and computer science courses which are required for graduation.

FRESHMAN			AUCC	CREDITS
<u>CO 150</u>	College Composition (GT-CO2)		1A	3
<u>ECON 202</u>	Principles of Microeconomics (GT-SS1)		3C	3
<u>ECON 204</u>	Principles of Macroeconomics (GT-SS1)		3C	3
<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
<u>MATH 192</u>	First Year Seminar in Mathematical Sciences			1
<u>Arts and Humanities</u>			3B	3
<u>Biological and Physical Sciences</u> ¹			3A	5
<u>Global and Cultural Awareness</u>			3E	3
Elective				1
Total Credits				30
SOPHOMORE				
<u>ACT 210</u> ²	Introduction to Financial Accounting			3
<u>FIN 310</u>	Financial Markets and Institutions			3
<u>MATH 235</u>	<u>Introduction to Mathematical Reasoning</u>		-	<u>2</u>
<u>MATH 261</u>	Calculus for Physical Scientists III			4
<u>MATH 369</u>	Linear Algebra I		4A	3
<u>STAT 315</u>	Statistics for Engineers and Scientists			3
<u>Arts and Humanities</u>			3B	3
Select one group from the following:				
Group A:				
<u>CS 163</u> or <u>164</u>	Java (CS1) No Prior Programming Java (CS1) Prior Programming			4
Group B:				
<u>CS 155</u>	Introduction to Unix			
<u>CS 156</u>	Introduction to C Programming I			
In addition, to complete Group B, select at least two of the following:				
<u>CS 157</u>	Introduction to C Programming II			
<u>CS 158/MATH 158</u>	Mathematical Algorithms in C			
<u>MATH 151</u>	Mathematical Algorithms in Matlab I			
<u>MATH 152</u>	Mathematical Algorithms in Maple			

<u>Biological and Physical Sciences</u> ¹		3A	5
<u>Historical Perspectives</u>		3D	3
Total Credits			<u>30</u>31
JUNIOR			
<u>FIN 300</u>	Principles of Finance		3
<u>ECON 335/AREC 335</u>	Introduction to Econometrics		3
<u>JTC 300</u>	Professional and Technical Communication (GT-CO3)	2	3
<u>MATH 317</u>	Advanced Calculus of One Variable	4B	<u>3</u> 4
<u>STAT 420</u>	Probability and Mathematical Statistics I		3
<u>STAT 421</u>	Introduction to Stochastic Processes		3
<u>STAT 430</u>	Probability and Mathematical Statistics II		3
Select one from the following:		-	<u>4</u>
<u>MATH 340</u>	<u>Introduction to Ordinary Differential Equations</u>	-	-
<u>MATH 345</u>	Differential Equations		
<u>Arts and Humanities</u>		<u>3B</u>	<u>3</u>
Elective			<u>2</u> 3
Total Credits			<u>30</u>29
SENIOR			
<u>BUS 205</u>	Legal and Ethical Issues in Business		3
<u>FIN 342</u>	Risk Management and Insurance		3
<u>FIN 370</u>	Financial Management-Theory and Application		3
<u>MATH 417</u>	Advanced Calculus I	4C	3
<u>MATH 495</u> ³	Independent Study		1
Electives ⁴			30+17
Total Credits			30
Program Total Credits:			120

- ¹ Students in this concentration must take a total of 10 credits in category 3A, and at least one course must have a laboratory component.
- ² Students in this concentration may need to obtain a prerequisite override from the appropriate department to enroll in this class.
- ³ Preparation for Exam I.
- 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 Natural Sciences
 Department of Mathematics
 Major in Mathematics, Applied Mathematics Concentration

Effective Spring ~~2017~~ 2018

A minimum grade of C is required in all mathematics, statistics, and computer science courses which are required for graduation.

FRESHMAN			
		AUCC	CREDITS
<u>CO 150</u>	College Composition (GT-CO2)	1A	3
<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
<u>MATH 192</u>	First Year Seminar in Mathematical Sciences		1
<u>Arts and Humanities</u>		3B	6
<u>Global and Cultural Awareness</u>		3E	3
<u>Historical Perspectives</u>		3D	3
<u>Social and Behavioral Sciences</u>		3C	3
Electives			3
Total Credits			30
SOPHOMORE			
<u>MATH 235</u>	<u>Introduction to Mathematical Reasoning</u>	-	<u>2</u>
<u>MATH 261</u>	Calculus for Physical Scientists III		4
<u>MATH 301</u>	Introduction to Combinatorial Theory		3
<u>MATH 369</u>	Linear Algebra I	4A	3
<u>PH 141</u>	Physics for Scientists and Engineers I (GT-SC1)	3A	5
<u>PH 142</u>	Physics for Scientists and Engineers II (GT-SC1)	3A	5
<u>STAT 315</u>	Statistics for Engineers and Scientists		3
Select one course from the following:		-	3
<u>STAT 341</u>	Statistical Data Analysis I	-	-
<u>STAT 400</u>	Statistical Computing	-	-
<u>STAT 420</u>	Probability and Mathematical Statistics I	-	-
Select one group from the following:			4
Group A:			
<u>CS 163</u> or <u>164</u>	Java (CS1) No Prior Programming Java (CS1) Prior Programming		
Group B:			
<u>CS 155</u>	Introduction to Unix		
<u>CS 156</u>	Introduction to C Programming I		

In addition, to complete Group B, select at least two of the following:			
<u>CS 157</u>	Introduction to C Programming II		
<u>CS 158/MATH 158</u>	Mathematical Algorithms in C		
<u>MATH 151</u>	Mathematical Algorithms in Matlab I		
<u>MATH 152</u>	Mathematical Algorithms in Maple		

Elective - 1

Total Credits 30

JUNIOR

<u>JTC 300</u>	Professional and Technical Communication (GT-CO3)	2	3
<u>MATH 317</u>	Advanced Calculus of One Variable	4B	34
<u>MATH 450</u>	Introduction to Numerical Analysis I		3
<u>MATH 451</u>	Introduction to Numerical Analysis II		3

Select one course from the following: - 4

<u>MATH 340</u>	<u>Introduction to Ordinary Differential Equations</u>	-	-
<u>MATH 345</u>	Differential Equations		

Biological and Physical Sciences¹ 3A 3

Mathematics Sciences² 3

Related Area³ 6

Electives 3

Total Credits 31~~32~~

SENIOR

<u>MATH 435</u>	Projects in Applied Mathematics	4C	3
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Select one group from the following: 6

Group A:

<u>MATH 332</u>	Partial Differential Equations		
<u>MATH 417</u>	Advanced Calculus I		

Group B:

<u>MATH 360</u>	Mathematics of Information Security		
<u>MATH 460</u>	Information and Coding Theory		

Select one course from the following: - 3

<u>STAT 341</u>	<u>Statistical Data Analysis I</u>	-	-
<u>STAT 400</u>	<u>Statistical Computing</u>	-	-
<u>STAT 420</u>	<u>Probability and Mathematical Statistics I</u>	-	-

Mathematical Sciences² 3

Related Area³ 6

Electives⁴ 8~~10~~

Total Credits **2928**

Program Total Credits: **120**

- ¹ Select from the list of courses (in a department other than Physics) in category 3A in the AUCC.
- ² Select from upper-division MATH, CS, STAT courses, except those ending in –80 to –99.
- ³ A coherent set of courses outside the Mathematics Department in which mathematics is applied, approved by the concentration coordinator.
- 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).



The meeting adjourned at 3:50 p.m.

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



University Curriculum Committee
 April 14, 2017
CONSENT AGENDA

Experimental Courses – 1st Offering			
	Course Title	Effective Term	
GES481A1/ MSE 481A1	Sustainable Strategies for E-Waste Management	Fall 2017	
Experimental Courses – 2nd Offering (For Informational Purposes Only)			
	Course Title	Effective Term	
GEOL 680A1	Field Geomorphology	Fall 2017	
MIP 681A2	Mycobacterial Research Library Seminar	Fall 2017	
Course Drops			
	Course Title	Requested Change	Effective Term
AA 150	Observational Astronomy	Drop	Summer 2017