UNIVERSITY CURRICULUM COMMITTEE  
2014-15 Meeting #9, November 17, 2014

Present: Heather Chermak, Don Crowley, Janine Darragh, Dan Eveleth (Chair), Rodney Frey, Rachel Fujita, Isaiah Gyan, Pat Hart, Tim Johnson, Joe Law, Tim Prather, Rick Stoddart, Todd Thorsteinson, Kerri Vierling.
Absent: Pilar Alfaro, Jeanne Stevenson, Sarah Vetsmany.
Others Present: Diane Armpriest, Rick Fletcher, Sean Quinlan, Scott Slovic, Eva Strand, Charles Tibbals.

Call to order: A quorum being present, the chair called the meeting to order at 3:30 p.m. in the SUB cataldo room. The minutes of the November 10, 2014 meeting were approved.

Other Business:

Old Business:

New Business:

UCC-15-045 Regulation J-3
Rick Fletcher introduced the proposed changes to Reuluation J-3 (General Education) that have been approved by UCGE. Committee member Frey provided some background on the changes. Committee chair Eveleth asked if there was concern with the two discipline requirement in the Natural Sciences and Social Sciences requirements. Committee member Law asked if the addition of the 3 credits to total 36 credits could come from any area in the General Education requirements. Frey and Fletcher indicated that the extra credit could be earned in any of the General Education areas. Committee member Crowley asked why the minimum 4 discipline requirement was being removed. Frey noted that a minimum of 2 disciplines is required in Natural Science, Humanities, and Social Sciences which should ensure the student is getting sufficient breadth thus eliminating the need for the 4 discipline requirement minimum statement. Fletcher asked if UCC would be willing to add Phys 491 to the proposal at this time. Charles Tibbals reminded the committee of the extremely tight time frame to get the proposed changes through the committee system. It was suggested by the committee that any additions to the Gen Ed lists come through at a future meeting. Hearing no further questions the motion to approve the proposal passed unanimously and will be forwarded to Faculty Senate for review.

UCC-15-054 College of Letters, Arts, and Social Sciences
Sean Quinlan introduced the proposed emphasis areas in the History (B.A.) major. Committee chair Eveleth noted the requirement of a minor in the European emphasis and asked if that was enforceable by the Registrar’s Office. Committee chair Chermak indicated that some advisor oversight would be needed to assure the students declare a minor. Charles Tibbals noted that the Degree Audit can be programmed to look for a minor to complete the requirement of the major. Committee member Stoddart asked who History had been in contact with in the Library to confirm that not new resources would be required. Quinlan said that the department felt that the program would not tax the existing material available in the Library. The committee made a change to the language under the Library section of the memo. Hearing no further questions the motion to approve the proposal passed unanimously and will be forwarded to Faculty Senate for review.

UCC-15-048 College of Art and Architecture
Art and Architecture: It was motioned and seconded to approve the proposed changes to Art and Architecture. Diane Armpriest provided a short course title for Arch 416/516. Committee chair Eveleth asked if the college would need to reserve seats for WSU students with the addition of the cooperative status to many CAA courses. Armpriest indicated that there was sufficient seating in those courses to accommodate WSU coop students. Committee member Fujita and Armpriest indicated that they thought the prerequisite to Art 597 ought to be limited to Art majors, but opted not to change the proposed language at this time. Hearing no further questions the motion to approve the proposed changes passed unanimously.

1. Add the following course:

Arch J416/J516 Social Sustainability in Contemporary Cities (3 cr)
Seminar provides an overview of the social dimension of sustainability and its related issues in contemporary cities in the world. Exploration of concepts and strategies of social urban sustainability through case studies to critically evaluate urban governance and policies in both developed and developing countries, and assessment of struggles for social justice and equality. Additional projects/assignments required for graduate credit.

Recommended Short Course Title: Urban Social Sustainability

1 of 13
**Arch J432/J532  Advanced Analog Graphics (3 cr)**
Advanced sketchbook and large-format drawing development focused on the built environment. Analog (i.e. physical) media, including graphite, Ink and watercolor. Additional projects/assignments required for graduate credit.  
**Prereq:** Arch 154 and Arch 254; or Permission

**Art 217  Ancient & Pre-Modern Art (3 cr)**
A survey of ancient to early modern art, covering the period from classical antiquity through neoclassicism and the industrial revolution. Particular care will be taken to situate the art, architecture, and design of each period in its cultural, political, and religious contexts. Basic methods and approaches of art history will be also be covered. Classes will be mostly lectures, with discussion of primary sources. No prior experience with art or history is required.

**ID 243  Digital Design Tools for Architecture and Interior Design (2 cr)**
See Arch 243

**ID 244  Computer Aided Drafting and Modeling (2 cr)**
See Arch 244.

**ID 415  Design Management (3 cr)**
This course aims to provide a foundation of business knowledge that will prepare design students to work in management. This is a lecture and case study based class. Open to Juniors, Seniors and Graduate students.

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2. Reactivate and change the following course:

**Art 360 Intermediate/Advanced Ceramics (3 cr, max 9)**
Intermediate and Advanced level studio environment with further exploration of ceramic methods including wheel-thrown building techniques, kiln and studio procedures, creative autonomy, portfolio development, and comprehension of historical and contemporary issues relevant to studio projects and ceramics discourse. Two 3-hr studios a wk and assigned work. Development and articulation of individual design criteria in ceramics; development of personal conceptual and technical skills in ceramics. Two 3-hr studios a wk and assigned work.  
**Prereq:** Art Core, Art 261 or Permission

Recommended Short Course Title: Int/Adv Ceramics

3. Change the following courses:

**Arch 154  Introduction to Architectural Graphics (3 cr)**
Introduction to architectural graphics; two 1-hour lecture sessions per week, plus two 1-hour studio sessions per week; weekly assigned drawing projects, readings, and sketchbook projects; periodic quizzes.  
**Cooperative:** open to WSU degree-seeking students.

**Arch 243  Digital Design Tools for Architecture and Interior Design (2 cr)**
Same as ID 243. Introduction to software programs for use in designing the built environment. Including but not limited to 3-D modeling. (8 weeks)  
**Prereq:** Arch 154

**Arch 244  Computer Aided Drafting and Modeling (2 cr)**
Same as ID 244. Introduction to computer-aided drafting and modeling techniques and applications.  
**Prereq:** Arch 154

**Arch 421/J521  China Program Preparation Seminar (2 cr)**
Seminar course preparing students for summer study abroad program in China. This course will introduce travelling, money management, safety, visa application, and some basic cultural introductions. Also, this class will introduce the academic courses to be undertaken in China and prepare research data collection. Required for all students enrolled in the China program.  
**Cooperative:** open to WSU degree-seeking students. (Spring only)

**Prereq:** Arch 353 or LArc 353

**Arch 430  Rome Preparatory Seminar (2 cr)**
Seminar preparing students for summer study abroad in Rome, Italy. Introduces academic courses to be taken in Rome, and begins research and information-gathering tasks for Design Studio and Rome Design History courses. Also includes practical matters such as travel planning, money, safety, and basic language skills.  
**Cooperative:** open to WSU degree-seeking students. (Spring only)

**Arch 580  British Green Architecture (2 cr)**
Preparation for students who will participate in the summer studies abroad program in London, including basic research on green building in the UK, helping plan the itinerary. All logistical preparations for studies abroad will be discussed and students are familiarized with both green approaches to design and British culture.  
**Cooperative:** open to WSU degree-seeking students. (Spring only)

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Art 261 Ceramics I (3 cr)
Introductory studio environment with emphasis on basic design principles and techniques, hand-built forming methods, development and articulation of individual design criteria, and glaze and surface experimentation. Two 3-hr studios a wk and assigned work.

Art 272 Interaction Design II/Experiential Design I (3 cr)
Introduction to Experiential Design strategies and methodologies that focus upon immersive storytelling and place making, and the interfaces that connect content to environments. Exercises and projects assigned will analyze and explore the use of rich media, technology, and interface design introduction to time-based (narrative) design strategies and how they are utilized as tools of communication in interaction design. Analysis of various case studies that use narrative story telling as a means to communicate information. Industry standard Digital Design and Motion Design software will be introduced. Demos and topic discussion including a wide variety of time-based mediums (video, animation, motion design, stop-motion). Recommended Preparation: Basic knowledge of digital design software or Art 216 (strongly recommended).

Art 370 Intermediate/Advanced Interaction + Experiential Design (3 cr, max 9)
Advance analysis of interaction and experiential design strategies and methodologies. Emphasis on individual development in conceptual and technical abilities. Collaboration, installation and exhibition of work outside of class may be assigned. Two 3-hr studios a week and assigned work. Advance analysis of both design and development techniques, and strategies used in various interactive mediums. Relevant industry standard programming languages will be introduced throughout semester. Discussions, exercises and projects assigned will address interactive design best practices, trends and current industry standards.
Prereq: Art 271 or Art 272 or Permission

Recommended Short Course Title: Int/Adv Interact+Experiential

Art 597 (s) Practicum (3 cr, max 6)
Open only to art majors. Classroom assistance in teaching and preparation of course materials. Hands-on experience in classroom teaching and gallery practice conducted under supervision of faculty or gallery director supervision. Normally requires 4-6 hrs a wk in class and assigned work.
Prereq: Major in the College of Art and Architecture or Permission of individual faculty and art graduate coordinator

ID 410 Capstone Proposal Development (1-2 cr)
Capstone Studio proposal development requiring systematic approach to the development of project proposal in preparation for ID 452. 8 week course/1 credit hour course.
Coreq: ID 451

4. Change the curricular requirements of Interior Design (B.I.D.):

Required course work includes the university requirements (see regulation J-3) and:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arch 151</td>
<td>Introduction to the Built Environment (2 cr)</td>
</tr>
<tr>
<td>Arch 154</td>
<td>Introduction to Architectural Graphics (3 cr)</td>
</tr>
<tr>
<td>Arch 243</td>
<td>Digital Design Tools for Architecture and Interior Design (2 cr)</td>
</tr>
<tr>
<td>Arch 244</td>
<td>Computer Aided Drafting and Modeling (2 cr)</td>
</tr>
<tr>
<td>Arch 253</td>
<td>Architectural Design I (3 cr)</td>
</tr>
<tr>
<td>Arch 266</td>
<td>Materials and Methods (3 cr)</td>
</tr>
<tr>
<td>Arch 385</td>
<td>History of Architecture I (3 cr)</td>
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<tr>
<td>Arch 386</td>
<td>History of Architecture II (3 cr)</td>
</tr>
<tr>
<td>Arch 463</td>
<td>Environmental Control Systems I (3 cr)</td>
</tr>
<tr>
<td>Arch 463L</td>
<td>Environmental Control Systems I Lab (1 cr)</td>
</tr>
<tr>
<td>Arch 464</td>
<td>Environmental Control Systems II (3 cr)</td>
</tr>
<tr>
<td>Arch 464L</td>
<td>Environmental Control Systems II Lab (1 cr)</td>
</tr>
<tr>
<td>Arch 475</td>
<td>Professional Practice (3 cr)</td>
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<tr>
<td>Art 110</td>
<td>Integrated Art and Design Communication (2 cr)</td>
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<tr>
<td>Art 112</td>
<td>Drawing as Integrated Design Thinking (2 cr)</td>
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<tr>
<td>Art 121</td>
<td>Integrated Design Process (2 cr)</td>
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<tr>
<td>ID 151</td>
<td>Introduction to Interior Design (3 cr)</td>
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<tr>
<td>ID 152</td>
<td>Interior Design I (3 cr)</td>
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<tr>
<td>ID 243</td>
<td>Digital Design Tools for Architecture and Interior Design (2 cr)</td>
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<tr>
<td>ID 244</td>
<td>Computer Aided Drafting and Modeling (2 cr)</td>
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<tr>
<td>ID 254</td>
<td>Architectural Design II (4 cr)</td>
</tr>
<tr>
<td>ID 281</td>
<td>History of Interiors I (3 cr)</td>
</tr>
<tr>
<td>ID 282</td>
<td>History of Interiors II (3 cr)</td>
</tr>
<tr>
<td>ID 332</td>
<td>Furniture Design and Construction (3 cr)</td>
</tr>
</tbody>
</table>
Courses to total 127.125 credits for this degree. (including 3 cr from a list of advisor-directed electives)

Rationale: Reduce directed electives, cross list technology courses with architecture (courses were developed together), and add 1 credit to our capstone development course in order to expand length and content.

UCC-15-049 Office of the Registrar
Committee member Chermak introduced a student petition to received academic credit from a non-regionally accredited institution. Committee member Hart asked where the particular school was located. Committee member Law asked about equating 100-level courses to 400-level courses and not having them count as upper-division courses. Charles Tibbals noted that when the Office of the Registrar articulates a course like this it is coded to remain lower-division despite the course number. Committee chair Eveleth asked about the process of reviewing these petitions prior to their arrival at UCC. Committee member Stoddart asked how this process differs from the list of courses from New St. Andrews that was approved earlier in the Fall. Chermak said that New St. Andrews is an exception to the rule because of their proximity to the UI. Hearing no further questions the motion to approve the proposal passed with one abstention and will be forwarded to the Registrar’s Office for processing.

UCC-15-050 College of Natural Resources
Conservation Social Sciences: It was motioned and seconded to approve the proposed change to Conservation Social Sciences. Hearing no questions the motion to approve the proposed change passed unanimously.

1. Add the following course:

   CSS 574 Environmental Politics and Policy (3 cr)
   Political and institutional context for the formulation, implementation, and evaluation of U.S. environmental policy.

   Recommended Short Course Title: Env Politics & Policy

Fish and Wildlife Sciences: It was motioned and seconded to approve the proposed changes to Fish and Wildlife Sciences. Committee member Vierling provided background information on the proposed changes. Charles Tibbals asked about repeatability on WLF 540. Eva Strand said she was uncertain and would like to speak with the instructor. The committee agreed to hold WLF 540 pending further review in the College of Natural Resources. Hearing no further questions the motion to approve the proposed changes passed unanimously.

1. Add the following courses:

   Fish 202 Fish & Wildlife Applications II (1 cr)
   This two semester sequence (WLF201, Fish 202) of courses will introduce students to research questions and methods in fish and wildlife sciences, the culture and organization of potential state, federal and tribal employers and management challenges for fish and wildlife. The course will include an experiential learning field trip.
   Prereq: NR 101 or Permission

   Recommended Short Course Title: None Provided. Editor recommends: Fish&Wildlife Applications II

   WLF 105 Hunter Education (2 cr)
   The course provides an overview of hunter ethics; wildlife management, conservation, and survival; and wildlife laws and law enforcement. This course also fulfills the state requirement for hunter education for purchase of a hunting license. Course includes in-class instruction and one outdoor field day. Graded Pass/Fail.

   WLF 201 Fish and Wildlife Applications I (1 cr)
   This two semester sequence (WLF201, Fish 202) of courses will introduce students to research questions and methods in fish and wildlife sciences, the culture and organization of potential state, federal and tribal employers, and management challenges for fish and wildlife populations and habitats. The course will include an experiential learning field trip.
   Prereq: NR 101 or Permission

   Recommended Short Course Title: None Provided. Editor recommends: Fish&Wildlife Applications I
WLF 205 Wildlife Law Enforcement (2 cr)
This course will provide students with an introduction to the history of wildlife laws and the role of a Conservation Officer. It will also provide students with a better understanding of wildlife crimes and the impact they have on fish and wildlife. This course is designed for students seeking a career in wildlife law enforcement as well as those pursuing a career in wildlife/fisheries/habitat management.

2. Change the curricular requirements of Fishery Resources (B.S.Fish.Res.):
Students pursuing a B.S. degree in fishery resources (management or aquaculture emphasis) must have received a grade of C or better in each of the following four indicator courses to register for fish- and wildlife-prefixed upper-division courses and to graduate with a B.S.Fish.Res.: Biol 116 and 213, Stat 251, and For 221.

To graduate, students must achieve a grade of C or better in Biol 481, and each fish- and wildlife-prefixed upper-division course listed in the requirements for the B.S. degree in fishery resources.

Required course work includes the university requirements (see regulation J-3) and:

First and Second Years

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<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>Biol 115</td>
<td>Cells and the Evolution of Life</td>
<td>4 cr</td>
</tr>
<tr>
<td>Biol 116</td>
<td>Organisms &amp; Environments</td>
<td>4 cr</td>
</tr>
<tr>
<td>Biol 213</td>
<td>Principles of biological Structure and Function</td>
<td>4 cr</td>
</tr>
<tr>
<td>Chem 101</td>
<td>Introduction to Chemistry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>Comm 101</td>
<td>Fundamentals of Public Speaking</td>
<td>2 cr</td>
</tr>
<tr>
<td>Econ 202</td>
<td>Principles of Microeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>Fish 102</td>
<td>The Fish and Wildlife Professions</td>
<td>1 cr</td>
</tr>
<tr>
<td>Fish 202</td>
<td>Fish &amp; Wildlife Applications I</td>
<td>1 cr</td>
</tr>
<tr>
<td>For 235 or CSS 235</td>
<td>Society and Natural Resources</td>
<td>3 cr</td>
</tr>
<tr>
<td>Math 160</td>
<td>Survey of Calculus</td>
<td>4 cr</td>
</tr>
<tr>
<td>NR 101</td>
<td>Exploring Natural Resources</td>
<td>1 cr</td>
</tr>
<tr>
<td>Stat 251</td>
<td>Statistical Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>WLF 201</td>
<td>Fish and Wildlife Applications I</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

One of the following (3 cr):
- Chem 275 Carbon Compounds (3 cr)
- Chem 277 Organic Chemistry (3 cr)

One of the following (3 cr):
- For 221 Ecology (3 cr)
- REM 221 Ecology (3 cr)

One of the following (4 cr):
- Geol 101, Geol 101L Physical Geology and Lab (4 cr)
- Soil 205, Soil 206 The Soil Ecosystem and Lab (4 cr)

One of the following (4 cr):
- Phys 100, Phys 100L Fundamentals of Physics and Lab (4 cr)
- Phys 111, Phys 111L General Physics I and Lab (4 cr)

Third and Fourth Years

<table>
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<tr>
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<tbody>
<tr>
<td>Biol 250, Biol 255</td>
<td>General Microbiology and Lab</td>
<td>5 cr</td>
</tr>
<tr>
<td>Biol 481</td>
<td>Ichthyology</td>
<td>4 cr</td>
</tr>
<tr>
<td>CSS 383</td>
<td>Natural Resource and Ecosystem Service Economics</td>
<td>3 cr</td>
</tr>
<tr>
<td>Fish 314</td>
<td>Fish Ecology</td>
<td>3 cr</td>
</tr>
<tr>
<td>Fish 315</td>
<td>Fish Ecology Lab</td>
<td>1 cr</td>
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<tr>
<td>Fish 316</td>
<td>Principles of Population Dynamics</td>
<td>2 cr</td>
</tr>
<tr>
<td>Fish 415</td>
<td>Limnology</td>
<td>4 cr</td>
</tr>
<tr>
<td>Fish 418</td>
<td>Fisheries Management</td>
<td>4 cr</td>
</tr>
<tr>
<td>Fish 495</td>
<td>Seminar</td>
<td>1 cr</td>
</tr>
<tr>
<td>For 375</td>
<td>Introduction to Spatial Analysis for Natural Resource Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>WLF 448</td>
<td>Fish and Wildlife Population Ecology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

Approved work experience in major field required

One of the following (3 cr):
- AVS 371 Anatomy and Physiology (3 cr)
- Biol 423 Comparative Vertebrate Physiology (3 cr)

One of the following (3 cr):
- Engl 313 Business Writing (3 cr)
- Engl 317 Technical Writing (3 cr)
One of the following (3-4 cr):
Fish 422 Concepts in Aquaculture (3 cr)
Fish 424 Fish Health Management (4 cr)

One of the following (3-4 cr):
Biol 310, Biol 315 Genetics and Lab (4 cr)
Gene 314 General Genetics (3 cr)

Courses to total 120 credits for this degree

3. Change the curricular requirements of **Wildlife Resources** (B.S.Wildl.Res.):

Students pursuing a B.S. in wildlife resources must have received a grade of C or better in each of the following four indicator courses to register in fish- and wildlife-prefixed upper-division courses and to graduate with a B.S. in wildlife resources: Biol 116 and 213, Stat 251, and For 221.

To graduate, a student must receive a grade of C or better in each fish- and wildlife-prefixed upper-division course listed in the requirements for the B.S. in wildlife resources.

Required course work includes the university requirements (see regulation J-3) and:

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<td>WLF 201</td>
<td>Fish and Wildlife Applications I (1 cr)</td>
</tr>
</tbody>
</table>

One of the following (3 cr):
Chem 275 Carbon Compounds (3 cr)
Chem 277 Organic Chemistry I (3 cr)

One of the following (3 cr):
For 221 Ecology (3 cr)
REM 221 Ecology (3 cr)

One of the following (3-4 cr):
For 320 Dendrology (4 cr)
REM 341 Systematic Botany (3 cr)

One of the following (4 cr):
Geol 101, Geol 101L Physical Geology and Lab (4 cr)
Soil 205, Soil 206 The Soil Ecosystem and Lab (4 cr)

One of the following (4 cr):
Math 160 Survey of Calculus (4 cr)
Math 170 Analytic Geometry and Calculus I (4 cr)

### Third and Fourth Years

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<tr>
<td>For 375</td>
<td>Introduction to Spatial Analysis for Natural Resource Management (3 cr)</td>
</tr>
<tr>
<td>WLF 314, WLF 315</td>
<td>Wildlife Ecology I and Lab (4 cr)</td>
</tr>
<tr>
<td>WLF 316</td>
<td>Wildlife Ecology II (4 cr)</td>
</tr>
<tr>
<td>WLF 440</td>
<td>Conservation Biology (3 cr)</td>
</tr>
<tr>
<td>WLF 448</td>
<td>Fish and Wildlife Population Ecology (4 cr)</td>
</tr>
<tr>
<td>WLF 492</td>
<td>Wildlife Management (4 cr)</td>
</tr>
<tr>
<td>WLF 495</td>
<td>Wildlife Seminar (1 cr)</td>
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</tbody>
</table>

One of the following (3-4 cr):
Biol 310, Biol 315 Genetics and Lab (4 cr)
Gene 314 General Genetics (3 cr)

One of the following (4 cr):

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Phys 100, Fundamentals of Physics and Lab (4 cr)
Phys 100L
Phys 111, General Physics I and Lab (4 cr)
Phys 111L

One of the following (3 cr):
Comm 431, Applied Business and Professional Communication (3 cr)
Engl 208, Personal and Exploratory Writing (3 cr)
Engl 317, Technical Writing (3 cr)

Restricted electives, choose two courses from the following (must receive a grade of C or better):
Biol 481, Ichthyology (4 cr)
Biol 483, Mammalogy (3 cr)
Biol 489, Herpetology (4 cr)
WLF 482, Ornithology (4 cr)

Approved work experience in major field required

Courses to total 120 credits for this degree

Forest, Rangeland, and Fire Sciences: It was motioned and seconded to approve the proposed changes to Forest, Rangeland, and Fire Sciences. Committee chair Eveleth asked if identifying REM 221 in the course description was necessary. Eva Strand noted that For 221 and REM 221 are taught by two different instructors, but that the same material was covered. The committee discussed this and expressed concern that these two courses may not be exactly the same and that cross-listing might be inappropriate. The committee opted to hold the For 221 and REM 221 proposals pending further review by the College of Natural Resources. Hearing no further questions the motion to approve the proposed changes passed unanimously.

1. Drop the following courses:

For 540 Conservation Genetics (3 cr)
See WLF 540.

For 556 Phylogenetics Reading Group (1 cr, max arr)
Review recent articles in phylogenetics and systematics journals. Students choose, critically review, and discuss the articles to develop critical-thinking skills and confidence in their knowledge of the literature. Graded P/F.

2. Add the following courses:

For 210 Winter Harvesting (1 cr)
This is an introduction to chainsaw safety and operation, precision timber falling, and winter harvesting methods taught as an intermediate-level forestry field practicum during the final week of winter break. All day classes take place on the University of Idaho Experimental Forest. Safety instruction covers methods taught in state and federal land agencies and other popular faller safety programs.
Prereq: Instructor Permission

For 546 Science Synthesis and Communication (3 cr)
This course is an online course only. Critically review science literature and write both brief and in-depth syntheses to address applied questions in science and management. Learn best practices for summarizing and communicating science effectively. Discuss challenges for application of science in management. Examples will focus on wildland fire science and management.

Recommended Short Course Title: Science Synthesis and Comm

For 557 Advanced Fire Behavior (3 cr)
Credit may be earned in only one of the following: For 450 or For 557. This course is an online course only. Understand the processes that control fire behavior in forest and rangelands, including combustion, emissions and heat release, and related fire effects. Use theory and advanced knowledge with scientific literature and case studies to critically assess the assumptions and limitations of limitations of surface and crown fire models, including the varying influences of fuels, terrain, and environmental conditions.

For 587 Wildland Fire Policy (2 cr)
This course is an online course only. Relationships between fire science and management and the federal laws and regulations that affect fire management in wildland ecosystems; the politics of wildland fire; and the effects of wildland fire on wildland-urban interface (WUI) communities. Recommended preparation is an upper division course in natural resource, environmental policy, or FOR 584. (Fall only)

3. Change the following courses:
**For 102 Introduction to Forest Management (1 cr)**
Intro to forestry, current management issues, timber and non-timber resources, educational and professional opportunities. Includes regional field trips ranging in length from one afternoon to one weekend.

**For 273 Forestry Sampling Methods (2 cr)**
Principles and practice of natural resource inventory, forest sampling and data analysis techniques, LIDAR, forest growth, and quantitative decision support. Lab analysis examples and use of Excel and statistical packages are integrated into lectures. (Fall only)
Coreq: For 274 and Stat 251

**For J454/J554 Air Quality, Pollution, and Smoke Management (3 cr)**
Assessment of the controls and drivers of emission processes and impacts on air quality from agricultural, prescribed, and wildfires, industry, and other natural sources. Overview of the combustion and emission process, how these emissions impact the ‘quality of air’, and what models exist to monitor the emission. Other topics to include: recent EPA and other guidelines for smoke management planning, attainment issues, atmospheric transport and deposition processes, collaborative process for implementing smoke management plans. Additional work required for graduate credit.
Prereq: For 326

Recommended Short Course Title: Air Quality, Pollution & Smoke

**For 584 Natural Resource Policy Development (3 cr)**
This course is an online course only. The development of natural resource policy with emphasis on the policy process at the federal level in the U.S.; the role of and interrelationships between staff, committees, agencies and elected officials; the relationship of science and scientists with policy and politicians in the development of natural resource policy, including preparation of testimony related to natural resource science and policy issues; implementation of policy within the natural resource agencies and judicial interpretation of major natural resource policies in the U.S. Recommended Preparation: An upper-division course in natural resource and/or environmental policy (Spring only)
Prereq: Undergraduate course in natural resource policy or political science or Permission

4. Change the curricular requirements of **Forest Resources (B.S.For.Res.):**

Students pursuing a B.S. degree in forest resources must receive a grade of C or better in the following indicator courses to register for upper-division courses in forest resources and to graduate with a B.S.For.Res.: Math 143, Stat 251, For 221, and For 274. Students must also have a minimum cumulative grade-point average of 2.00 in forest resource (For) courses to qualify for the B.S. degree in forest resources.

Required course work includes the university requirements (see regulation J-3) and:

- Biol 115 Cells and the Evolution of Life (4 cr)
- CSS 383 Natural Resource and Ecosystem Service Economics (3 cr)
- Econ 202 Principles of Microeconomics (3 cr)
- For 102 Introduction to Forest Management (1 cr)
- For 235 or CSS 235 Society and Natural Resources (3 cr)
- Ent 469 Introduction to Forest Insects (2 cr)
- For 274 Forest Measurement and Inventory (3 cr)
- For 320 Dendrology (4 cr)
- For 324 Forest Regeneration (3 cr)
- For 330 Forest Soil and Canopy Processes (4 cr)
- For 373 Forestry Sampling Methods (2 cr)
- For 375 Introduction to Spatial Analysis for Natural Resource Management (3 cr)
- For 424 Forest Dynamics and Management (4 cr)
- For 430 Forest Operations (3 cr)
- For 462 Watershed Science and Management (3 cr)
- For 430 Forest Operations (3 cr)
- For 468 Forest and Plant Pathology (2 cr)
- For 484 Forest Policy and Administration (2 cr)
- Math 143 Pre-calculus Algebra and Analytic Geometry (3 cr)*
- Math 144 Analytic Trigonometry (1 cr)
- NR 101 Exploring Natural Resources (1 cr)
- Soil 205, 206 The Soil Ecosystem and Lab (4 cr)
- Stat 251 Statistical Methods (3 cr)

One of the following (4 cr):
- Biol 116 Organisms and Environments (4 cr)
- PiSc 205 General Botany (4 cr)

One of the following (4 cr):
- Chem 101 Introduction to Chem I (4 cr)
Chem 111  Principles of Chem I (4 cr)
One of the following (3 cr):
Engl 313  Business Writing (3 cr)
Engl 317  Technical Writing (3 cr)
One of the following (3 cr):
REM 221  Ecology (3 cr)
REM 221  Ecology (3 cr)
One of the following (4 cr):
Phys 100, Phys 100L  Fundamentals of Physics and Lab (4 cr)
Phys 111, Phys 111L  General Physics I and Lab (4 cr)
Restricted Electives (11 cr):
AgEc 477  Law, Ethics, and the Environment (3 cr)
Biol 213  Principles of Biological Structure and Function (4 cr)
Biol 421  Advanced Evolutionary Biology (3 cr)
CSS 486  Public Involvement in Natural Resource Management (3 cr)
CSS 490  Wilderness and Protected Area Management (3 cr)
Fish 314  Fish Ecology (3 cr)
Fish 415  Limnology (4 cr)
Fish 430  Riparian Ecology and Management (3 cr)
For 255  Nursery Irrigation and Fertilization (1 cr)
For 326  Fire Ecology and Management (3 cr)
For 427  Prescribed Burning Lab (3 cr)
For 431  Low Volume Forest Roads (2 cr)
For 436  Cable Systems (2 cr)
For 472 or REM 472  Remote Sensing of the Environment (4 cr)
For 497  Senior Thesis (2-4 cr)
Geog 301  Meteorology (3 cr)
Geog 385  GIS Primer (3 cr)
Geol 111, Geol 111L  Physical Geology for Science Majors (4 cr)
Math 160  Survey of Calculus (4 cr)**
Math 170  Analytic Geometry and Calculus I (4 cr)**
PoIS 364 or  CSS 364  Politics of the Environment (3 cr)
REM 407  GIS Applications in Fire Ecology and Management (2 cr)
REM 410  Principles of Vegetation Measurement and Assessment (2 cr)
REM 411  Ecological Monitoring and Analysis (2 cr)
REM 429  Landscape Ecology (3 cr)
REM 440  Wildland Restoration Ecology (2 cr)
REM 459  Rangeland Ecology (2 cr)
REM 460  Integrating GIS and Field Studies in Rangelands (2 cr)
RMat 321  Renewable Materials Anatomy and Properties (3 cr)
RMat 444  Primary Products Manufacturing (3 cr)
Soil 446  Soil Fertility (1-3 cr)
Soil 454  Soil Development and Classification (3 cr)
Stat 431  Statistical Analysis (3 cr)
WLF 314  Wildlife Ecology I (3 cr)
WLF 316  Wildlife Ecology II (3 cr)
WLF 440  Conservation Biology (3 cr)
Courses to total 120 credits for this degree
*Note: A SAT math score of 610 or above, or ACT math score of 27 or above can be used to satisfy the Math 143 and Math 144 requirements.
**Note: Either Math 160 or Math 170 may be used as a restricted elective, but not both.

Natural Resources: It was motioned and seconded to approve the proposed changes to Natural Resources. Per the College of Natural Resources’ request the proposed course NR 512 is being pulled for further review by the college. Hearing no questions the motion to approve the proposed changes passed unanimously.

1. Add the following courses:

NR 520  Preparing Scientific Manuscripts (2 cr)
Details the preparation of manuscripts for thesis chapters and submission to peer-reviewed journals. Exercises include identifying scope, unique requirements for manuscript parts, use of graphing and reference database tools, editing and peer reviewing. Two 75 min classes per week, first half of semester. Second half of semester involves weekly writing workshops to finalize projects. Entry into class requires possession of analyzed dataset.

Prereq: Permission

Recommended Short Course Title: Preparing Science Manuscripts

**NR 525 Scientific Graphics Design (3 cr)**

Principles of graphics design for science, including the graphical presentation of data for printed and electronic journals, poster presentations, and oral presentations. Students will analyze published scientific graphics as well as learn to design their own graphs based on data from their graduate research or other sources.

### 2. Change the curricular requirements of **Natural Resource Conservation (B.S. Nat. Resc. Consv.)**:

Required Course work includes the university requirements (see regulation J-3) and:

- **CSS 235**  
  Society and Natural Resources (3 cr)
- **CSS 287**  
  Foundations of Conservation Leadership and Management (taken simultaneously with NR 101) (3 cr)
- **CSS 383**  
  Natural Resource and Ecosystem Service Economics (3 cr)
- **CSS 387**  
  Environmental Communication Skills (3 cr)
- **Econ 202**  
  Principles of Microeconomics (3 cr)
- **For 375**  
  Introduction to Spatial Analysis for Natural Resource Management (3 cr)
- **NR 101**  
  Exploring Natural Resources (taken simultaneously with CSS 287) (1 cr)
- **Stat 251**  
  Statistical Methods (3 cr)

One writing course, such as Engl 207, Engl 208, Engl 313, Engl 316, Engl 317 (3 cr)

One of the following (3 cr):

- **For 221**  
  Ecology (3 cr)
- **REM 221**  
  Ecology (3 cr)

One of the following (3-4 cr):

- Math 143  
  Pre-calculus Algebra and Analytic Geometry (3 cr)
- Math 170  
  Analytic Geometry and Calculus I (4 cr)

And one of the following emphases:

#### A. Conservation Planning and Management Emphasis

Students must attend one, two-week long field studies course during summer session. Special fees are required for this and a few other courses. To graduate a student must earn an average GPA 2.30 or higher in all CSS courses.

- **CSS 304**  
  Conservation Social Sciences Field Studies (3 cr)
- **CSS 310**  
  Social Research Methods in Conservation (4 cr)
- **CSS 364**  
  Politics of the Environment (3 cr)
- **CSS 388**  
  Conservation Management and Planning I (4 cr)
- **CSS 475**  
  Conservation Management and Planning II (4 cr)
- **CSS 486**  
  Public Involvement in Natural Resource Management (3 cr)
- **CSS 489**  
  Personalities and Philosophies in Conservation (3 cr)

One of the following (4 cr):

- **Biol 102, Biol 102L**  
  Biology and Society and Lab (4 cr)
- **Biol 115**  
  Cells and the Evolution of Life (4 cr)

One of the following (2-4 cr):

- **Comm 101**  
  Fundamentals of Public Speaking (2 cr)

One semester of a foreign language course

One of the following (3 cr):

- **PoliS 101**  
  Intro to Political Science and American Government (3 cr)
- **PoliS 275**  
  American State and Local Government (3 cr)

One of the following (4 cr):

- **Chem 101**  
  Introduction to Chem I (4 cr)
- **Chem 111**  
  Principles of Chem I (4 cr)
- **Geol 101, Geol 101L**  
  Physical Geology and Lab (4 cr)

One of the following (3 cr):

### 10 of 13
For 326  Fire Ecology and Management (3 cr)
REM 440  Wildland Restoration Ecology (3 cr)
REM 459, REM 460  Rangeland Ecology (2 cr); and Integrating GIS and Field Studies in Rangelands (2 cr)
WLF 314  Wildlife Ecology I (3 cr)

Two of the following (6 cr):
CSS 490  Wilderness and Protected Area Management (3 cr)
CSS 493  International Land Preservation and Conservation Systems (3 cr)
LArch 480  The Emerging Landscape (3 cr)
WLF 440  Conservation Biology (3 cr)

Two of the following (6 cr):
Anth 100  Introduction to Anthropology (3 cr)
Psyc 101  Introduction to Psychology (3 cr)
Soc 101  Introduction to Sociology (3 cr)

12 credits (if not chosen above) from the following, in at least 2 disciplines with at least 2 courses in one discipline:
AgEc 477  Law, Ethics, and the Environment (3 cr)
Anth 428  Social and Political Organization (3 cr)
Bus 321  Marketing (3 cr)
Comm 410  Conflict Management (3 cr)
CSS 462  Natural Resource Policy (3 cr)
CSS 487  Environmental Education (3 cr)
CSS 490  Wilderness and Protected Area Management (3 cr)
CSS 492  Ecotourism Principles and Issues (3 cr)
CSS 493  International Land Preservation and Conservation Systems (3 cr)
CSS 496  Monitoring Impacts in Protected Areas and Wilderness (3 cr)
CSS 498  Internship (3-6 cr)
Geog 313  Global Climate Change (3 cr)
Geog 360  Population Dynamics and Distribution (3-4 cr)
Geog 455  Societal Resilience and Adaptation to Climate Change (3 cr)
Hist 423  Idaho and the Pacific Northwest (3 cr)
Hist 424  American Environmental History (3 cr)
Jamm 350  Public Relations Writing and Production (3 cr)
Jamm 444  Mass Media and Public Opinion (3 cr)
Phil 452  Environmental Philosophy (3 cr)
PoIS 451  Public Administration (3 cr)
PoIS 453  Public Management Techniques (3 cr)
PoIS 454  Public Organization Theory (3 cr)
PoIS 473  Sustainable Community Development Planning (3 cr)
PoIS 480  Politics of Development (3 cr)
Psyc 320  Introduction to Social Psychology (3 cr)
Psyc 325  Cognitive Psychology (3 cr)
Soc 313  Collective Behavior (3 cr)
Soc 343  Political Sociology (3 cr)

Courses to total 120 credits for this degree

B. Conservation Science Emphasis

To graduate a student must earn an average GPA of 2.00 or higher in all courses taught in the College of Natural Resources and complete an approved professional work experience in natural resources.

CSS 310  Social Research Methods in Conservation (4 cr)

One of the following (4 cr):
Biol 115  Cells and the Evolution of Life (4 cr)
Biol 116  Organisms and Environments (4 cr)

One of the following (4 cr):
Chem 101  Introduction to Chem I (4 cr)
Chem 111  Principles of Chem I (4 cr)

One of the following (4 cr):
CSS 364  Politics of the Environment (3 cr)
CSS 462  Natural Resource Policy (3 cr)

One of the following (4 cr):
CSS 385  Conservation Management and Planning I (4 cr)
CSS 475  Conservation Management and Planning II (4 cr)
CSS 490  Wilderness and Protected Area Management (3 cr)

Natural Resource Science Restricted Electives (33 cr), at least 15 cr must be at the 400-level:
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish 314</td>
<td>Fish Ecology (3 cr)</td>
</tr>
<tr>
<td>Fish 315</td>
<td>Fish Ecology Lab (1 cr)</td>
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<tr>
<td>Fish 316</td>
<td>Principles of Population Dynamics (2 cr)</td>
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<tr>
<td>Fish 415</td>
<td>Limnology (4 cr)</td>
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<tr>
<td>Fish 418</td>
<td>Fisheries Management (4 cr)</td>
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<tr>
<td>Fish 422</td>
<td>Concepts in Aquaculture (3 cr)</td>
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<tr>
<td>Fish 424</td>
<td>Fish Health Management (4 cr)</td>
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<td>Fish 430</td>
<td>Riparian Ecology and Management (3 cr)</td>
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<tr>
<td>Fish 415</td>
<td>Limnology (4 cr)</td>
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<tr>
<td>Fish 436</td>
<td>Fire Ecology and Management (3 cr)</td>
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<td>Fish 433</td>
<td>Fire and Fuel Modeling (2 cr)</td>
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<tr>
<td>Fish 450</td>
<td>Fire Behavior (2 cr)</td>
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<tr>
<td>Fish 454</td>
<td>Air Quality and Smoke Management (3 cr)</td>
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<tr>
<td>For 320</td>
<td>Dendrology (4 cr)</td>
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<tr>
<td>For 324</td>
<td>Forest Regeneration (3 cr)</td>
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<tr>
<td>For 330</td>
<td>Forest Soil and Canopy Processes (4 cr)</td>
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<tr>
<td>For 373</td>
<td>Forest Sampling Methods (2 cr)</td>
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<tr>
<td>For 424</td>
<td>Forest Dynamics and Management (4 cr)</td>
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<tr>
<td>For 425</td>
<td>Forest and Soil Nutrient Cycling (3 cr)</td>
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<td>For 430</td>
<td>Forest Operations (3 cr)</td>
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<tr>
<td>For 431</td>
<td>Low Volume Forest Roads (2 cr)</td>
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<tr>
<td>For 436</td>
<td>Cable Systems (2 cr)</td>
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<tr>
<td>For 462</td>
<td>Watershed Science and Management (3 cr)</td>
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<tr>
<td>For 468</td>
<td>Forest and Plant Pathology (2 cr)</td>
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<tr>
<td>For 472</td>
<td>Remote Sensing of the Environment (4 cr)</td>
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<td>RMat 321</td>
<td>Properties of Renewable Materials (3 cr)</td>
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<td>RMat 365</td>
<td>Wood Building Technology (3 cr)</td>
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<td>RMat 436</td>
<td>Biocomposites (3 cr)</td>
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<td>RMat 438</td>
<td>Introduction to Lignocellulosic Chemistry (1 cr)</td>
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<td>RMat 444</td>
<td>Primary Products Manufacturing (3 cr)</td>
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<td>RMat 450</td>
<td>Biomaterials Deterioration and Protection (2 cr)</td>
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<td>RMat 491</td>
<td>Biomaterial Product and Process Development Lab (2 cr)</td>
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<td>RMat 495</td>
<td>Product Development and Brand Management (3 cr)</td>
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<td>REM 341</td>
<td>Systematic Botany (3 cr)</td>
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<td>REM 410</td>
<td>Principles of Vegetation Measurement and Assessment (2 cr)</td>
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<td>REM 411</td>
<td>Rangeland Ecology Current Topics and Field Studies (1 cr)</td>
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<td>REM 440</td>
<td>Wildland Restoration Ecology (3 cr)</td>
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<td>REM 452</td>
<td>Western Wildland Landscapes (2 cr)</td>
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<td>REM 456</td>
<td>Integrated Rangeland Management (3 cr)</td>
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<td>REM 459</td>
<td>Rangeland Ecology (2 cr)</td>
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<tr>
<td>REM 460</td>
<td>Integrating GIS and Field Studies in Rangelands (2 cr)</td>
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<tr>
<td>REM 472</td>
<td>Remote Sensing of the Environment (3-4 cr)</td>
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<tr>
<td>WLF 314</td>
<td>Wildlife Ecology I (3 cr)</td>
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<td>WLF 315</td>
<td>Wildlife Ecology I Laboratory (1 cr)</td>
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<td>WLF 316</td>
<td>Wildlife Ecology II (4 cr)</td>
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<td>WLF 440</td>
<td>Conservation Biology (3 cr)</td>
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<td>WLF 448</td>
<td>Fish and Wildlife Population Ecology (4 cr)</td>
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<tr>
<td>WLF 482</td>
<td>Ornithology (4 cr)</td>
</tr>
<tr>
<td>WLF 492</td>
<td>Wildlife Management (4 cr)</td>
</tr>
</tbody>
</table>

**Courses to total 120 credits for this degree**

**UCC-15-052** College of Letters, Arts, and Social Sciences
Scott Slovic introduced the proposed split of the Writing Minor into the Professional Writing Minor and the Creative Writing Minor. Hearing no questions the motion to approve the proposal **passed unanimously** and will be forwarded to Faculty Senate for review.

**UCC-15-053** College of Letters, Arts, and Social Sciences
Scott Slovic introduced the proposed name change of the Professional Emphasis to Professional Writing Emphasis (B.A., major in English). The committee reviewed the proposed curriculum changes discussed in the memo and choose to delete that language from the memo with the understanding that a proper curriculum change request would be submitted by English to UCC for review. Hearing no further questions the motion to approve the proposal passed unanimously and will be forwarded to Faculty Senate for review.

The next UCC meeting will be December 1st, 2014. This meeting was adjourned at 4:48pm.

Charles Tibbals, UCC Secretary