

# College of Engineering, Forestry and Natural Sciences

## Curriculum and Assessment Committee Agenda

### February 20, 2018

#### I. Minutes from previous meeting – [January 24, 2017 Minutes](#)

#### II. Action Items

			<u>Effective Date</u>	<u>Summary of Changes</u>
<b><u>SICCS</u></b>				
1. <a href="#">CS 451</a> CS 451 Support Link: <a href="#">CS 551</a>	3	MECHANIZED REASONING ABOUT PROGRAMS	Fall 2018	Co-convene, New Course
2. <a href="#">CS 551</a> CS 551 Support Link: <a href="#">CS 451</a>	3	ADVANCED MECHANIZED REASONING ABOUT PROGRAMS	Fall 2018	Co-convene, New Course
3. <a href="#">CS 470</a> CS 470 Support Link: <a href="#">CS 570</a>	3	INTRODUCTION TO INTELLIGENT SYSTEMS	Fall 2018	Catalog Descr, Co-convene, Course Title
4. <a href="#">CS 570</a> CS 570 Support Link: <a href="#">CS 470</a>	3	ADVANCED INTELLIGENT SYSTEMS	Fall 2018	Co-convene, New Course
5. <a href="#">CS 530</a> CS 530 Support: <a href="#">FAST TRACK CS 430</a>	3	ADVANCED COMPUTER GRAPHICS	Fall 2018	Co-convene, New Course
6. <a href="#">EE 402</a> EE 402 Support Link: <a href="#">EE 502</a>	3	WIND POWER CONVERSION	Fall 2018	Co-convene, New Course
7. <a href="#">EE 403</a> EE 403 Support Link: <a href="#">EE 503</a>	3	ELECTRIC DRIVES	Fall 2018	Co-convene, New Course
8. <a href="#">EE 436</a> EE 436 Support Link: <a href="#">EE 536</a>	3	COMMUNICATIONS AND WIRELESS SENSING	Fall 2018	Co-convene, New Course
9. <a href="#">EE 502</a> EE 502 Support Link: <a href="#">EE 402</a>	3	ADVANCED WIND POWER CONVERSION	Fall 2018	Co-convene, New Course
10. <a href="#">EE 503</a> EE 503 Support Link: <a href="#">EE 403</a>	3	ADVANCED ELECTRIC DRIVES	Fall 2018	Co-convene, New Course
11. <a href="#">EE 536</a> EE 536 Support Link: <a href="#">EE 436</a>	3	ADVANCED COMMUNICATIONS AND WIRELESS SENSING	Fall 2018	Co-convene, New Course
12. <a href="#">INF 511</a> INF 511	3	MODERN REGRESSION I	Fall 2018	New Course

13.	<a href="#">INF 512</a> INF 512	3	MODERN REGRESSION II	Fall 2018	New Course
14.	<a href="#">INF 529</a> INF 529	3	APPLIED REMOTE SENSING	Fall 2018	Cross-list, New Course
15.	<a href="#">INF 626</a> INF 626	3	APPLIED BAYESIAN MODELING	Fall 2018	New Course
16.	<a href="#">INF 626L</a> INF 626L	1	APPLIED BAYESIAN MODELING LAB	Fall 2018	New Course
17.	<a href="#">INF 638</a> INF 638	3	CRYPTOGRAPHY AND PUBLIC KEY INFRASTRUCTURE	Fall 2018	New Course
18.	<a href="#">INF 639</a> INF 639	3	NANOMATERIALS AND NONELECTRONICS FOR CYBERSECURITY	Fall 2018	New Course
19.	<a href="#">Informatics and Computing; Ph.D.</a> Informatics and Computing; Ph.D. Cyber and Software Systems Emphasis Ecological and Environmental Informatics Emphasis <a href="#">Informatics and Computing; Ph.D. Curriculum Map</a>			Fall 2018	Major Reqmts-Course(s) Added, Major Reqmts-Course(s) Deleted, Subplan Reqmts-Course(s) Added, Subplan Reqmts-Course(s) Deleted
20.	<a href="#">Informatics; M.S.</a> Informatics; M.S. <a href="#">Informatics; M.S. Curriculum Map</a>			Fall 2018	New Plan
21.	<a href="#">Data Science GCRT</a> Data Science GCRT			Fall 2018	New Plan
22.	<a href="#">Computer Engineering; B.S.</a> Computer Engineering; B.S. <a href="#">Computer Engineering; B.S. Curriculum Map</a> Support: <a href="#">Computer Engineering; B.S. Support</a>			Fall 2018	Name Change, New Plan
23.	<a href="#">Computer Science M.S.</a> Computer Science; M.S. <a href="#">Computer Science; M.S. Curriculum Map</a> Support: <a href="#">Computer Science; M.S. Support</a>			Fall 2018	Name Change, New Plan
24.	<a href="#">Electrical Engineering; B.S.</a> Electrical Engineering; B.S. <a href="#">Electrical Engineering; B.S. Curriculum Map</a> Support: <a href="#">Electrical Engineering; B.S. Support</a>			Fall 2018	Name Change, New Plan
25.	<a href="#">Electrical Engineering; M.S.</a> Electrical Engineering; M.S. <a href="#">Electrical Engineering; M.S. Curriculum Map</a> Support: <a href="#">Electrical Engineering; M.S. Support</a>			Fall 2018	Name Change, New Plan
26.	<a href="#">Applied Computer Sciences; B.S.</a> Applied Computer Sciences; B.S. <a href="#">Applied Computer Sciences; B.S. Curriculum Map</a>			Fall 2019	Major Reqmts-Course(s) Added, Major Reqmts-Course(s) Deleted, Major Reqmts-Unit Change, Text within Plan

## **SESES**

27.	<a href="#">ENV 425</a> ENV 425	3	WATER RESOURCES POLICY	Fall 2019	Co-convene, New Course
	Support: <a href="#">ENV 525</a>				
28.	<a href="#">ENV 525</a> ENV 525	3	WATER RESOURCES POLICY	Fall 2019	Co-convene, New Course
	Support: <a href="#">ENV 425</a>				

29. <a href="#">Environmental Sciences; B.S.</a> Environmental Sciences; B.S. Administration and Policy Emphasis Applied Geology Emphasis Applied Mathematics Emphasis Biology Emphasis Environmental Communication Emphasis Environmental Management Emphasis <a href="#">Environmental Sciences; B.S. Curriculum Map</a>	Fall 2019	Major Reqmts-Course(s) Added, Major Reqmts-Unit Change, Name Change, Subplan Reqmts-Course(s) Added, Subplan Reqmts-Course(s)
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### **FORESTRY**

30. <a href="#">FOR 561</a> FOR 561 1 DATA METAPHORS AND VISUALIZATION	Fall 2019	Cross-list, New Course
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### **CECMEE**

31. <a href="#">Civil Engineering; B.S.</a> Civil Engineering; B.S. <a href="#">Civil Engineering; B.S. Curriculum Map</a> Support: <a href="#">Civil Engineering; B.S. Support</a>	Fall 2018	Name Change, New Plan
32. <a href="#">Civil Engineering; M.S.</a> Civil Engineering; M.S. <a href="#">Civil Engineering; M.S. Curriculum Map</a> Support <a href="#">Civil Engineering; M.S. Support</a>	Fall 2018	Name Change, New Plan
33. <a href="#">Environmental Engineering; B.S.</a> Environmental Engineering; B.S. <a href="#">Environmental Engineering; B.S. Curriculum Map</a> Support: <a href="#">Environmental Engineering; B.S. Support</a>	Fall 2018	Name Change, New Plan
34. <a href="#">Environmental Engineering; M.S.</a> Environmental Engineering; M.S. <a href="#">Environmental Engineering; M.S. Curriculum Map</a> Support: <a href="#">Environmental Engineering; M.S. Support</a>	Fall 2018	Name Change, New Plan

### **MECHANICAL ENGINEERING**

35. <a href="#">Mechanical Engineering; B.S.</a> Mechanical Engineering; B.S. Mechanical Engineering; B.S. Curriculum Map Support: <a href="#">Mechanical Engineering; B.S. Support</a>	Fall 2018	Name Change, New Plan
36. <a href="#">Mechanical Engineering; M.S.</a> Mechanical Engineering; M.S. <a href="#">Mechanical Engineering; M.S. Curriculum Map</a> Support: <a href="#">Mechanical Engineering; M.S. Support</a>	Fall 2018	Name Change, New Plan

## **III. Consent Items**

	<u>Effective Date</u>	<u>Summary of Changes</u>
1. <a href="#">Biology-Secondary Education; B.S.Ed.</a> Biology-Secondary Education; B.S.Ed. <a href="#">Biology-Secondary Education; B.S.Ed. Curriculum Map</a> Support: <a href="#">ESE 330</a>	Fall 2018	Major Reqmts-Course(s) Added, Major Reqmts-Course(s) Deleted

2. <a href="#">Chemistry-Secondary Education; B.S.Ed.</a> Chemistry-Secondary Education; B.S.Ed. Chemistry-Secondary Education; B.S.Ed. Curriculum Map Support: <a href="#">ESE 330</a>	Fall 2018	Major Reqmts-Course(s) Added, Major Reqmts-Course(s) Deleted
3. <a href="#">Earth Science-Secondary Education; B.S.Ed.</a> Earth Science-Secondary Education; B.S.Ed. Earth Science-Secondary Education; B.S.Ed. Curriculum Map Support: <a href="#">ESE 330</a>	Fall 2018	Major Reqmts-Course(s) Added, Major Reqmts-Course(s) Deleted
4. <a href="#">General Science-Secondary Education; B.S.Ed.</a> General Science-Secondary Education; B.S.Ed. General Science-Secondary Education; B.S.Ed. Curriculum Map Support: <a href="#">ESE 330</a>	Fall 2018	Major Reqmts-Course(s) Added, Major Reqmts-Course(s) Deleted
5. <a href="#">Mathematics-Secondary Education; B.S.Ed.</a> Mathematics-Secondary Education; B.S.Ed. <a href="#">Mathematics-Secondary Education; B.S.Ed. Curriculum Map</a> Support: <a href="#">ESE 330</a>	Fall 2018	Major Reqmts-Course(s) Added, Major Reqmts-Unit Change
6. <a href="#">Physics-Secondary Education; B.S.Ed.</a> Physics-Secondary Education; B.S.Ed. Physics-Secondary Education; B.S.Ed. Curriculum Map Support: <a href="#">ESE 330</a>	Fall 2018	Major Reqmts-Course(s) Added, Major Reqmts-Course(s) Deleted

## IV. Fast Track Agenda

			<u>Effective Date</u>	<u>Summary of Changes</u>
1. <a href="#">BIO 181</a> BIO 181	3	UNITY OF LIFE I: LIFE OF THE CELL	Spring 2018	Catalog Descr
2. <a href="#">BIO 181H</a> BIO 181H	3	UNITY OF LIFE I: LIFE OF THE CELL – HONORS	Spring 2018	Catalog Descr
3. <a href="#">BIO 182</a> BIO 182	3	UNITY OF LIFE II: LIVES OF MULTICELLULAR ORGANISMS	Fall 2018	Add LibStud
4. <a href="#">BIO 182H</a> BIO 182H	3	UNITY OF LIFE II: LIVES OF MULTICELLULAR ORGANISMS - HONORS	Fall 2018	Add LibStud
5. <a href="#">BIO 182L</a> BIO 182L	1	UNITY OF LIFE II LABORATORY	Fall 2018	Add LibStud
6. <a href="#">BIO 215</a> BIO 215	4	ENVIRONMENTAL SCIENCE FOR HOTEL/RESTAURANT MANAGERS	Fall 2019	Add LibStud
7. <a href="#">BIO 326L</a> BIO 326L	1	ECOLOGY LAB	Fall 2019	Catalog Descr, Coreqs, Prereqs
8. <a href="#">BIO 326LH</a> BIO 326LH	1	ECOLOGY LAB - HONORS	Fall 2019	Catalog Descr, Coreqs, Prereqs
9. <a href="#">BIO 360</a> BIO 360	3	BIOMECHANICS	Fall 2019	Catalog Descr, Number
10. <a href="#">BIO 401C</a> BIO 401C	4	IMMUNOBIOLOGY	Fall 2019	Prereqs
11. <a href="#">BIO 401CH</a> BIO 401CH	4	IMMUNOBIOLOGY - HONORS	Fall 2019	Prereqs
12. <a href="#">BIO 425C</a> BIO 425C	3	ANIMAL PHYSIOLOGY	Fall 2019	Number, Remove LibStud

13.	<a href="#">BIO 425CH</a> BIO 425CH	3	ANIMAL PHYSIOLOGY - HONORS	Fall 2019	Number, Remove LibStud
14.	<a href="#">BIO 425L</a> BIO 425L	1	ANIMAL PHYSIOLOGY LAB	Fall 2019	Catalog Descr, Number
15.	<a href="#">BIO 425LH</a> BIO 425LH	1	ANIMAL PHYSIOLOGY LAB - HONORS	Fall 2019	Catalog Descr, Number
16.	<a href="#">BIO 465C</a> BIO 465C	3	ADVANCED CLINICAL EXERCISE SCIENCE	Fall 2019	Course Title
17.	<a href="#">BIO 542</a> BIO 542	3	BIOMECHANICS	Fall 2019	Catalog Descr
18.	<a href="#">BIO 565</a> BIO 565	3	ADVANCED CLINICAL EXERCISE PHYSIOLOGY	Fall 2019	Course Title
19.	<a href="#">BIO 570</a> BIO 570	3	PLANT ECOLOGY	Fall 2019	Catalog Descr
20.	<a href="#">CM 130</a> CM 130	3	COMPUTING IN CONSTRUCTION	Fall 2019	Catalog Descr
21.	<a href="#">CS 430</a> CS 430 Support Link: <a href="#">CS 530</a>	3	COMPUTER GRAPHICS	Fall 2018	Catalog Descr, Co-convene, Prereqs
22.	<a href="#">CS 430H</a> CS 430H Support Link: <a href="#">CS 530</a>	3	COMPUTER GRAPHICS - HONORS	Fall 2018	Catalog Descr, Co-convene, Prereqs
23.	<a href="#">CS 476</a> CS 476	2	REQUIREMENTS ENGINEERING	Fall 2019	Catalog Descr, Coreqs, Other, Prereqs
24.	<a href="#">CS 486C</a> CS 486C	4	CAPSTONE EXPERIENCE	Fall 2019	Catalog Descr, Other, Prereqs
25.	<a href="#">EE 386W</a> EE 386W	3	ENGINEERING DESIGN: THE METHODS	Fall 2019	Prereqs
26.	<a href="#">EE 486C</a> EE 486C	3	CAPSTONE DESIGN	Fall 2019	Catalog Descr, Other
27.	<a href="#">INF 504</a> INF 504	3	DATA MINING AND MACHINE LEARNING	Fall 2018	Prereqs
28.	<a href="#">ENV 230</a> ENV 230	4	FOUNDATIONS OF ENVIRONMENTAL SCIENCE: HUMANS AND THE ENVIRONMENT	Fall 2019	Coreqs, Prereqs
29.	<a href="#">ENV 250</a> ENV 250	4	ENVIRONMENTAL CONSERVATION ON THE COLORADO PLATEAU	Fall 2019	Catalog Descr
30.	<a href="#">ENV 250H</a> ENV 250H	4	ENVIRONMENTAL CONSERVATION ON THE COLORADO PLATEAU - HONORS	Fall 2019	Catalog Descr
31.	<a href="#">ENV 324</a> ENV 324	3	SUSTAINABLE ECOLOGY	Fall 2019	Prereqs
32.	<a href="#">ENV 326</a> ENV 326	3	ESSENTIAL ECOLOGY	Fall 2019	Prereqs
33.	<a href="#">ENV 326H</a> ENV 326H	3	ESSENTIAL ECOLOGY – HONORS	Fall 2019	Prereqs
34.	<a href="#">ENV 596</a> ENV 596	3	QUATERNARY CLIMATE CHANGE	Fall 2019	Catalog Descr, Cross-list, Reactivate Course
35.	<a href="#">EES 529</a> EES 529	3	APPLIED REMOTE SENSING	Fall 2018	Catalog Descr, Cross-list

36.	<a href="#">GLG 596</a> GLG	596	3	QUATERNARY CLIMATE CHANGE	Fall 2019	Prereqs, Reactivate Course
37.	<a href="#">FOR 213</a> FOR	213	4	ECOLOGY AND MANAGEMENT OF FOREST SOILS	Fall 2019	Coreqs, Prereqs
38.	<a href="#">FOR 351</a> FOR	351	3	FIRE MONITORING AND MODELING FOR PROFESSIONALS	Fall 2019	Prereqs
39.	<a href="#">FOR 694</a> FOR	694	1-4	SUPERVISED TEACHING IN FORESTRY	Spring 2017	Reactivate Course
40.	<a href="#">MAT 125</a> MAT	125	4	PRECALCULUS MATHEMATICS	Fall 2019	Catalog Descr
41.	<a href="#">MAT 220</a> MAT	220	3	INTRODUCTION TO MATHEMATICAL REASONING	Fall 2019	Number
42.	<a href="#">MAT 226</a> MAT	226	3	DISCRETE MATHEMATICS	Fall 2019	Prereqs
43.	<a href="#">MAT 285</a> MAT	285	3	FUNCTIONS, APPLICATIONS, AND EXPLORATIONS	Fall 2019	Catalog Descr, Course Title
44.	<a href="#">MAT 511</a> MAT	511	3	ABSTRACT ALGEBRA I	Fall 2019	Prereqs
45.	<a href="#">MAT 516</a> MAT	516	3	LINEAR ALGEBRA	Fall 2019	Prereqs
46.	<a href="#">MAT 526</a> MAT	526	3	TOPICS IN COMBINATORICS	Fall 2019	Prereqs
47.	<a href="#">MAT 531</a> MAT	531	3	REAL ANALYSIS	Fall 2019	Prereqs
48.	<a href="#">MAT 535</a> MAT	535	3	COMPLEX ANALYSIS	Fall 2019	Prereqs
49.	<a href="#">ME 365</a> ME	365	3	MACHINE DESIGN I	Fall 2017	Prereqs
50.	<a href="#">ME 392</a> ME	392	3	THERMODYNAMICS II	Fall 2017	Prereqs
51.	<a href="#">ME 395</a> ME	395	3	FLUID MECHANICS I	Fall 2017	Prereqs
52.	<a href="#">ME 423</a> ME	423	3	AERO-SYSTEMS DYNAMICS	Fall 2017	Prereqs
53.	<a href="#">ME 425</a> ME	425	3	APPLIED COMPUTATIONAL FLUID DYNAMICS	Fall 2017	Prereqs
54.	<a href="#">ME 435</a> ME	435	3	WIND ENERGY ENGINEERING	Fall 2017	Prereqs
55.	<a href="#">ME 435H</a> ME	435H	3	WIND ENERGY ENGINEERING - HONORS	Fall 2017	Prereqs
56.	<a href="#">ME 440</a> ME	440	3	FLUID MECHANICS II	Fall 2019	Catalog Descr
57.	<a href="#">ME 440</a> ME	440	3	FLUID MECHANICS II	Fall 2017	Prereqs
58.	<a href="#">ME 441</a> ME	441	3	COMPRESSIBLE FLOW	Fall 2017	Prereqs

59.	<a href="#">ME 442</a> ME	442	3 AERODYNAMICS	Fall 2017	Prereqs
60.	<a href="#">ME 450</a> ME	450	3 HEAT TRANSFER	Fall 2017	Prereqs
61.	<a href="#">ME 451</a> ME	451	3 RENEWABLE ENERGY	Fall 2017	Prereqs
62.	<a href="#">ME 451</a> ME	451	3 RENEWABLE ENERGY	Fall 2019	Coreqs, Prereqs
63.	<a href="#">ME 454</a> ME	454	3 FINITE ELEMENT ANALYSIS	Fall 2017	Prereqs
64.	<a href="#">ME 455</a> ME	455	3 VIBRATIONS	Fall 2017	Prereqs
65.	<a href="#">ME 456</a> ME	456	3 ENGINEERING MODELING OF NONLINEAR SYSTEMS	Fall 2017	Prereqs
66.	<a href="#">ME 463</a> ME	463	3 BIOMECHANICAL ENGINEERING	Fall 2017	Prereqs
67.	<a href="#">ME 465</a> ME	465	3 MACHINE DESIGN II	Fall 2017	Prereqs
68.	<a href="#">ME 467</a> ME	467	3 MANUFACTURING PROCESSES	Fall 2017	Prereqs
69.	<a href="#">ME 473</a> ME	473	3 BIOMATERIALS	Fall 2017	Prereqs
70.	<a href="#">ME 475</a> ME	475	3 ADAPTIVE MATERIALS AND SYSTEMS	Fall 2017	Prereqs
71.	<a href="#">ME 476C</a> ME	476C	1 MECHANICAL ENGINEERING DESIGN I	Fall 2017	Prereqs
72.	<a href="#">ME 482</a> ME	482	3 ADVANCED CAD/CAM	Fall 2017	Prereqs
73.	<a href="#">ME 484</a> ME	484	3 KINEMATICS	Fall 2017	Prereqs
74.	<a href="#">ME 486C</a> ME	486C	3 MECHANICAL ENGINEERING DESIGN II	Fall 2017	Prereqs
75.	<a href="#">ME 495</a> ME	495	3 EXPERIMENTAL METHODS IN THE THERMAL SCIENCES	Fall 2017	Prereqs
76.	<a href="#">Biology; B.S.</a> Biology; B.S.			Fall 2019	Major Reqmts-Course(s) Deleted
77.	<a href="#">Computer Science; B.S.C.S.</a> Computer Science; B.S.C.S.			Fall 2019	Text within Plan
78.	<a href="#">Computer Sciences Minor</a> Computer Sciences Minor			Fall 2019	Major Reqmts-Course(s) Deleted, Text within Plan
79.	<a href="#">Construction Management; B.S.</a> Construction Management; B.S.			Fall 2017	Text within Plan
80.	<a href="#">Environmental Sciences and Policy; M.S.</a> Environmental Sciences and Policy; M.S.			Fall 2017	Major Reqmts-Course(s) Added, Major Reqmts-Course(s) Deleted
81.	<a href="#">Environmental Sciences and Policy; M.S.</a> Environmental Sciences and Policy; M.S.			Fall 2019	Admission Requirements

82. <a href="#">Geology: M.S.</a> Geology; M.S.	Fall 2019	Admission Requirements
83. <a href="#">Teaching Science with Certification: M.A.T.</a> Teaching Science with Certification; M.A.T. Support: <a href="#">BME 631</a>	Fall 2018	Major Reqmts-Course(s) Added, Major Reqmts-Course(s) Deleted
84. <a href="#">Applied Statistics GCRT</a> Applied Statistics GCRT	Fall 2019	Certificate Reqmts-Course(s) Added
85. <a href="#">Teaching Introductory Community College Mathematics GCRT</a> Teaching Introductory Community College Mathematics GCRT	Fall 2019	Text within Plan
86. <a href="#">Environmental Sustainability Minor</a> Environmental Sustainability Minor	Fall 2019	Minor Reqmts-Course(s) Added