

Minutes
Graduate Council Curriculum Committee
September 6, 2017
2:30 p.m., Millican Hall 395E

Members Present: Charles Kelliher, Kerry Purmensky, Joshua Troche, Art Weeks, Steven Ebert, Elsie Olan, Diane Andrews, Cheyenne Ro, Mercedeh Khajavikhan

Administrators and Guests Present: Devon Jensen, Taylor Ellis, Jesse Mendez, Andrew Randall, Liqiang Wang, Kalpathy Sundaram, Treen Huo

Staff Members: Brandy Pieper

Recorder: Emily Stettner

Welcome and call to order. Dr. Charles Kelliher, chair, called the meeting to order at 2:35p.m. and welcomed the committee and guests. A quorum was established. Dr. Kelliher reviewed the responsibilities of this committee.

Announcements. Dr. Jensen announced that UCF is in the process of implementing a University-wide curriculum and catalog management system from DigArc. The system will allow for enhanced record keeping and streamlining between the curriculum and catalog processes. The graduate curricular processes were mapped during the summer and the Implementation Team is currently working with DigArc.

Proxy voting. Proxy voting was discussed. The members were generally opposed to having proxy votes and voted against this procedure. Members may join the meeting via teleconference if they are not available to come to the meeting in person.

Addition of Non-Thesis track in the CGS Nanotechnology MS program effective Spring 2018. Dr. Huo gave an overview of the Nanotechnology MS program non-thesis track. The intent of the track is to substitute for the proposed inactivation of the Nanotechnology PSM. The new track received unanimous approval.

Inactivation of the CGS Nanotechnology PSM program effective Spring 2018. Dr. Huo explained that the program includes the Technology Venture certificate from the College of Business Administration; however, the College of Business Administration has discontinued the certificate and these courses are no longer offered. The PSM program will be replaced by the Nanotechnology MS- non-thesis track program. A teach-out plan is available for these students. The inactivation received unanimous approval.

Inactivation of the CGS Conservation Biology PSM program effective Fall 2017. The program was originally suspended starting Summer 2017; however, additional students were admitted for Fall 2017, so the suspension effective term is being changed to Fall 2017. A teach-out plan is available for these students. The inactivation received unanimous approval.

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

Adjournment. The meeting adjourned at 3:18p.m. The next meeting is scheduled for September 20, 2017.

Course Minutes- September 6, 2017

All courses have been approved unless otherwise noted.

1. Course Additions

College of Engineering and Computer Science Course Additions

CWR 5XXX	ECS-CECE	3(3,0)
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Coastal Systems Analysis: PR: One or more: CWR 4120, CWR 4633C, GLY 4xxx (Mar. Geol.), OCE 3008, or C.I. Coastal features; drivers of coastal flooding; climate variability and change; numerical and statistical modeling of extremes; coastal flood risk, management and adaptation. *Even Fall.*

Abbrev: (24 of 30 chars) Coastal Systems Analysis

Discussion with others: Dr. Worthy of Biology and Dr. Mucciolo of Physics were contacted and indicated no concerns.

Rationale: The instructor has joined UCF as a core faculty member of the Sustainable Coastal Systems Cluster and this new course makes a start in developing coastal curriculum that doesn't currently exist in CECE and other departments at UCF. The topics covered are related to the instructor's research activities. Similar courses exist at other schools with Civil Engineering and/or coastal programs in the U.S. and overseas (where the instructor has been involved in teaching similar courses in Germany and UK).

COP 5XXX	ECS-CS	3(3,0)
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High Performance Computing and Programming: PR: COP 3503C or C.I. Basic hardware and software knowledge and essential programming skills for high-performance computing (HPC) including GPU computing and big data computing. *Fall.*

Abbrev: (30 of 30 chars) High Performance Comput & Prog

Discussion with others: Mathematics and IEMS had no objections and were supportive of this course. ECE suggested some more focus on programming, which has been incorporated into the syllabus and the title.

Rationale: High-performance computing plays a critical role in almost every field of science and engineering. There is a high demand from science and engineering majors to train graduate students to use the cutting-edge HPC techniques to enhance their own research and future careers. The course will also instruct students on how to use UCF Advanced Research Computing Center's resources (such as Stokes) and public cloud computing (such as Amazon EC2).

EEL 6XXX	ECS-ECE	3(3,0)
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Data Analytics in Power Systems: PR: EEL 5255. Data analytical methods in power systems. Students will learn statistical and machine learning data analytical methods, and their applications in power systems and smart grids. *Fall.*

Abbrev: (27 of 30 chars) Data Analy in Power Systems

Discussion with others: Computer Science, Industrial Engineering, Statistics and Math were contacted without any concerns noted.

Rationale: This course is a core course in the graduate-level power system course catalog. It introduces major data analytical methods in power systems. Students will learn key skill sets to be applied in the power system industry or research.

EEL 6XXX

ECS-ECE

3(3,0)

Power Systems Reliability: PR: EEL 4216. Advanced course to power systems engineering, designed to provide a student with comprehensive understanding of quantitative reliability evaluation of modern power systems. *Even Fall.*

Abbrev: (25 of 30 chars) Power Systems Reliability

Rationale: This is a new 6000 level graduate course. It completes the curriculum in advanced analysis of power systems for graduate students interested in power area. It will be co-shared with partner universities in the FEEDER project.

2. Special Topics Additions

3. Course Revisions

College of Education and Human Performance Course Revisions

EDF 6401

Statistics for Educational Data

3(3,0)

PR: EDF 6481 or COM 6304 or C.I.

Design of educational evaluation; analysis of data, descriptive and inferential statistics, interpretation of results.

There are no programs that list EDF 6401.

College of Nursing Course Revisions

NGR 6945L

Clinical Specialty Practicum

1(0,1)

PR: NGR 5141 ~~Pathophysiology~~; Pathophysiology; ~~NGR 5003 & 5003L~~ ~~Advanced Health Assessment~~ 5190 Core Clinical Concepts for Nurse Educators or C.I.

Supervised clinical practice activities related to nursing care of common health problems of specific patient population. Graded S/U. May be used in the degree program a maximum of 2 times.

Discussion with others: Not applicable

Rationale: The curriculum was revised in spring 2017. The current pre-requisite listed, NGR 5003 and NGR 5003L are no longer part of the curriculum. NGR 5190 is now the required course which include content from those courses, as well as some pharmacology content.

Majors taking course: MSN Nurse Educator

There are no programs that list NGR 6945L.

College of Optics and Photonics Course Revisions

OSE 6143 Fiber Optics Communication **3(3,0)**

Fiber Optics Communication System PR:

~~Graduate standing~~ GS, and OSE 6432 6111 and OSE 6474, or C.I.

Use of fiber optics as a communication channel. Principles of fiber optics. Mode theory, transmitters, modulators, sensors detectors and demodulators.

Abbrev (20 of 30): ~~Fiber Optics Communication~~ **Fiber Optic Comm Sys** Term

Offered: ~~Occasional~~ Spring

Rationale: This is a name change and pre-requisite update. The name change better reflects the course - there is no change to the course content being taught. The pre-requisite is changed due to course OSE 6432 that is no longer taught.

Majors taking course: elective course in Optics & Photonics

There are no programs that list OSE 6143.

OSE 6474 Optical Communications Systems **3(3,0)**

Fundamentals Optical Fiber Communications PR:

GS; OSE 5414, 6111, or C.I.

Introduces key principles and analysis of optical communication systems. Emphasis on developing the ability to analyze and design digital, analog fiber-based systems and networks.

Abbrev (23 of 30): ~~Optical Communication Sys~~ **Fund Optical Fiber Comm**

Discussion with others: Submitted to EE and PHY for their review: EE: Approved by Kalpathy Sundaram (copy of approval email sent separately; attached) PHY: Approved by Eduardo Mucciolo (copy of approval email sent separately; attached)

Rationale: This CAR is a name change to better reflect the focus of the course. The course content was slightly changed to prepare the student for the OSE 6143 Fiber Optics Communication Systems class. The pre-requisite is changed to remove OSE 5414 and add OSE 6111 which is a better preparatory class.

Majors taking course: elective in Optics and Photonics There are no programs that list OSE 6474.

4. Course Deletions

5. Course Continuations