

**University Curriculum Committee
October 31, 2019 Meeting Minutes**

The University Curriculum Committee met on **Thursday, October 31** at 3:00 p.m. in the Deans' Conference Room, Derryberry 200.

Members Present:

Melinda Anderson	Julie Baker	Doug Bates	Jeff Boles
Chris Brown	Brittany Copley	Pedro Arce	Dennis Duncan
Edith Duvier	Julie Galloway	Jerry Gannod	Mike Gotcher
Rita Barnes	Brandi Hill	Sharon Huo	Brandon Johnson
Thomas Payne	Mohan Rao	Wendy Mullen	Joseph Slater
Jeff Roberts	Stephen Robinson	Paul Semmes	Martin Sheehan
Barry Stein	Mark Stephens	Evan Hart	Thomas Timmerman
Jeremy Wendt, Chair	Darron Smith	Brenda Wilson	Kim Winkle
Lisa Zagumny	Linda Null	Robert Hill, Student	

Members Absent:

Christy Killman	Lori Bruce	Chris Wilson	Janet Whiteaker
Ahmed Elsayy	Steve Frye	Lori Maxwell	Adam Grim
Steve Isbell	Allan Mills	Jennifer Shank	Richard Rand
Wesley Pech	Emma Kenner, Student	Alexis Harvey, Student	Courtney Fowler, Student

Official Representative(s):

Barbara Jared FOR	Kim Hanna	Tammy Boles FOR	Hayden Mattingly
Craig Henderson FOR	Ben Mohr	Charles Carnal FOR	Allen Mackenzie
Jim Baier FOR	Bruce Greene		

Guest(s):

Cari Williams	Mary McCaskey	Scott Christen	
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Outline of Proceedings:

1.	Approval of Agenda	8.	English
2.	Approval of September 26, 2019 Minutes	9.	History
3.	Curriculum & Instruction	10.	Agriculture & Human Ecology
4.	Accounting	11.	Chemical Engineering
5.	Decision Sciences and Management	12.	Electrical & Computer Engineering
6.	Art, Craft & Design	13.	Environmental Studies
7.	Communication	14.	Informational Items

Proceedings:

Perceiving a quorum, Dr. Wendt called the meeting to order at 3:01pm.

1. Approval of agenda

Motion to approve. Lisa Zagumny

Second. Darron Smith

Vote. Motion carried.

2. Approval of minutes, September 26, 2019

Motion to approve. Jeremy Wendt

Second. Lisa Zagumny

Vote. Motion carried.

3. Curriculum & Instruction

A. Course Changes.

CUED 4750 (5750). Service Learning Informal STEM Education

See attached Course Checklist for Curriculum Committee-changing number of credit hours course can be repeated from **6 credit hours to 12 credit hours for CUED 4750 and from 6 credit hours to 9 credit hours for CUED 5750.**

B. Course Additions.

1) **SVCL 4150 (5150). Topics Lec. 0-9. Credit 0-9.**

This course will coordinate and supervise service learning opportunities for students. The specific service learning activity will be designated in the title at each offering. The number of hours of credit will be based on the magnitude of the topic and the clock hours of face-to-face service learning effort. Course objectives and grading guidelines will be established by the faculty at the time each course is offered. Students in the 5000-level course will be required to complete additional coursework as stated in the syllabus.

Note: SVCL 4150 can be repeated up to 12 credit hours and SVCL 5150 can be repeated up to 9 credit hours

Course Attributes: Education SACF; WSL1

Effective date: Spring 2020 for Banner; Fall 2020 for Catalog

2) **SVCL 4920 (5920). Service Learning in Your Community Lec. 0-3. Credit 0-3.**

This course provides students with the opportunity to use their professional skills to better their community through service learning. This course may be repeated for credit. Students in the 5000-level course will be required to complete additional work as stated in the syllabus.

Note: SVCL 4920 can be repeated up to 12 credit hours and SVCL 5920 can be repeated up to 9 credit hours

Course Attributes: Education SACF; WSL1

Effective date: Spring 2020 for Banner; Fall 2020 for Catalog

Motion to approve. Julie Baker

Second. Barry Stein

Vote. Motion carried.

4. Accounting & Business Law

A. Course Description Change.

From:

ACCT 4700 (5700) International Experiences in Accounting, Lec. 3. Credit 3.

Prerequisite: Consent of instructor and Department Chairperson. A short-term study abroad program highlighting selected historical and modern contributions to accounting and business from another country and culture. Course will also meet weekly during the semester. Enrollment in junior or senior level accounting courses requires junior standing. All business majors must have completed the Basic Business Program. Accounting majors must earn a grade of C or better to graduate. Students may not receive credit for both the 4000-level and the 5000-level of the same class.

To:

ACCT 4700 (5700) International Experiences in Accounting, Lec. 3. Credit 3.

Prerequisite: Consent of instructor or Department Chairperson. A short-term, faculty-led study abroad program highlighting selected historical and modern contributions to accounting and business from another country and culture. Course will meet weekly during the semester in addition to the travel period. Students may not receive credit for both the 4000-level and the 5000-level of the same class.

Motion to approve. Julie Galloway

Second. Julie Baker

Vote. Motion carried.

5. Decision Sciences and Management

A. Elective Changes.

- 1) General Management Concentration are required to take 3 hours of DS Electives in addition to 12 other hours of DS classes (DS2810, DS3520, DS3620, DS3841). There are a limited number of DS electives appropriate for General Management students, so DSM would like to remove this requirement and allow students to take any Business Elective. As a result of this change, General Management students will be allowed to take 6 hours of Business Electives instead of 3 hours.
- 2) Remove "DS Elective (3 hours)"
- 3) Add "BMGT or DS Elective (3 hours)*" instead

Motion to approve. Thomas Timmerman

Second. Julie Galloway

Vote. Motion carried.

6. Art, Craft & Design

A. Curriculum and Catalog Changes.

- 1) Add the following course to the list of guided electives in the Design Concentration: COM 1020: Basic Web Graphics, TN e-campus online 3, Credit 3.
Effective date: Fall 2020
- 2) Remove the following courses from the list of guided electives for the BFA Design, Digital Media Concentration: WEBD 1500: Introduction to Web Design, WEBD 2300: Website Design, Dynamic Sites, WEBD 4950: Advanced Webpage Design.
Effective date: Fall 2020

Motion to approve. Kim Winkle

Second. Lisa Zagumny

Vote. Motion carried

B. Curriculum and Catalog Changes.

- 1) Add the following course to the list of guided electives for the following concentrations: Glass, Metals, Clay, Fibers, Wood and Painting
MKT 3200: Entrepreneurial Mindset, Lec.3, Credit. 3. This introductory course provides a framework of entrepreneurial thinking and acting.
Effective date: Fall 2020
- 2) Remove the following course from the list of guided electives for the following concentrations: Glass, Metals, Clay, Fibers, Wood and Painting
WEBD 1500: Introduction to Web Design
Effective date: Fall 2020

Motion to approve. Kim Winkle

Second. Wendy Mullen

Vote. Motion carried

7. Communication

A. Change of Course Listing.

- 1) **From:**
COMM 3030 Principles of Event Planning

To:
COMM/**JOUR** 3030 Principles of Event Planning

2) **Change of Course Prerequisite**

From:

JOUR 3460 Introduction to Public Relations
Prerequisite: JOUR 2200.

To:

JOUR 3460 Introduction to Public Relations
Prerequisite: JOUR 2200 or consent of the instructor.

3) **Course Deletion**

COMM 4030/5030 Event Management and Promotion, Lec. 3. Credit 3.

4) **Course Additions**

a) **COMM/JOUR 3040 Event Planning and Risk Management**, Lec. 3. Credit 3.
Prerequisite: COMM/JOUR 3030 or consent of instructor.

This course is designed to develop students' understanding of risk management within event planning by identifying and analyzing potential risks, appropriate responses to them and strategies to manage them.

b) **JOUR 4030/5030 Field Experience in Event Management and Promotion**, Lec. 3. Credit 3.

Prerequisite: COMM/JOUR 3030 and COMM/JOUR 3040 or consent of instructor. This course will provide students with the opportunity to implement skills learned to manage and promote an actual event, either in pairs or small groups.

5) **Addition of Minor**

A minor in event planning, promotion and management will consist of the following courses:

- COMM/JOUR 3030 Principles of Event Planning, Credit: 3.
- COMM/JOUR 3040 Event Planning and Risk Management, Credit: 3.
- JOUR 4030/5030 Field Experience in Event Management and Promotion, Credit: 3

And 9 hours of these courses:

- COMM 2090 Interpersonal Communication or COMM 3620 Intercultural Communication, Credit: 3.
- COMM 3080 Communication and Effective Teamwork, Credit: 3.
- JOUR 3460 Introduction to Public Relations, Credit: 3.
- ACCT 2120 Principles of Accounting II or ACCT 3720 Survey of Accounting, Credit: 3.
- HEC 3350 Merchandising I, Credit: 3.
- HEC 4242 Food Systems Administration, Credit: 3.

Note: Substitutions must be approved by the chair of the Communication Department.

Motion to approve. Brenda Wilson

Second. Julie Baker

Vote. Motion carried

B. Course Name Change

1) **From:**

COMM 1020: Foundations of Communication

To:

COMM 1020: Survey of Communication Studies

2) **Course Prefix Changes**

From:

COMM 4850 Internship. Credit 3.

COMM 4851 Internship. Credit 6.

To:

COMM 4853 Internship. Credit 3.

COMM 4856 Internship. Credit 6.

3) **Corrections and Updates**

a) Correct footnote numbers section of Communication, Communication Studies Concentration, B.S.

From:

Junior Year

Communication Application Elective Credit: 3.²

Communication Theory Elective Credit: 6.³

Total: 30

To:

Junior Year

Communication Application Elective Credit: 3.⁴

Communication Theory Elective Credit: 6.³

Total: 30

b) **Changes to the Communication Application Electives**

From:

4. Students may choose from the following: COMM 2000, COMM 2800, COMM 3030, COMM 3130, COMM 3400, COMM 4540, COMM 4550, COMM 4603, COMM 4850, COMM 4900.

To:

4. **Application Electives.** Students may choose from the following: **COMM 2000**, COMM 2800, COMM 3030, **COMM 3080**, COMM 3130, COMM 3400, COMM 4540, COMM 4550, **COMM 4601, COMM 4602**, COMM 4603, ~~COMM 4850~~ **COMM 4853, COMM 4856**, COMM 4900, **COMM 4901**.

c) Justification:

Add COMM4601, COMM 4602, COMM 4853, COMM 4856, and COMM 4901 to the Application Electives list.

1. COMM 4601, 4602, and 4603 are special topics classes. COMM 4603 is already included in the Application Electives. Adding COMM 4601 and 4602 will include all special topics classes.
2. COMM 4853 and 4856 are internship classes. COMM 4853 (previously 4850) is already included the Application Electives. Adding COMM 4856, Credit 6, would include all internship classes.
3. COMM 4901 Independent Study was omitted because of a typo.
4. Adding title to footnote clarifies the type of electives listed.

Add COMM 3080 Communication and Effective Teamwork to Application Electives. The course was originally listed incorrectly under Theory Electives.

Remove COMM 2000 Organizational Communication from the Application Electives. Number designation was changed to COMM 2075 and is a required course, not an Application Elective

4) Changes to the Communication Theory Electives

a) From:

Students may choose from the following: COMM 3000, COMM 3080, COMM 3120, COMM 4030, COMM 4410, COMM 4430, COMM 4440, COMM 4603, COMM 4900.

To:

Theory Electives. Students may choose from the following: COMM 3000, ~~COMM 3080~~, COMM 3120, COMM 4030, ~~COMM 4410, COMM 4420~~, COMM 4430, COMM 4440, **COMM 4601, COMM 4602**, COMM 4603, COMM 4900, **COMM 4901**.

b) Justification:

Add COMM 4601, COMM 4602, and COMM 4901 to Communication Theory Electives list.

- i. COMM 4601, 4602, and 4603 are special topics classes. COMM 4603 is already included in the Theory Electives. Adding COMM 4601 and 4602 will include all special topics classes.

Remove COMM 3080 Communication and Effective Teamwork from Theory Electives. Originally listed here incorrectly.

Remove COMM 4410 from Theory Electives. This course number was listed incorrectly when electives were established. Now COMM 4410 is a TN eCampus class and should not be part of this list.

Add COMM 4420 Advanced Organizational Communication to Theory Elective correcting the above error.

Adding title to footnote clarifies the type of electives listed

Motion to approve. Brenda Wilson

Second. Lisa Zagumny

Vote. Motion carried

8. English

A. **Course Additions.**

- 1) Add the following course to the list of ENGL electives within the Department of English's B.A.

Note: This course would also be included in the list of Creative Writing-related courses following the heading "Students in the Creative Writing Concentration take ENGL 3400 plus 12 hours from the following courses...."

ENGL 4460 – Literary Magazine Editing & The Iris Review
Lec. 3. Credit 3.

Prerequisite: Grade of C or better in ENGL 3400 or prior consent of the instructor. Creation of a literary magazine annual edition from initial call for submissions through publication. Course may be repeated once provided the content is different.

- 2) **Curriculum Change**

Change requirements in Creative Writing concentration so that ENGL 4460 is on the list of course options through which students can fulfill concentration requirements.

From:

Students in the Creative Writing Concentration take ENGL 3400 plus 12 hours from the following courses ENGL 4430, ENGL 4440, ENGL 4450, and ENGL 4620 (5620). (ENGL 4430, ENGL 4440, and ENGL 4450 may be repeated for credit provided the content is different each time.)

To:

Students in the Creative Writing Concentration take ENGL 3400 plus 12 hours from the following courses: ENGL 4430, ENGL 4440, ENGL 4450, ENGL 4460, and ENGL 4620 (5620). (ENGL 4430, ENGL 4440, and ENGL 4450 may be repeated for credit provided the content is different each time. ENGL 4460 may be repeated once provided the content is different.)

Effective: Spring 2020

Motion to approve. Linda Null

Second. Barry Stein

Vote. Motion carried

B. Course Title Change

From:

THEA 2155—Voice and Diction. Spring (O). Lec. 3. Credit 3.

Lecture, interactive course covering basic elements of voice production and articulation.

(O) and (E) Denote Odd and Even Years Respectively.

To:

THEA 2155—Voice and Diction for Actors and Non-Actors. Lec. 3. Credit 3.

Lecture, interactive course covering basic elements of voice production and articulation.

Motion to approve. Linda Null

Second. Julie Baker

Vote. Motion carried

9. History

A. Addition of New Course.

HIST 3720 Survey of Mexican History

Catalog Description: A survey of historical developments of Mexico. Lec. 3
Credit 3.

Justification: This course has been taught regularly as part of the HIST 4790-4799 Latin American Studies course range. After review of our upper-division course offerings, the Department and particularly Dr. Susan Laningham, who teaches this Mexican history course, have determined that the course is more appropriate for the 3000-level designation, rather than the 4000-level. Additionally, campus resources provide better support for a 3000-level course rather than the current 4000-level. The primary difference is that 4000-level history courses require a paper of substantial length, while 3000-level courses may opt for other types of activities and requirements. The 3000-level course does not lessen the general rigor that the History Department brings to all of its courses.

Motion to approve. Jeff Roberts

Second. Martin Sheehan

Vote. Motion carried

10. Agriculture and Human Ecology

A. Course changes.

Increase in Lab Hours with a Reduction in Lecture Hours

From:

AGRN 3300 - Organic Farming. Credit Hours: 3

Lec. 2. Credit 2.

An examination of organic crop production methods including improving the structure of soil and fertility, pest management, irrigation, season extension, vegetable and fruit crop production, harvesting, post-harvest handling and marketing techniques.

Lab. 2. Credit 1.

Practical applications of organic crop production methods.

To:

AGRN 3300 - Organic Farming. Credit Hours: 3

Lec. 1. Credit 1.

An examination of organic crop production methods including improving the structure of soil and fertility, pest management, irrigation, season extension, vegetable and fruit crop production, harvesting, post-harvest handling and marketing techniques.

Lab. 4. Credit 2.

Practical applications of organic crop production methods.

Motion to approve. Jim Baier

Second. Lisa Zagumny

Vote. Motion carried

B. Curriculum changes.

Freshman Year (31 – 33 hrs.):

Fall: No changes 15-17 hrs.

Spring: Add AGET 1500 and remove the pick one math option. 16 hrs.

Sophomore Year (31hrs.):

Fall: Change select one from BIOL 1010, BIOL 1020, BIOL 1123, BIOL, 2310, PHYS 2010, PHYS 2020 to BIOL 1010, BIOL 1020, **BIOL 1113**, BIOL 1123, BIOL, 2310, PHYS 2010, PHYS 2020 16 hrs.

Spring: AGHE 2022 (2 hrs.) is moved from spring semester senior year to spring semester sophomore year, remove MET 2000 (1 hr) from the

curriculum, and, change select one from BIOL 1010, BIOL 1020, BIOL 1123, BIOL, 2310, PHYS 2010, PHYS 2020 to BIOL 1010, BIOL 1020, **BIOL 1113**, BIOL 1123, BIOL, 2310, PHYS 2010, PHYS 2020 ~~16 hrs.~~ to **15 hrs.**

Junior Year (30 hrs.):

Fall: Add AGET 3540 and remove the Upper Division Agriculture Elective **15 hrs.**
Spring: No changes **15 hrs.**

Senior Year (27 – 29 hrs.):

Fall: Removed AGET 4610 and added AGET 4620. Moved AGHE 3000 or AGHE 3200 or AGHE 3275 to fall semester senior year instead of spring semester senior year thus adding 3 hrs. ~~12 hrs.~~ to **15 hrs.**

Spring: Added AGET 4850 (3 hrs.) , moved AGHE 3000 or AGHE 3200 or AGHE 3275 to fall semester senior year, moved AGHE 2022 to spring semester sophomore year. and, changed select one from AGET 3510, AGET 3560, AGET 3565, ~~AGET 4620~~, AGET 4940, AGET 4950, AGET4960, AGET 4970, AGET 4980, AGET 4920, AGET3940, AGET 3950, AGET 3960 to select one from AGET 3510, AGET 3560, AGET 3565, **AGET 4510, AGET 4520, AGET 4540, ~~AGET 4620~~**, AGET 4940, AGET 4950, AGET4960, AGET 4970, AGET 4980, AGET 4920, AGET3940, AGET 3950, AGET 3960, and removed AGHE 4500 (1 hr.) thus requiring a 0 to 1 hour elective. **12 - 14 hrs.**

Motion to approve. Jim Baier

Second. Lisa Zagumny

Vote. Motion carried

11. Chemical Engineering

A. Course Additions.

1) **CHE 3735 ChE Operations**

Lec. 2 Credit 2

Prerequisites: Minimum grade of C in CHE 2015

Catalog Description: Decision-making techniques as applied to management of chemical processing plants.

Note: This course is currently being offered as CHE 3730 (Lec. 3 Credit 3). In a couple of years the course number ChE 3730 will be proposed for deletion during a later curriculum meeting.

Effective: Spring 2020

2) **CHE 4250 ChE Capstone Laboratory**

Lab. 4 Credit 2

Prerequisites: CHE 3010, CHE 3021, CHE 3735, CHE 3111, CHE 3121, CHE 4131 (5131), CHE 4410, CHE 4210 (5210), CHEM 3010, CHEM 3020

Catalog Description: Project serves as a culminating experience for the student. Project content varies depending on the interests of the student, project team, and project sponsors. Projects serve to integrate junior and senior level coursework, promote an understanding of professional communication and the development of project management skills. The overall goal of this course is to give the student experiential learning in experimental design as it applies to chemical production unit operations, and to provide reinforcement of the integration of theories learned in chemical engineering core courses towards practical assessment of unit operation including statistical analysis and interpretation.

Note: This course is currently being offered as CHE 4240 (Lab 3 Credit 1). In a couple of years the course number ChE 4240 will be proposed for deletion during a later curriculum meeting.

Effective: Spring 2020

Motion to approve. Pedro Arce

Second. Lisa Zagumny

Vote. Motion carried

12. Electrical and Computer Engineering

A. Course Changes.

1) From:

ECE 2011. Electrical Engineering Lab I. Lab. 3. Credit 1.

Prerequisite: C or better in CSC 1300, C or better in MATH 1920, C or better in MATH 2010, C or better in MATH 2120, and either C or better in ECE 2010 or C or better in ECE 2850 (ECE 2010, ECE 2850, and/or MATH 2120 may be taken concurrently). Introduction to electrical and electronic components, circuits, test equipment, and measurement techniques.

To:

ECE 2011. Electrical Engineering Lab I. Lab. 3. Credit 1.

Prerequisite: Either C or better in CSC 1300 or C or better in ENGR 2121; C or better in MATH 1920; C or better in MATH 2010; C or better in MATH 2120; and either C or better in ECE 2010 or C or better in ECE 2850 (ECE 2010, ECE 2850, and/or MATH 2120 may be taken concurrently). Introduction to electrical and electronic components, circuits, test equipment, and measurement techniques.

2) From:

ECE 2110. Introduction to Digital Systems. Lec. 3. Credit 3.

Prerequisite: C or better in CSC 1300. Basic concepts in the design and analysis of digital systems.

Number systems and codes. Combinational circuit analysis and design using Boolean algebra. Sequential logic circuit analysis and design.

To:

ECE 2110. Introduction to Digital Systems. Lec. 3. Credit 3.

Prerequisite: Either C or better in CSC 1300 or C or better in ENGR 2121. Basic concepts in the design and analysis of digital systems. Number systems and codes. Combinational circuit analysis and design using Boolean algebra. Sequential logic circuit analysis and design.

Motion to approve. Charles Carnal

Second. Julie Baker

Vote. Motion carried

13. Environmental Studies

A. Curriculum Changes.

1) **Environmental and Sustainability Studies, Environmental Concentration, Biology, B.S.**

Freshman Year

First Semester

~~BIOL 1010 - Introduction to Biology Credit: 4. or~~

BIOL 1113 - General Biology I Credit: 4.

CHEM 1010 - Introductory Chemistry I Credit: 4. or

CHEM 1110 - General Chemistry I Credit: 4.

ENGL 1010 - English Composition I Credit: 3.

ESS 1020 - Connections to Environmental and Sustainability Studies Credit: 1.

MATH 1130 - College Algebra Credit: 3. or

MATH 1830 - Applied Calculus Credit: 3. or

MATH 1910 - Calculus I Credit: 4.

Total: 15 – 16

Second Semester

~~BIOL 1020 - Diversity of Life Credit: 4.~~

~~CHEM 1020 - Introductory Chemistry II Credit: 4.~~

ENGL 1020 - English Composition II Credit: 3.

ESS 1100 - Introduction to Environmental Studies Credit: 3.

GEOL 1045 - Earth Environment, Resources and Society Credit: 4.

Electives Credit: 3.

Total: 13

Sophomore Year

First Semester

ENGL 2130 - Topics in American Literature Credit: 3. or

ENGL 2235 - Topics in British Literature Credit: 3. or

ENGL 2330 - Topics in World Literature Credit: 3.

HIST 2010 - Early United States History Credit: 3.

Humanities/Fine Arts Elective Credit: 3.

PHIL 1030 - Introduction to Philosophy Credit: 3.

SOC 1010 - Introduction to Sociology Credit: 3.

Total: 15

Second Semester

~~AGRN 2300 – Soils Credit: 3.~~

~~AGRN 2310 – Soil Chemical Properties Credit: 1.~~

ESS 3710 - Chemistry and the Environment Credit: 3.

BIOL 1123 - General Biology II Credit: 4.

COMM 2025 - Fundamentals of Communication Credit: 3. or

PC 2500 - Communicating in the Professions Credit: 3.

ECON 2010 - Principles of Microeconomics Credit: 3.

HIST 2020 - Modern United States History Credit: 3.

Total: 16

Junior Year

First Semester

BIOL 3120 - General Ecology Credit: 3. or

BIOL 3130 - General Ecology Credit: 4.

ESS 3000 - Introduction to Environmental Law Credit: 3.

MATH 3070 - Statistical Methods I Credit: 3. or

BIOL 4220 (5220) – Biostatistics Credit: 3.

PHYS 2010 - Algebra-based Physics I Credit: 4.

Electives Credit: 1.

Total: 14 – 15

Second Semester

BIOL 2310 - General Botany Credit: 4.

AGRN 3000 Soils Credit: 4

~~CHEM 4710 (5710) – Environmental Chemistry Credit: 3. or~~

~~ESS 3710 – Chemistry and the Environment Credit: 3.~~

GEOG 3200 - Water Resources Credit: 3.

HIST 3900 - Environmental History Credit: 3.
SOC 3600 - Environmental Sociology Credit: 3.
Total: 17

Senior Year

First Semester

AGBE 4120 (5120) - Natural Resource Economics Credit: 3.

BIOL 3140 - Cellular Biology Credit: 4. or
BIOL 3200 - General Microbiology Credit: 4. or
BIOL 3810 - General Genetics Credit: 4.

Biology Option Elective Credit: 6 – 7 1.

ESS 4001 - Society and the Environment: Capstone Experience Part 1. Credit: 3.

Total: 16 – 17

Second Semester

Biology Option Electives Credit: 6 1.

Electives Credit: 3 – 4.

ESS 4002 - Society and the Environment: Capstone Experience Part 2. Credit: 3.

Total: 12 – 13.

Note:

1 Biology Option Elective

One of the following:

AGHT 3450 Dendrology

BIOL 3240 Field Botany

BIOL 4330 (5330) Plant Ecology

ESS 4900 Internship

One of the following:

GEOG 2000 Earth Evolution and Life History

WFS 4500 (5500) National Wildlife Policy

WFS 4730 (5730) Conservation Biology

ESS 4300 Environmental Management Systems

One of the following:

BIOL 4650 (5650) Marine Biology

BIOL 4840 (5840) Limnology

BIOL 4130 (5130) Environmental Microbiology

One of the following:

BIOL 3330 Entomology

BIOL 4230 (5230) Animal Behavior

BIOL 4610 (5610) Invertebrate Zoology

BIOL 4630 (5630) Ornithology

BIOL 4810 (5810) Ichthyology

BIOL 4820 (5820) Mammalogy

BIOL 4830 (5830) Herpetology

2) **Environmental and Sustainability Studies, Environmental Science Concentration, Chemistry, B.S.**

Freshman Year

First Semester

CHEM 1110 - General Chemistry I Credit: 4.

ENGL 1010 - English Composition I Credit: 3.

ESS 1020 - Connections to Environmental and Sustainability Studies Credit: 1.

Humanities/Fine Arts Elective Credit: 3.

~~MATH 1130 - College Algebra Credit: 3. or~~

MATH 1830 - Applied Calculus Credit: 3. or

MATH 1910 - Calculus I Credit: 4.

Electives Credit: 1 – 2.

Total: 16

Second Semester

BIOL 1020 - Diversity of Life Credit: 4.

CHEM 1120 - General Chemistry II Credit: 4.

ENGL 1020 - English Composition II Credit: 3.

ESS 1100 - Introduction to Environmental Studies Credit: 3.

Electives Credit: 1 – 2.

Total: 15 – 16

Sophomore Year

First Semester

CHEM 3010 - Organic Chemistry I Credit: 4.

ENGL 2130 - Topics in American Literature Credit: 3. or
ENGL 2235 - Topics in British Literature Credit: 3. or
ENGL 2330 - Topics in World Literature Credit: 3.

GEOL 1045 - Earth Environment, Resources and Society Credit: 4.
PHIL 1030 - Introduction to Philosophy Credit: 3.

Total: 14

Second Semester

COMM 2025 - Fundamentals of Communication Credit: 3. or
PC 2500 - Communicating in the Professions Credit: 3.

~~AGRN 2300 – Soils Credit: 3.~~

~~AGRN 2310 – Soil Chemical Properties Credit: 1.~~

AGRN 3000 – Soils Credit: 4.

CHEM 3020 - Organic Chemistry II Credit: 4.

ECON 2010 - Principles of Microeconomics Credit: 3.

SOC 1010 - Introduction to Sociology Credit: 3.

Total: 17

Junior Year

First Semester

BIOL 3120 - General Ecology Credit: 3. or

BIOL 3130 - General Ecology Credit: 4.

CHEM 3410 - Quantitative Analysis Credit: 4.

ESS 3000 - Introduction to Environmental Law Credit: 3.

MATH 3070 - Statistical Methods I Credit: 3. or

BIOL 4220 (5220) – Biostatistics Credit: 3.

PHYS 2010 - Algebra-based Physics I Credit: 4.

Total: 17 – 18

Second Semester

CHEM 3500 - Elements of Physical Chemistry Credit: 3.

GEOL 3200 - Water Resources Credit: 3.

HIST 2010 - Early United States History Credit: 3.

HIST 3900 - Environmental History Credit: 3.

SOC 3600 - Environmental Sociology Credit: 3.

Total: 15

Senior Year

First Semester

AGBE 4120 (5120) - Natural Resource Economics Credit: 3.

CHEM 4710 (5710) - Environmental Chemistry Credit: 3.

ESS 4001 - Society and the Environment: Capstone Experience Part 1. Credit: 3.

HIST 2020 - Modern United States History Credit: 3.

Total: 12

Second Semester

~~CHEM 4720 (5720) – Advanced Environmental Chemistry Credit: 3.~~

Chemistry Option Electives Credit: 5 – 8 1.

ESS 4002 - Society and the Environment: Capstone Experience Part 2. Credit: 3.

Electives Credit: 2 – 5.

Total: 12 – 16

Note:

1 Chemistry Option Elective

Two of the following:

~~GEOL 4100 Environmental Sedimentology~~

GEOL 4650 (5650) Applied Geochemistry

~~GEOL 4711 (5711) Hydrogeology~~

GEOG 4510 (5510) - Theory of GIS I

GEOG 4650 (5650) Environmental Applications of GIS

GEOG 4511 Directive Elective

AGRN 3230 Environmental Soil Science

AGRN 4220 (5220) Environmental Soil Chemistry

~~BIOL 4130 (5130) Environmental Microbiology~~

BIOL 4840 (5840) Limnology

BIOL 4850 (5850) Applied Microbiology

WFS 4500 (5500) National Wildlife Policy

WFS 4730 (5730) Conservation Biology

CHEM 4720 (5720) Advanced Environmental Chemistry

CHEM 4992 Undergraduate Research

ESS 4900 Internship

ESS 4300 Environmental Management Systems

**Friendly Amendment: GEOG 4511 should also be listed as a direct elective after the GEOG 4650 (5650) Environmental application of GIS course for the Chemistry concentration.*

3) Environmental and Sustainability, Environmental Science Concentration, Natural Resources, B.S.

Freshman Year

First Semester

~~BIOL 1020 - Diversity of Life Credit: 4.~~

ENGL 1010 - English Composition I Credit: 3.

ESS 1020 - Connections to Environmental and Sustainability Studies Credit: 1.

~~ESS 1100 - Introduction to Environmental Studies Credit: 3.~~

~~GEOL 1045—Earth Environment, Resources and Society Credit: 4.~~

MATH 1130 - College Algebra Credit: 3. or

MATH 1830 - Applied Calculus Credit: 3. or

MATH 1910 - Calculus I Credit: 4.

~~SOC 1010—Introduction to Sociology Credit: 3.~~

Total: 14-15

Second Semester

~~BIOL 1020—Diversity of Life Credit: 4.~~

CHEM 1010 - Introductory Chemistry I Credit: 4. or

CHEM 1110 - General Chemistry I Credit: 4.

~~Electives Credit: 5-6.~~

ENGL 1020 - English Composition II Credit: 3.

Humanities/Fine Arts Elective Credit: 3.

~~ESS 1100—Introduction to Environmental Studies Credit: 3.~~

SOC 1010 - Introduction to Sociology Credit: 3.

Total: ~~15-16~~ 13

Sophomore Year

First Semester

~~CHEM 1010—Introductory Chemistry I Credit: 4. or~~

~~CHEM 1110—General Chemistry I Credit: 4.~~

AGBE 2010 - World Food and Society Credit: 3.

ENGL 2130 - Topics in American Literature Credit: 3. or

ENGL 2235 - Topics in British Literature Credit: 3. or

ENGL 2330 - Topics in World Literature Credit: 3.

~~GEOL 1045 - Earth Environment, Resources and Society Credit: 4.~~

HIST 2010 - Early United States History Credit: 3.

~~Humanities/Fine Arts Elective Credit: 3.~~

PHIL 1030 - Introduction to Philosophy Credit: 3.

Total: 16

Second Semester

COMM 2025 - Fundamentals of Communication Credit: 3. or
PC 2500 - Communicating in the Professions Credit: 3.

ECON 2010 - Principles of Microeconomics Credit: 3.
ESS 3710 - Chemistry and the Environment Credit: 3. ~~or~~
~~CHEM 4710 (5710) – Environmental Chemistry Credit: 3.~~
HIST 2020 - Modern United States History Credit: 3.
PHYS 2010 - Algebra-based Physics I Credit: 4.
Total: 16

Junior Year

First Semester

~~AGBE 2010 – World Food and Society Credit: 3.~~
~~Directed Elective Credit: 3.~~
Directed Elective Credit: 6.¹
Elective Credit: 1-2. 2 – 6.
ESS 3000 - Introduction to Environmental Law Credit: 3.

MATH 3070 - Statistical Methods I Credit: 3. or
~~BIOL 4220 (5220) – Biostatistics Credit: 3.~~

Total: ~~13-14-14~~ – 18

Second Semester

~~AGRN 2300 – Soils Credit: 3.~~
~~AGRN 2310 – Soil Chemical Properties Credit: 1.~~
AGRN 3000 Soils Credit: 4.

BIOL 3120 - General Ecology Credit: 3. or
BIOL 3130 - General Ecology Credit: 4.

GEOL 3200 - Water Resources Credit: 3.
HIST 3900 - Environmental History Credit: 3.
SOC 3600 - Environmental Sociology Credit: 3.
Total: 16-17

Senior Year

First Semester

AGBE 4120 (5120) - Natural Resource Economics Credit: 3.

~~AGRN 3230 – Environmental Soil Science Credit: 4.~~
One of the following:
AGRN 3230 – Environmental Soil Science Credit: 4.
ESS 4093 – Special Topics Credit: 3. or
ESS 4900 – Internship Credit: 3.

Directed Elective Credit: 3.¹

ESS 4001 - Society and the Environment: Capstone Experience Part 1. Credit: 3.

One of the following:

~~AGBE 4130—Agricultural Policy Credit: 3.~~

~~AGET 4720 (5720)—Agricultural Processing Credit: 3.~~

~~AGET 3110—Natural Resource Systems Credit: 2. and~~

~~AGET 3115—Natural Resource Systems Laboratory Credit: 1.~~

Total: ~~16~~ 12-13

Second Semester

Elective Credit: ~~3.~~ 6.

ESS 4002 - Society and the Environment: Capstone Experience Part 2. Credit: 3.

One of the following:

AGRN 4210 (5210) - Soil Fertility and Fertilizers Credit: 3.

AGRN 4220 (5220) - Environmental Soil Chemistry Credit: 3.

BIOL 4840 (5840) - Limnology Credit: 3.

GEOL 4150 (5150) - Geomorphology Credit: 4.

One of the following:

AGBE 4130 - Agricultural Policy Credit: 3.

AGET 3110 - Natural Resource Systems Credit: 2. and

AGET 3115 - Natural Resource Systems Laboratory Credit: 1.

~~AGET 4720 (5720)—Agricultural Processing Credit: 3.~~

ESS 4300 Environmental Management Systems Credit: 3.

Total: ~~12~~ 15 -16

Note:

¹Directed Electives

BIOL 4330 (5330) - Plant Ecology Credit: 3.

BIOL 4840 (5840) - Limnology Credit: 3.

~~ESS 4093 – Special Topics Credit: 3.~~

GEOL 2000 - Earth Evolution and Life History Credit: 3.

~~GEOG 1010—Weather and Climate Credit: 3.~~

GEOG 4510 (5510) - Theory of GIS I Credit: 3.

~~GEOG 4511 (5511) - Theory of GIS II Credit: 3.~~

GEOG 4650 (5650) - Environmental Applications of GIS Credit: 3.

WFS 4730 (5730) - Conservation Biology Credit: 3.

4) Environmental and Sustainability Studies, Society, Culture, and Communication Concentration, B.S.

Freshman Year

First Semester

CHEM 1010 - Introductory Chemistry I Credit: 4. or

CHEM 1110 - General Chemistry I Credit: 4.

ENGL 1010 - English Composition I Credit: 3.

ESS 1020 - Connections to Environmental and Sustainability Studies Credit: 1.

HIST 2010 - Early United States History Credit: 3.

MATH 1130 - College Algebra Credit: 3. or
MATH 1830 - Applied Calculus Credit: 3. or
MATH 1910 - Calculus I Credit: 4.

POLS 1030 - American Government Credit: 3.
Total: 17 – 18

Second Semester

BIOL 1020 - Diversity of Life Credit: 4.
ENGL 1020 - English Composition II Credit: 3.
ESS 1100 - Introduction to Environmental Studies Credit: 3.
HIST 2020 - Modern United States History Credit: 3.
SOC 1010 - Introduction to Sociology Credit: 3.
Total: 16

Sophomore Year

First Semester

COMM 2075 - Organizational Communication Credit: 3.

ENGL 2130 - Topics in American Literature Credit: 3. or
ENGL 2235 - Topics in British Literature Credit: 3. or
ENGL 2330 - Topics in World Literature Credit: 3.

Humanities/Fine Arts Elective Credit: 3.
JOUR 2200 - Mass Communication in a Changing Society Credit: 3.
PHIL 1030 - Introduction to Philosophy Credit: 3.
Total: 15

Second Semester

COMM 2025 - Fundamentals of Communication Credit: 3. or
PC 2500 - Communicating in the Professions Credit: 3.

~~ECS~~ SCC Elective Credit: 3.

ECON 2010 - Principles of Microeconomics Credit: 3.

Electives Credit: 6 4 – 5.

Total: ~~15~~ 13 – 14

Junior Year

First Semester

BMGT 3510 - Management and Organization Behavior Credit: 3.
~~ECS~~ SCC Elective Credit: 3.
ESS 3000 - Introduction to Environmental Law Credit: 3.
GEOL 1045 - Earth Environment, Resources and Society Credit: 4.

MATH 3070 - Statistical Methods I Credit: 3. or
BIOL 4220 (5220) – Biostatistics Credit: 3.

Total: 16

Second Semester

BIOL 3120 - General Ecology Credit: 3. or

BIOL 3130 - General Ecology Credit: 4.

~~CHEM 4710 (5710) – Environmental Chemistry Credit: 3. or~~

ESS 3710 - Chemistry and the Environment Credit: 3

HIST 3900 - Environmental History Credit: 3.

PC 3250 - Professional Communication I Credit: 3.

SOC 3600 - Environmental Sociology Credit: 3.

Total: 15-16

Senior Year

First Semester

AGBE 4120 (5120) - Natural Resource Economics Credit: 3.

~~ECS SCC~~ Elective Credit: 3.

ENGL 4931 (5931) - Literature and the Environment Credit: 3.

ESS 4001 - Society and the Environment: Capstone Experience Part 1. Credit: 3.

Total: 12

Second Semester

ECON 4200 - Environmental Economics Credit: 3.

~~ECS SCC~~ Elective Credit: 3.

~~Electives Credit: 5 – 6.~~

ESS 4002 - Society and the Environment: Capstone Experience Part 2. Credit: 3.

Total: 14 – 15

Select four courses from one of the following options for the ~~ECS SCC~~ Electives:

Communication and Media Option

JOUR 2220 - News Reporting and Copy Editing Credit: 3.

JOUR 3460 - Introduction to Public Relations Credit: 3.

PC 3700 - Information Design in the Professions Credit: 3.

PC 4970 (5970) - Professional Communication II Credit: 3.

COMM 3620 - Intercultural Communication Credit: 3.

COMM 4420 - Advanced Organizational Communication Credit: 3.

COMM 4630 (5630) - Persuasion Credit: 3.

WEBD 1500 - Introduction to Web Design Credit: 3.

WEBD 2300 - Web Site Design: Dynamic Sites Credit: 3.

~~ESS Internship Credit: 3.~~

~~ESS 4900 – Internship Credit: 3.~~

Social Science and Policy Option

~~GEOG 1035 – World Regional Geography I Credit: 3. or~~

GEOG 1012 - Cultural Geography Credit: 3. or

GEOG 1130 - Geography of Natural Hazards Credit: 3.

POLS 3300 - Introduction to Latin American Politics Credit: 3.
POLS 3700 - The Legislative Process Credit: 3.
POLS 4610 - Public Administration and Public Policies Credit: 3.
SOC 3720 - Rural Sociology Credit: 3.
SOC 4090 (5090) - Cross Cultural Communications and Cultural Diversity Credit:
3.
SOC 4330 (5330) - Population and Social Process Credit: 3.
SOC 4860 (5860) - Social Movements and Social Change Credit: 3.
ESS 4900 - Internship Credit: 3.

Leadership and Environmental Management Option
COMM 4420 - Advanced Organizational Communication Credit: 3.
~~PADM 4226 Intro to Nonprofit Organizations Credit: 3.~~
~~PSY 3590 Psychology of Personality Credit: 3.~~
ESS 4300 - Environmental Management System Credit: 3.
ESS 4900 – Internship Credit: 3.
LIST 3410 – Team Building and Workplace Dynamics Credit: 3.
LIST 3500 – Non Profit Leadership Credit: 3.
LIST 4300 – Workplace Performance Credit: 3.

5) **Environmental and Sustainability Studies, Environmental Technology
Concentration, B.S.**

Freshman Year

First Semester

CHEM 1110 - General Chemistry I Credit: 4.
Elective Credit: 3.
ENGL 1010 - English Composition I Credit: 3.
ESS 1020 - Connections to Environmental and Sustainability Studies Credit: 1.
HIST 2010 - Early United States History Credit: 3.
Total: 14

Second Semester

CHEM 1120 - General Chemistry II Credit: 4.
ENGL 1020 - English Composition II Credit: 3.
ESS 1100 - Introduction to Environmental Studies Credit: 3.
HIST 2020 - Modern United States History Credit: 3.
SOC 1010 - Introduction to Sociology Credit: 3.
Total: 16

Sophomore Year

First Semester

BIOL 1020 - Diversity of Life Credit: 4.

ENGL 2130 - Topics in American Literature Credit: 3. or
ENGL 2235 - Topics in British Literature Credit: 3. or

ENGL 2330 - Topics in World Literature Credit: 3.

Humanities/Fine Arts Elective Credit: 3.

MATH 1910 - Calculus I Credit: 4.

PHIL 1030 - Introduction to Philosophy Credit: 3.

Total: 17

Second Semester

COMM 2025 - Fundamentals of Communication Credit: 3. or

PC 2500 - Communicating in the Professions Credit: 3.

ECON 2010 - Principles of Microeconomics Credit: 3.

MATH 1920 - Calculus II Credit: 4.

PHYS 2010 - Algebra-based Physics I Credit: 4.

Total: ~~17~~ 14

Junior Year

First Semester

BIOL 3130 - General Ecology Credit: 4. or

BIOL 3120 - General Ecology Credit: 3.

CEE 3413 - Environmental Engineering Credit: 3.

Elective Credit: ~~2-3~~ 3 - 4.

ESS 3000 - Introduction to Environmental Law Credit: 3.

MATH 3070 - Statistical Methods I Credit: 3. or

BIOL 4220 (5220) – Biostatistics Credit: 3.

Total: ~~15~~ 16

Second Semester

ESS 3710 - Chemistry and the Environment Credit: 3. or

CHEM 4710 (5710) - Environmental Chemistry Credit: 3.

GEOG 4510 (5510) - Theory of GIS I Credit: 3.

GEOL 1045 - Earth Environment, Resources and Society Credit: 4.

HIST 3900 - Environmental History Credit: 3.

SOC 3600 - Environmental Sociology Credit: 3.

Total: 16

Senior Year

First Semester

AGBE 4120 (5120) - Natural Resource Economics Credit: 3.

Electives Credit: 3.

ET Elective Credit: 3¹.

ESS 4001 - Society and the Environment: Capstone Experience Part 1. Credit: 3.

~~GEOG 4650 (5650) – Environmental Applications of GIS Credit: 3.~~

GEOG 4511 (5511) Theory of GIS II Credit: 3.

Total: ~~12~~ 15

Second Semester

Electives Credit: ~~7~~ 6.

ET Elective Credit: 3¹.

ESS 4002 - Society and the Environment: Capstone Experience Part 2. Credit: 3.

Total: ~~13~~ 12

Note:

1 Environmental Technology Electives

AGET 3510 Agricultural Surveying

AGET 3620 Computer-Aided Design in Agriculture

AGET 2110 Agricultural Engineering Technology

BIOL 4130 (5130) Environmental Microbiology

BIOL 4840 (5840) Limnology

CEE 4410 (5410) Solid and Hazardous Waste Management

CEE 4430 (5430) Water and Wastewater Engineering

CEE 4450 (5450) Water Quality Modeling

ESS 4300 Environmental Management System

~~ESS 4900 – Internship Credit: 3.~~

GEOG 1130 Geography of Natural Hazards

~~GEOG (GEOL) 3200 – Water Resources Credit: 3.~~

~~GEOG 4511 (5511) Theory of GIS II~~

~~GEOG 4650 (5650) – Environmental Applications of GIS~~

~~GEOG 4850 (5850) – Advanced GIS Credit: 3.~~

GEOL 4711 (5711) Hydrogeology

PHYS 2010 Algebra-based Physics I or PHYS 2110 Calculus-based Physics I

WFS 4500 (5500) National Wildlife Policy

WFS 4730 (5730) Conservation Biology

Motion to approve. Mohan Rao

Second. Julie Baker

Vote. Motion carried

14. Informational items

A. Course Titles.

Course titles are limited to 30 characters. Section long titles are limited to 40 characters.

No other such matters being presented, the meeting was adjourned at 3:35 p.m.