


UCF Graduate Council

[Home](#) > [Curriculum](#) > [Minutes](#)

CURRICULUM COMMITTEE MINUTES

Minutes of October 07, 2015 meeting	
Members Present	Diane Andrews, Deborah Breiter, Steven Ebert, Charles Kelliher, Claire Knox, Elsie Olan, Andrea Pulido, Wanda Raimundi-Ortiz, Jennifer Sandoval, John Weishampel
Recorder	Rhonda Nelson
Guests Present	Danae Barulich, Andrew Randall, BooHyun Nam
Staff Members	Michele Pozdoll
Files	2015-10-07 Meeting Course Minutes 

Welcome and call to order. Dr. Deborah Breiter, chair, welcomed the committee and guests. A quorum was established. The minutes from the last meeting were reviewed and approved.

Revisions to the Structure and Geotech. Engr. Track in the MS Civil Engineering program, CECS. Andrew Randall and BooHyun Nam gave an overview of the requested changes. The request was to change CGN 5506 from an elective to a required course and also change this course from a C course with credit hours of 3(2,2) to no lab with credit hours of 3(3,0). Also, the course name of Asphalt Concrete Mix Design will be change to Advanced Pavement and Civil Engineering Materials. This received unanimous approval from the committee.

Program Recommendation Forms-add signature line for the Graduate Faculty Program Director. Discussion was held on adding an additional signature line for the program recommendation forms. This was an item that came from the College of Education and Human Performance. The issue was that some of the CEHP graduate program directors were not kept in the loop when a change was made to programs that were under their direction. Some committee members felt there were enough signature lines on the form already, some liked the idea of having the program director sign off on the form, and several questioned if it was problematic only for the CEHP. After further discussion, the committee approved the request to add an additional signature line to the form entitled Graduate Faculty Program Coordinator. Another suggestion added to this discussion was to consider electronic program recommendation forms in the future.

Lab fees with no details. The committee discussed what to do about lab fees that came through this committee (lab fees up for review that had not been taught for five or more years) that had no lab fee details. The committee questioned why the program wanted to keep a lab fee course on the course inventory if it had not been taught in a long time and no fee details were available. It was pointed out that fee details would have to be included if the course was taught again. The committee agreed to forward this item to the Policy Committee to review and decide if a statement regarding this should be added to the graduate catalog.

Course continuation for courses that have not been taught for 5 or more years. Discussion was held on this item. The committee indicated that before a course was brought to the committee that the course database should be checked to make sure a syllabus had been added to the database. If not, a course syllabus should be requested. The committee agreed to forward this to the Policy Committee to determine if a statement was needed for the graduate catalog.

Courses and special topics. To review a list of approved courses, please see the attached course minutes.

Adjournment. The meeting adjourned at 3:30 pm. The next meeting is scheduled for October 28.

Minutes Graduate Council Curriculum Committee
October 7, 2015
3:00 p.m., GSC conference room

Members Present: Deborah Breiter, Charles Kelliher, Claire Knox, Wanda Raimundi-Ortiz, Steven Ebert, Elsie Olan, Diane Andrews, Jennifer Sandoval, Andrea Pulido, John Weishampel

Staff Members: Michele Pozdoll

Guests present: Danae Barulich, Andrew Randall, Boohyun Nam

Recorder: Rhonda Nelson

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Course Minutes

October 7, 2015

All courses have been approved unless otherwise noted below. Any notations listed refer to the course below the notation.

1. Course Additions

College of Engineering and Computer Science Course Additions

CWR 6XXX	ECS-CECE	3(3,0)
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Ecohydraulics: PR: CWR 5634 OR Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology OR C.I. Sustainable and multi-objective management of rivers, shorelines and aquatic resources, this course investigates fundamental linkages between physical processes and ecological responses in engineered and natural systems. *Even Spring.*

Abbrev: (13 of 30 chars) Ecohydraulics

Discussion with others: I have discussed this prospective course and its content with the Chair and faculty of the Biology department, as well as Water Resources faculty in CECE in order to detect possible duplication of content with existing courses. The content of the proposed course is not covered in any other course currently taught at UCF.

Rationale: Coupled physical-ecological processes operating at multiple scales influence the engineering of water resources. Sustainable engineering design pertaining to water must therefore account for the interaction of physical and biological variables. There currently is no course offered, within CECE or at the University, that integrates content between river or coastal engineering with biological sciences.

Majors taking course: CECE, BIOL

EML 5XXX	ECS-MECH/AERO	3(3,0)
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Smart and Adaptive Structures: PR: (EAS 4200 or EML 3500) and EML 4225 and (EGN 3365 or EMA 3706) or C.I. Modeling and design of structures with integrated active materials: piezoelectric ceramics and polymers, shape memory alloys and polymers, magneto- / electro-rheological fluids, magneto- / electro-strictives. Multi-stable structures. *Even Spring.*

Abbrev: (29 of 30 chars) Smart and Adaptive Structures

Discussion with others: Discussed with Materials Science with no objections indicated.

Rationale: Course topic is instructor's research specialty. The course will cover a relatively new field in engineering (2 decades old) that is not covered in current curriculum.

2. Special Topics Additions

College of Engineering and Computer Science Special Topics Additions

Tabled at April 20, 2015 meeting. Further discussion needed with Statistics Department.

ESI 6938 **ECS-IEMS** **3(3,0)**

Optimization and Data Mining: PR: ESI 5306 or ESI 6418. Optimization modeling is widely used in operations research for a variety of applications such as scheduling, resource allocation, planning of facilities etc. In this course we will demonstrate another use of optimization, that of analyzing data. Basic optimization theory and popular data analysis algorithms from an optimization point of view. *Occasional*.

Abbrev: (23 of 30 chars) DM Apps of Optimization

Discussion with others: Comments were requested from Computer Science ("CS has no objections to this course" email from Dr. Gary Leavens, 3/30/2015 8:47 am) and Statistics.

EML 5937 **ECS-MECH/AERO** **3(3,0)**

Smart and Adaptive Structures: PR: (EAS 4200 or EML 3500) and EML 4225 and (EGN 3365 or EMA 3706) or C.I. Modeling and design of structures with integrated active materials: piezoelectric ceramics and polymers, shape memory alloys and polymer, magneto- / electro-rheological fluids, magneto- / electro-strictives. Multi-stable structures. *Occasional*.

Abbrev: (29 of 30 chars) Smart and Adaptive Structures

Discussion with others: Discussed with Materials Science with no objections indicated.

3. Course Revisions

College of Engineering and Computer Science Course Revisions

CGN 5506C **Asphalt Concrete Mix Design** **3(2,2)**

Advanced Pavement and Civil Engineering Materials **3(3,0)**

CGN 5506

PR: CGN 3501C, CEG 4011C.

Properties Pavement and civil engineering materials such as aggregate, Portland cement, and concrete. In addition, mechanics, modeling, analysis, and design of asphalt, aggregate and asphalt mixtures, Marshall mix design, Hveem mix design, pavement rehabilitation. those materials will be included.

Abbrev (27 of 30): ~~Asphalt Concrete Mix Design Adv Pavement & CE Materials~~

Discussion with others: No other departments currently offer graduate courses related to pavement and civil engineering materials. This course is unique at UCF. Thus, no duplication and no conflict are expected

Rationale: The current course name only describes the mixing procedure of asphalt concrete. However, understanding of aggregate and asphalt binder materials are prerequisite. The mixing design only takes 1/3 semester. Furthermore, asphalt concrete mixing is too specific and its benefit is limited to highway agency employees and related engineers. Understanding of mechanics, characterization, and modeling of other pavement/civil eng. materials is much beneficial to graduate students and critical to their success after graduation. Most graduate students in CECE dept may take this course.

TTE 5835 **Pavement Design** **3(3,0)**
Pavement Engineering

PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, ~~or Certificate in~~ Conservation Biology, PSM in Conservation Biology, or C.I.

Conservation, propagation and exhibition of wild animals in captivity.

Rationale: Changing the prerequisites to include admission to the PSM in Conservation Biology. This will allow students in the program to be able to enroll in the courses required for their degree.

PCB 5326C Ecosystems of Florida 5(3,2)

PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, ~~or Certificate in~~ Conservation Biology, PSM In Conservation Biology, or C.I.

Ecosystems of Florida will be discussed to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation.

Rationale: Changing the prerequisites to include admission to the PSM in Conservation Biology. This will allow students in the program to be able to enroll in the courses required for their degree.

Majors taking course: Conservation Biology PSM

PCB 5935 Population Genetics 3(3,0)

PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, ~~or Certificate in~~ Conservation Biology, PSM in Conservation Biology, or C.I.

Population genetics and the study of the various forces that result in evolutionary changes through time.

Term Offered: ~~Odd Spring~~ Fall

Rationale: Changing the prerequisites to include admission to the PSM in Conservation Biology. This will allow students in the program to be able to enroll in the courses required for their degree.

Majors taking course: Conservation Biology PSM

PCB 6053C Restoration Ecology 4(2,4)

PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, ~~or Certificate in~~ Conservation Biology, PSM in Conservation Biology, or C.I.

Survey of the general ecological principles that guide restoration ecology: the process of assisting the recovery of degraded, damaged or destroyed ecosystems.

Term Offered: ~~Occasional~~ Spring

Discussion with others: No conflicts- existing course.

Rationale: Changing the prerequisites to include admission to the PSM in Conservation Biology. This will allow students in the program to be able to enroll in the courses required for their degree.

PCB 6466 Methods in Experimental Ecology 3(3,0)

PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, ~~or Certificate in~~ Conservation Biology, PSM in Conservation Biology, or ~~C.I.~~ C.I.

An introduction to methods of population ecology. Experimental design, statistics, experimental variables and treatments and measurements of organisms and the environment.

Term Offered: ~~Occasional~~ Fall

Discussion with others: No conflicts- existing course.

Rationale: Changing the prerequisites to include admission to the PSM in Conservation Biology. This will allow students in the program to be able to enroll in the courses required for their degree.

PCB 6556 Conservation Genetics 3(3,0)

PR: Admission to the M.S. ~~in~~ In Biology, Ph.D. in Conservation Biology, ~~or Certificate in~~

Conservation Biology, PSM in Conservation Biology, or C.I.

Applications of genetic models to the understanding and conservation of animal and plant populations.

Term Offered: ~~Occasional~~ Even Spring

Discussion with others: No conflicts- existing course.

Rationale: Changing the prerequisites to include admission to the PSM in Conservation Biology. This will allow students in the program to be able to enroll in the courses required for their degree.

PCB 6675C **Evolutionary Biology** **4(3,2)**

PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, ~~or~~ Certificate in Conservation Biology, PSM in Conservation Biology, or C.I. Review of modern concepts and theories in evolutionary biology with emphasis on readings in the primary literature.

Term Offered: ~~Occasional~~ Odd Fall

Discussion with others: No conflicts- existing course.

Rationale: Changing the prerequisites to include admission to the PSM in Conservation Biology. This will allow students in the program to be able to enroll in the courses required for their degree.

PCB 6677 **Molecular Evolution & Phylogenetics** **3(3,0)**

PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, ~~or~~ Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

Advanced understanding of evolution at the molecular level based on phylogenetic analysis of changes in DNA, RNA and protein.

Term Offered: ~~Occasional~~ Even Fall

Rationale: Changing the prerequisites to include admission to the PSM in Conservation Biology. This will allow students in the program to be able to enroll in the courses required for their degree.

ZOO 5456C **Ichthyology** **4(2,6)**

PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, ~~or~~ Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

Introduction to the biology of the fishes, their classification, evolution, and life histories.

Term Offered: ~~Occasional~~ Odd Fall

Discussion with others: No conflicts- existing course.

Rationale: Changing the prerequisites to include admission to the PSM in Conservation Biology. This will allow students in the program to be able to enroll in the courses required for their degree.

ZOO 5463C **Herpetology** **4(2,4)**

PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, ~~or~~ Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

Introduction to the biology of the amphibians and reptiles, their classification, evolution, and life histories.

Discussion with others: No conflicts- existing course.

Rationale: Changing the prerequisites to include admission to the PSM in Conservation Biology. This will allow students in the program to be able to enroll in the courses required for their degree.

ZOO 5475L **Field Ornithology** **3(0,6)**

PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, ~~or~~ Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

Introduction to the identification, taxonomy, natural history, and biology of birds, with emphasis on survey techniques and systematics.

Term Offered: ~~Occasional~~ Even Fall

Discussion with others: No conflicts- existing course.

Rationale: Changing the prerequisites to include admission to the PSM in Conservation Biology. This will allow students in the program to be able to enroll in the courses required for their degree.

4. Course Deletions

College of Nursing Course Deletions

NGR 5745 **CON-NURS** **1(1,0)**
Professional Obligations and Activities of Advanced Practice Nursing PR: NGR 5883 and NGR 5891. Student must be in last or second to last semester of program. Examine professional obligations of advanced practice nursing. Opportunity to develop skills for taking certification exam.
Rationale: Course no longer taught.

NGR 5883 **CON-NURS** **1(1,0)**
Cultural, Legal, Ethical, and Political Issues of Advanced Practice Nursing PR: Admission to MSN program or C.I. Examine legal, ethical and political issues related to advanced practice nursing.
Rationale: Course no longer taught

NGR 5891 **CON-NURS** **1(1,0)**
Health Care Systems, Policy and Health Professionals PR: Admission to the MSN program or C.I. Examine social responses to health and illness, health care systems and policies and the role of advanced practice nurses.
Rationale: Course no longer taught

NGR 6331 **CON-NURS** **2(2,0)**
Pediatrics I for APNs PR: Admission to M.S. in Nursing program, Nursing certificate, or track, NGR 5003, NGR 5003L, NGR 5141. PR or CR: NR 6172. CR: NGR 6331L (for Pediatric Nurse Practitioner, Family Nurse Practitioner tracks). Evaluation, diagnosis, and management of the primary care needs of children, their families and communities.
Rationale: No longer taught

NGR 6332 **CON-NURS** **3(3,0)**
Pediatrics II for APNs PR: Admission to MSN program or nursing certificate program, NGR 6331, NGR 6331L (for FNP and PNP tracks). CR: NGR 6332L (for PNP track). Foundation for the

evaluation, diagnosis, and management of the complex health needs of children and their families.

Rationale: No longer taught.

There are no programs that list NGR 6332.

College of Sciences Course Deletions

PCB 5665C **COS-BIOL** **4(3,2) Human**

Genetics PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Human Genetics provides a theoretical framework for understanding the biology of the human species.

Discussion with others: n/a

Rationale: Not offered in 5-years

PCB 6107C **COS-BIOL** **4(3,2)**

Advanced Cell Biology PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Review of selected topics in cell biology with emphasis on current research in areas of membrane structure, protein targeting, cytoskeleton, signalling and cell cycle.

Discussion with others: n/a

Rationale: Not offered in 5-years

PCB 6108 **COS-BIOL** **4(4,0)**

Concepts in Plant Cell Biology PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Survey of current topics in plant cell biology, including cytoskeletal dynamics, cell signaling, cell cycle regulation, protein targeting and organelle structure and function.

Discussion with others: n/a

Rationale: Not offered in 5-years/

PCB 6256C **COS-BIOL** **4(3,2)**

Advanced Developmental Biology PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Lecture and literature review of emerging areas in plant and animal developmental biology.

Discussion with others: n/a

Rationale: Not offered in 5-years.

PCB 6936 **COS-BIOL** **1(1,0)**

Current Research in Marine Vertebrate Ecology PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, and C.I. Current research in the area of marine vertebrate ecology : readings, presentations and discussions. Graded S/U. May be used in the degree program a maximum of 5 times.

Discussion with others: n/a

Rationale: Not offered in 5-years

CHS 6508 **COS-CHEM** **3(3,0)**
Advanced Mass Spectrometry for Forensic Science PR: C.I. Principles and data analysis of quadrupole mass filters and chemical manipulations of ions stored in quadrupolar trapping fields.
Discussion with others: n/a
Rationale: Not offered in 5-years

SYA 6656 **COS-SOC** **3(3,0) Social**
Organization and Human Resources PR: C.I. Complex organization theory, social systems analysis, competence in group dynamic skills, and use of human resources in agencies, businesses, and industries.
Discussion with others: n/a
Rationale: Not offered in 5-years

5. Course Continuations

College of Medicine Course Continuations

MCB 6273 **COM-BSBS** **2(2,0)**
Adv. Topics in Infectious Processes PR: Graduate standing. Data presentations from the primary literature and from the student's original research will focus on the molecular mechanisms of host-pathogen interactions.
Rationale: Program is developing new MS tracks in Neuroscience, Cancer, Infectious Disease, and Cardiovascular/Metabolism. As such, we are considering re-activation of one or more of our existing but currently inactive courses for this, and thus request that they remain valid courses for now.

PCB 5275 **COM-BSBS** **3(3,0)**
Signal Transduction Mechanics PR: PCB 3522 and PCB 4524. A course emphasizing various signal transduction cascades used in mammalian cells to control growth and differentiation. Discussion of original research papers will occur.
Rationale: Program is developing new MS tracks in Neuroscience, Cancer, Infectious Disease, and Cardiovascular/Metabolism. As such, we are considering re-activation of one or more of our existing but currently inactive courses for this, and thus request that they remain valid courses for now.

College of Sciences Course Continuations

PCB 6365 **COS-BIOL** **3(3,0)**
Environmental Physiology PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. The effects of major environmental factors on the physiology of plants and animals.
Rationale: Will offer in coming semesters with new faculty hires.

PCB 6727 **COS-BIOL** **3(3,0)**

Comparative Animal Physiology PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Comparison of structural and functional adaptations of animal organ systems. Emphasis upon maximization of fitness under given environmental conditions.

Rationale: Will offer in coming semesters with recent new faculty hires.

ZOO 5486

COS-BIOL

4(4,0)

Mammalogy PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Study of the diversity and biology of mammals from an evolutionary perspective.

Rationale: will offer in coming semesters with recent new faculty hires.

CLP 5187

COS-PSYCH

3(3,0) Mental

Health and Aging PR: Graduate status or senior standing or C.I. Introduction to assessment and intervention issues, practice and research related to problems with cognitive and emotional functioning among older adults. May be repeated for credit.

Rationale: Department planning on offering course as part of cluster hires.

SYD 5517

COS-SOC

3(3,0)

Environment and Society PR: Graduate standing or C.I. The application of sociological theory and methods to the relationships between communities, societies, and the environment

Rationale: Continue - possible environment concentration addition in the future.