

UCF Graduate Council

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CURRICULUM COMMITTEE MINUTES

Minutes of September 21, 2016 meeting

Members Present	Diane Andrews, Steven Ebert, Charles Kelliher, Elsie Olan, Kerry Purmensky, Jennifer Sandoval, Terrie Sypolt, Asli Tasci, Joshua Troche, Art Weeks, John Weishampel
Recorder	Debra Winter
Guests Present	Martin Klapheke, Derek Green, Sabrina Gordon, Karen Baxley, Saleh Naser, Jana Jasinski, C. Keith Harrison, Qun Huo, Pam Cavanaugh
Staff Members	Michelle Pozdell
Files	2016-09-21 Meeting Course Minutes 

Welcome and call to order. Dr. Kerry Purmensky, chair, welcomed the committee and guests. Dr. Purmensky reviewed the responsibilities of this committee.

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 three tracks in the COM Biomedical Sciences MS program effective Fall 2017: Cancer Biology track, Infectious Disease track, and Metabolic and Cardiovascular Science track. Dr. Saleh Naser gave an overview of the Biomedical Sciences MS program. Last year the Neuroscience track was approved, and this year the program is requesting approval of three additional tracks. All of the tracks use existing courses and the intent is to increase the number of students in the program. These new tracks received unanimous approval.

Addition of two previously approved COM BSBS split level courses. These courses were approved at the February 16, 2015 meeting, but they were not processed through the university courses database at that time. They are now being processed through the university courses database for state approval.

- ZOO 4605/5XXX Clinical Embryology and Congenital Malformations
- ZOO 4753C/5XXXC Vertebrate Histology

Revisions to the CECS Computer Forensics Certificate effective Spring 2017. This revision moves the certificate and the Out of State Cohort track from the Chemistry Department in the College of Sciences to the Computer Science Department in the College of Engineering and Computer Science. Both departments and colleges are in agreement on this move. The revision received unanimous approval.

Revisions to the CECS Computer Science MS, Accelerated BS to MS track, effective Spring 2017. This revision corrects the original classification of the program, which was set up in 2006-2007 as an undergraduate rather than a graduate program.

Revisions to the CGS Modeling and Simulation MS and PhD programs effective Fall 2017. Sabrina Gordon explained that the program is making revisions based on recommendations from external consultants during the seven-year review. The program is requesting two new courses and changes to the required courses and electives. The committee unanimously approved the program revisions and the two new courses.

Revisions to the CGS Nanotechnology MS program effective Fall 2017. Dr. Qun Huo stated that the program is not in compliance with the course requirements policy for master's programs because Directed Research cannot be counted as part of the 24 credit hours of formal course work. Therefore, the program is changing Directed Research to Independent Study. The revision received unanimous approval.

Suspension of the CGS Conservation Biology PSM program. Dr. John Weishampel explained that 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 Spring 2017. A teach-out plan is available for these students. The revision received unanimous approval.

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

The committee Tabled three new course requests from the Nanotechnology MS program and requested additional discussion with other departments.

- IDS 6XXX Principles and Techniques of Nanobiology – Needs discussion with the Mechanical and Aerospace Engineering Department (Biomedical Engineering program) and the Biology Department.
- IDS 6XXX Semiconductor Quantum Wells, Dots and Wires – Needs discussion with the Physics Department and the Electrical and Computer Engineering Department.

- IDS 6XXX Nanotechnology for Sustainable Agriculture – Needs discussion with the Chemistry Department.

The committee discussed the requirement for new course requests to describe the discussion with other colleges and departments in "Discussion with others" in the Course Action Request, as well as providing the documentation (e.g., letter, email). Dr. Weeks noted that UCF will have an increasing number of multidisciplinary courses and we need to decide how we will handle this; he also stated the policy committee should discuss this topic. The committee asked Debra Winter to look at the minutes last year and find the reference to this topic, so the committee can continue the discussion at a later meeting.

Adjournment. The meeting adjourned at 3:30 p.m. The next meeting is scheduled for October 5.

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IDS 6XXX **GRDST-INTERDIS** **3(3,0)**

Semiconductor Quantum Wells, Dots and Wires: PR: Admission to the PSM or MS in Nanotechnology or C.I. Introduction to low dimensional semiconductor devices based on quantum wells, dots and wires; approximate and numerical device modeling. *Fall*.

Abbrev: (30 of 30 chars) Semiconductor wells,dots&wires

Discussion with others: Course was discussed with Optics and Photonics and Dr. Hagan agreed that there was no overlap or conflict.

Rationale: Changing the special topic course to a permanent course to be offered as an elective in Professional Science Master's (PSM) and Master of Science degree programs in Nanotechnology.

Majors taking course: PSM and MS programs in Nanotechnology

Tabled 9/21/2016. Needs discussion with the Chemistry Department.

IDS 6XXX **GRDST-INTERDIS** **3(3,0)**

Nanotechnology for Sustainable Agriculture: PR: Admission to the PSM or MS in Nanotechnology or C.I. Prepares a new generation of STEM students who are equipped with necessary knowledge to adapt sustainable agricultural practices. *Fall*.

Abbrev: (30 of 30 chars) Nanotech for Sustainable Agric

Discussion with others: No conflict has been identified. This course is offered to students willing to pursue higher studies in agriculture (crop protection, horticulture, food science) or willing to work with agro-chemical industries. Traditional chemists or materials scientists are not adequately trained to join agricultural industries as they have limited exposure and knowledge in the field.

Rationale: No such course available at UCF to prepare students for agro-chemical job market.

Majors taking course: Recommended for students in PSM and MS programs in Nanotechnology

Withdrawn 10/17/2016 by Nanotechnology due to duplicate CAR approved last year.

IDS 6XXX **GRDST-INTERDIS** **3(3,0)**

Advanced Materials and Nanotechnology for Rechargeable Batteries: PR: Admission to the PSM or MS in Nanotechnology or C.I. Builds a bridge between nano materials and electrochemical energy storage performance and demonstrates renewable energy storage on the nanoscale. *Spring*.

Abbrev: (29 of 30 chars) Adv Mat Nanotech Recharg Batt

Discussion with others: Dr. Yang contacted the Electrical Engineering department. He received response from Dr. Qu and Dr. Sundaram that this course does not overlap with any EEE or EEL courses.

Rationale: Changing the special topic course to a permanent course to be offered as an elective in Professional Science Master's (PSM) and Master of Science degree programs in Nanotechnology.

Majors taking course: PSM and MS in Nanotechnology

IDS 6XXX **GRDST-INTERDIS** **3(3,0)**

Introduction to Electrochemical Energy Conversion and Storage: PR: Admission to the PSM or MS in Nanotechnology or C.I. Topics in nanotechnology, materials science and electrochemistry concerning renewable energy generation and storage. Electrochemical systems and their applications in renewable energy generation and storage. *Fall*.

Abbrev: (30 of 30 chars) Intro to Elec Ener Conv & Stor

Discussion with others: Dr. Yang contacted the Electrical Engineering department and provided a syllabus for the new course. He received response from Dr. Kalthpathy Sundaram that there is no overlap with any EEE or EEL courses.

Rationale: Changing the special topic course to a permanent course to be offered as an elective in Professional Science Master's (PSM) and Master of Science degree programs in Nanotechnology.

Majors taking course: PSM and MS programs in Nanotechnology

IDS 6XXX

GRDST-INTERDIS

3(3,0)

Advanced Energy-Efficient Nanoelectronic Devices: PR: Admission to the PSM or MS in Nanotechnology or C.I. Discusses low power nanoelectronic devices that can meet the need of future electronics by using novel physical mechanisms of current conduction. *Occasional.*

Abbrev: (26 of 30 chars) Adv Ener Eff Nanoelec Devs

Discussion with others: PHY 5704 Physics of Nanoelectronic Devices: Had thorough discussion with Professor Saiful Khondaker to avoid any overlap between the two courses. While PHY 5704 discusses the physics of several nanoelectronic devices, this course would focus on the design and working of the latest technology innovations for minimizing power consumption for future generation electronics.

Rationale: This course is a new elective course for the recently established Professional Science Master's (PSM) and Master of Science programs in Nanotechnology.

Majors taking course: PSM and MS programs in Nanotechnology

IDS 6XXX

GRDST-INTERDIS

3(3,0)

Properties of Materials at Nanoscale: PR: Admission to the PSM or MS in Nanotechnology or C.I. Aims to integrate multidisciplinary approaches covering materials science and nanosciences to understand how intrinsic properties of materials are governed by their structural variations at nanoscales. *Spring.*

Abbrev: (30 of 30 chars) Prop of Materials at Nanoscale

Rationale: As the development of new nanomaterials and their application to emerging technologies are progressively changing our daily life, it is very important for students to acquire a basic understanding and knowledge of how/why materials behave differently at nanoscales. This newly developed course aims to integrate multidisciplinary approaches covering materials science and nanosciences to understand how the intrinsic properties of materials are governed by their structural variations, a subject that has not been covered by any existing courses offered from outside the department.

Majors taking course: PSM and MS programs in Nanotechnology, Materials Science

College of Medicine Course Additions

This is a Split Class. This course was previously approved 2/16/2015, but was not processed through the university courses database at that time. It is now being processed through the university courses database for state approval.

ZOO 5XXX

COM-BSBS

3(3,0)

Clinical Embryology and Congenital Malformations: PR: ZOO 3733C or equivalent.

Functional human embryology in a clinically oriented way to study the human development

and congenital malformations as a result of genetic, environmental and toxic conditions.
Spring, Summer.

Abbrev: (28 of 30 chars) Clinical Embryology Cong Mal

Rationale: ZOO 4605 Clinical Embryology and Congenital Malformations is an advanced course currently only offered to undergraduate students. We propose to add a graduate section to this course so that it may be included as one of the key elective courses available to students in a new "Integrated Medical Sciences" ("IMS") track that we are developing in our Biomedical Sciences MS (nonthesis) Program. The IMS track is being developed to provide students with an opportunity to enhance their knowledge and skills in preparation for careers in the health sciences professions. Students accepted into this program will take a combination of first-year medical school courses together with graduate courses in biomedical sciences.

Majors taking course: Neuroscience M.S.

This is a Split Class. This course was previously approved 2/16/2015, but was not processed through the university courses database at that time. It is now being processed through the university courses database for state approval.

ZOO 5XXXC

COM-BSBS

4(3,3)

Vertebrate Histology: PR: Graduate standing and college-level Human Anatomy, Human Physiology or Introduction to Histology. Microanatomical detail plus appropriate developmental and functional considerations of major cell types, primary tissues, organs, and organ systems. Survey of modern animal-tissue microtechnique. *Spring.*

Abbrev: (20 of 30 chars) Vertebrate Histology

Rationale: ZOO4753C Vertebrate Histology is an advanced course currently only offered to undergraduate students. We propose to add a graduate section to this course so that it may be included as one of the key elective courses available to students in a new "Integrated Medical Sciences" ("IMS") track that we are developing in our Biomedical Sciences MS (non-thesis) Program. The IMS track is being developed to provide students with an opportunity to enhance their knowledge and skills in preparation for careers in the health sciences professions. Students accepted into this program will take a combination of first-year medical school courses together with graduate courses in biomedical sciences.

Majors taking course: Biomed MS and tracks

MDE 8XXX

COM-MED

6(6,0)

Elective in Gynecology: PR: Completion of the M3 year. The Gynecology elective is available to

4th year medical students to acquire a comprehensive experience with commonly treated gynecologic issues for women. The experience will include performing inpatient and emergency gynecologic consultations, attending outpatient clinics, assisting in the operating room with gynecologic cases and participating in following gynecologic patients with breast disorders in the breast clinic. *Spring, Summer, Fall.*

Abbrev: (22 of 30 chars) Elective in Gynecology

Majors taking course: None

MDE 8XXX

COM-MED

6(6,0)

Obstetrics and Gynecology Ambulatory Elective: PR: Completion of the M3 year. The Ob/Gyn Ambulatory elective is available to 4th year medical students to acquire a comprehensive experience in obstetrics and gynecology. The experience will be both

outpatient and inpatient and include participation in all aspects of care for women. The student will participate in obstetric and gynecologic consultations, attending outpatient clinics, assisting in the operating room with obstetric and gynecologic cases, and participating in pre-op and post-op care. *Spring, Summer, Fall.*

Abbrev: (26 of 30 chars) Ob/Gyn Ambulatory Elective

Majors taking course: none

MDE 8XXX **COM-MED** **6(6,0)**

Pediatric Anesthesia Elective: PR: Completion of the M3 year. This two- or four-week elective rotation, open to fourth year medical students, will provide a broad learning experience in pediatric anesthesiology. *Spring, Summer, Fall.*

Abbrev: (24 of 30 chars) Peds Anesthesia Elective

Majors taking course: none

MDE 8XXX **COM-MED** **6(6,0)**

Otolaryngology - Head and Neck Surgery Elective: PR: Completion of the M3 year. This elective rotation is led by internationally respected surgeons skilled in Otologic/Neurotologic head and neck surgery. Students work with 5 surgeons to learn the basics of Oto-HNS surgery. *Spring, Summer, Fall.*

Abbrev: (24 of 30 chars) Oto-HNS Surgery Elective

Majors taking course: None

MDE 8XXX **COM-MED** **6(6,0)**

Pediatric/Adolescent Gynecology Elective: PR: Completion of the M3 year. The pediatric and adolescent gynecology elective is designed to expose medical students to the full spectrum of gynecologic services for the pediatric and adolescent population while remaining within a developmentally appropriate, supportive environment. Students will also participate in the surgical management of endometriosis and ovarian cysts. *Spring, Summer, Fall.*

Abbrev: (28 of 30 chars) Peds/Adolescent Gyn Elective

Majors taking course: None

MDI 8XXX **COM-MED** **6(6,0)**

Acting Internship in Clinical Neurological Ophthalmology: PR: Completion of the M3 year. An eye clinic based experience where students will master ophthalmoscopy, ophthalmic examination skills, and participate in general and specialty eye surgery and clinics. *Spring, Summer, Fall.*

Abbrev: (28 of 30 chars) AI in Clinical Neuro Ophthal

Majors taking course: None

MDI 8XXX **COM-MED** **6(6,0)**

Acting Internship in Consultation Liaison Psychiatry : PR: Completion of the M3 year. As acting interns, M4 students will be given progressive clinical responsibilities in the assessment and treatment of patients hospitalized on medical and surgical wards at the Lake Nona Orlando V.A. Medical Center that have concomitant psychiatric conditions. *Spring, Summer, Fall.* **Abbrev: (29 of 30 chars)** AI in Consultation Psychiatry

Majors taking course: None

CWR 5515 Numerical Methods in Civil and Environmental Engineering 3(3,0)

PR: CWR 4633C 4202C or C.I.

This course will present intermediate to advanced numerical methods theory and include code development and error assessment, while targeting civil and environmental engineering applications.

Rationale: Only prerequisites changing due to changes in undergraduate curriculum. Nothing else is changing.

CWR 5634 Water Resources in a Changing Environment 3(3,0)

PR: CWR 4632C 4120.

To model and understand potential impact of climate change and human activities on hydrologic systems and various spatial and temporal scales.

Rationale: Only prerequisites changing due to changes in undergraduate curriculum. Nothing else is changing.

CWR 6102 Advanced Hydrology 3(3,0)

PR: CWR 4633C 4120C or C.I.

Single site and regional frequency analysis; modeling hydrologic systems; lumped and distributed event models for urban and natural drainage basins; continuous simulation; real-time forecasting.

Rationale: Only prerequisites changing due to changes in undergraduate curriculum. Nothing else is changing.

CWR 6535 Modeling Water Resources Systems 3(3,0)

PR: CWR 4633C 4120 or C.I.

Contemporary mathematical models for water quality and quantity considerations including computer-based hydraulic and hydrologic models.

Rationale: Only prerequisites changing due to changes in undergraduate curriculum. Nothing else is changing.

College of Nursing Course Revisions

NGR 5003L	Advanced Health Assessment and Diagnostic Reasoning (Lab) Advanced Health Assessment and Diagnostic Reasoning Lab	1(0,1)
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PR: or CR: NGR 5141; CR: NGR 5003. Admission to the M.S. in Nursing or Doctor of Nursing Practice tracks or C.I.

Application of concepts and skills for advanced health assessment and diagnostic reasoning over the ~~lifespan~~ Graded S/U ~~lifespan~~. May be used in the degree program a maximum of 2 times. Graded SU: ~~Yes~~ No

Rationale: Students are not submitting work of the highest quality possible. Letter grade will improve the quality of work students submit.

There is 1 program that lists NGR 5003L: Nursing - R.N. to M.S.N. Option (B.S.N./M.S.N.)

4. Course Deletions

College of Business Administration Course Deletions

BUL 5810 **BA-ACCT** **3(3,0)**

Legal and Social Environment of Business PR: Admission to graduate program. Analysis of the legal and ethical environment of business, the effects of legislation and regulation on business activity, and the role of law and ethics in the decision-making process.

Discussion with others: No conflicts

Rationale: This course has not been taught in 5 years.

TAX 6205 **BA-ACCT** **3(3,0)**

Partnership Taxation PR: TAX 4001 and graduate standing. Federal taxation relating to partnership income including formation, distribution, and retirements.

Rationale: This course has not been taught for 5 years.

TAX 6505 **BA-ACCT** **3(3,0)**

International Taxation PR: TAX 4001 and graduate standing. Study of federal tax issues related to international transactions affecting U.S. and foreign taxpayers.

Rationale: The course has not been taught in 5 years.

College of Engineering and Computer Science Course Deletions

ENV 6055 **ECS-CECE** **3(3,0)**

Fate and Transport of Subsurface Contaminants PR: EES 4111C, EES 4202C, CWR 5125. Principal concepts and modeling of the physical, chemical, and biological transport and transformation processes for subsurface contaminants.

Rationale: The department no longer plan to offer this course.

ENV 6504L **ECS-CECE** **3(1,6)**

Unit Operation and Processes Laboratory PR: ENV 6015 or equivalent. Bench and small pilot plant experimentation with sedimentation, coagulation, sorption gas-stripping, oxidation ion-exchange, etc. in water, waste-water industrial waste, or hazardous waste treatment.

Rationale: The department no longer plan to offer this course.

