

UCF Graduate Council

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CURRICULUM COMMITTEE MINUTES

Minutes of September 29, 2014 meeting

Members Present Deborah Breiter, Paul Dombrowski, Steven Ebert, Linda Gibson-Young, Jana Jasinski, Joyce Nutta, Art Weeks

Recorder Rhonda Nelson

Guests Present Richard Hartshorne, Paul Wiegand, Arlen Chase

Staff Members Debra Winter, Barbara Rodriguez

Files [2014-09-29 Course Action Request Minutes](#) 

Welcome and call to order. Dr. Deborah Breiter, chair, welcomed the committee and guests. The minutes of the last meeting were reviewed and approved unanimously with no changes.

Revisions to the Instructional Design graduate certificate program. Dr. Richard Hartshorne presented the revisions to this certificate. The revision was to replace course DIG 5875C with the option of either DIG 5875C or IDS 6147. It was noted that the catalog copy listed the course incorrectly as IDL 6147 instead of IDS 6147. This change will be made. This change received unanimous approval from the committee.

Addition of a Mod/Sim Behavioral Cybersecurity graduate certificate. Dr. Paul Wiegand gave an overview of the addition of this new 13 credit hour certificate. This certificate provides students with an interdisciplinary modeling and simulation approach to cybersecurity with an emphasis on the behavioral aspects of cybersecurity and cyber operations. Courses will begin as face to face. In the future, plans are to develop these courses as mixed or online modalities. There will be 5 courses with an A-F grading. Dr. Wiegand indicated that Thomas Nedorost, who is not on the graduate faculty, was scheduled to teach the Cyber Operations Lab course. This course has not been approved yet. This new certificate received unanimous approval from the committee pending the addition of the final course to be added to the curriculum.

Courses and special topics. To review a list of approved courses, please see the attached course minutes. There was a question regarding the 2000 level prereq. for the Interdisc. Approach to the Data Visualization course. Dr. Wiegand indicated that this prereq. could be removed.

Adjournment. The meeting adjourned at 1:00 pm. The next meeting is scheduled for November 3 (October 13 was cancelled).

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REMOVE FROM LIST

CIS 6XXXL

GRDST-

3(1,3) Cyber

Operations Lab: PR: IDS 5XXX Cybersecurity: A Multidisciplinary Approach or C.I.

Programming, software, and hardware components for cybersecurity operations related to system administration, firewalls, cyber attack, cyber defense, security, secure architectures at network and computer level. *Summer*.

Abbrev: (20 of 30 chars) Cyber Operations Lab

Rationale: Submitting course action as part of Program Addition for Modeling and Simulation of Behavioral Cybersecurity G.C.

Students in this interdisciplinary G.C. will come with varying levels of technical or non-technical backgrounds. This course is intended to bring all students up to speed in the technical areas required for understanding cybersecurity.

Majors taking course: M&S of Behavioral Cybersecurity G.C.

IDS 5XXX

GRDST-

3(3,0)

Cybersecurity: A Multidisciplinary Approach: PR: Graduate standing or C.I. Interdisciplinary M&S fundamentals as applied to cybersecurity including operating system installation and administration for hardware, network architectures, configurations, behavioral aspects, organizational continuity planning, security management. *Fall*.

Abbrev: (27 of 30 chars) Cybersec Multidisc Approach

Rationale: Submitting course action as part of Program Addition for Modeling and Simulation of Behavioral Cybersecurity G.C. In order to understand cybersecurity from a multidisciplinary approach, the technical and behavioral aspects must be addressed.

Majors taking course: M&S of Behavioral Cybersecurity G.C.

IDS 6XXX

GRDST-

3(3,0)

Interdisciplinary Approach to Data Visualization: PR: ~~STA 2023~~, STA 5206, DIG 5876, or C.I. A hands-on, interdisciplinary perspective on basic principles and fundamentals of visualizing statistical information. Topics include: effective visualizations, perception, representation, and general principles. *Spring*.

Abbrev: (18 of 30 chars) Data Visualization

Discussion with others: I've spoken with David Nickerson, the chair of the Department of Statistics. He states, "Thank you for contacting the Statistics Department in advance of proposing this new course. You should proceed with submitting this to your curriculum committee noting that the Statistics Department has no significant conflict with it in its present form."

Rationale: Many students in both technical graduate programs, as well as behavioral sciences want and need a better understanding for how to visualize the results of their research -- particularly in the M&S program. There is no general, interdisciplinary graduate class at UCF that presents such material.

Majors taking course: None

IDS 6XXX

GRDST-

3(3,0)

Behavioral Aspects of Cybersecurity: PR: IDS 5XXX Cybersecurity: A Multidisciplinary Approach or C.I. Interdisciplinary human, social, and behavioral issues related to cybersecurity. Management techniques, motives for cyber crimes, risk and threat analysis, ethics, and legal

issues. *Spring*.

Abbrev: (24 of 30 chars) Behavioral Cybersecurity

Rationale: Submitting course action as part of Program Addition for Modeling and Simulation of Behavioral Cybersecurity G.C. In order to understand cybersecurity from a multidisciplinary approach, there are many organizational and behavioral aspects that must be addressed.

Majors taking course: M&S of Behavioral Cybersecurity G.C.

IDS 6XXX

GRDST-

1(1,0)

Emerging Cyber Issues: PR: Graduate standing or C.I. Interdisciplinary discussion of emerging issues with expert speakers from industry. Preparation of topic and required resources to complete a multi-disciplinary Modeling & Simulation capstone project. *Summer*.

Abbrev: (21 of 30 chars) Emerging Cyber Issues

Rationale: Submitting course action as part of Program Addition for Modeling and Simulation of Behavioral Cybersecurity G.C.

In order to understand emerging cyber issues, it is necessary to consider the multidisciplinary technical and behavioral aspects involved.

This course is also intended to prepare students for the final capstone course in the G.C. by requiring them to consider the topic and necessary resources for their final projects a full semester in advance of the capstone.

Majors taking course: M&S of Behavioral Cybersecurity G.C.

College of Nursing Course Additions

NGR 7XXXL

CON-ALL VAR(VAR,VAR)

DNP Professional Practice Immersion: PR: Doctoral standing in the College of Nursing or C.I. Sponsored student immersion in a professional practice setting to promote advanced nursing leadership needs assessment, evaluation of public policy and design of care delivery models *Spring, Summer, Fall*.

Abbrev: (24 of 30 chars) DNP Prof Pract Immersion

Discussion with others: Not applicable

Rationale: students need to complete 1000 participation hours to meet DNP requirements. Clinical participation hours taken at the master's level count towards this requirement. The Executive DNP incorporates 730 participation hours in the standard curriculum. Students needing more than 730 hours are required to completed additional course hours to meet the standard in order to award the degree. This course is designed to be consistent with the DNP Essentials as a means to complete any additional course hours required.

Majors taking course: Not applicable

College of Sciences Course Additions

PCB 6XXX

COS-BIOL

3(3,0) Methods

in Experimental Ecology II: PR: PCB 6466 Methods in Experimental Ecology. Strengthen student's ability to collect, organize and interpret ecological data. Confronts concepts in experimental design, execution and analysis as a tool to improve ecological research. *Even Spring*.

Abbrev: (11 of 30 chars) Meth Exp II

Discussion with others: None that I am aware. I have talked with Dr. David Nickerson, the Chair of the Department of Statistics, and we do not identify any concerns.

Rationale: This course will fill a gap in the curricula of our graduate program. While current developments in biological sciences become more quantitative and new research increases emphasis in more sophisticated experimental designs and analysis, our program lacks classes providing this information.

2. Special Topics Additions

College of Graduate Studies Special Topics Additions

IDS 6938

GRDST-

3(3,0)

Interdisciplinary Approach to Data Visualization: PR: STA-2023, STA 5206, DIG 5876, or C.I. A hands-on, interdisciplinary perspective on basic principles and fundamentals of visualizing statistical information. Topics include: effective visualizations, perception, representation, and general principles. *Occasional*.

Abbrev: (18 of 30 chars) Data Visualization

Discussion with others: I've spoken with David Nickerson, the chair of the Department of Statistics. He states, "Thank you for contacting the Statistics Department in advance of proposing this new course. You should proceed with submitting this to your curriculum committee noting that the Statistics Department has no significant conflict with it in its present form."

College of Sciences Special Topics Additions

PCB 6938

COS-BIOL

3(3,0)

ST: Methods in Experimental Ecology II: PR: PCB 6466 Methods in Experimental Ecology. Strengthen student's ability to collect, organize and interpret ecological data. Confronts concepts in experimental design, execution and analysis as a tool to improve ecological research. *Occasional*.

Abbrev: (15 of 30 chars) ST: Meth Exp II

Discussion with others: None that I am aware. I have talked with Dr. David Nickerson, the Chair of the Department of Statistics, and we do not identify any concerns.

3. Course Revisions

College of Engineering and Computer Science Course Revisions

Tabled. Sent note to college to verify that the hours were correct.

Semiconductor Material and Device Characterization

EEE 5352

3(3,0)

EEE 5352C

3(3,2)

PR: EEE 3350 or C.I.

Semiconductor material characterization resistivity, mobility, doping carrier lifetime, device properties, threshold voltage, interface charge of MOS devices, optical and surface characterization of films.

Term Offered: ~~Occasional~~ Even Fall

Rationale: Laboratory component will be added with 8 experiments
There is 1 program that lists EEE 5352: Physics (B.S.)

ESI 6551C	Systems Engineering	3(2,2)
ESI 6551	Systems Architecting	3(3,0)

PR: ESI 4312 or ESI ~~5306~~ 5306 or C.I.

~~Integration and application~~ Introduction to heuristics approach to the process of systems science, operations research, systems methodologies, architecting in business, economics, social, urban, military and systems management for government domains emphasizing the design, production, conceptual representation and maintenance of efficient, reliable systems. acceptance phases.

~~Term Offered: Fall, Spring~~ Fall

Rationale: Revision is needed in order for the nature and actual contents of teaching the subject match the course title and description.

Majors taking course: IEMS Ph.D., MSIE, MS

are no programs that list ESI 6551C.

College of Nursing Course Revisions

NGR 7748	Advanced Clinical Practice Selective for Advanced Practice Nursing	3(1-3,0)
NGR 7748L		1-3(0,1-3)

PR: NGR 7176; CR: NGR 7065.

Clinical management of clients with complex health maintenance, health promotion and illness management needs. Graded S/U. May be used in the degree program a maximum of 2 times.

Rationale: A clinical course.

There are no programs that list NGR 7748.

College of Sciences Course Revisions

ANG 5531	Nutritional Anthropology	3(3,0)
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~~PR: One course in Social Sciences (min 2000-level) and one course in Biological Sciences (min 2000-level) or Consent of Instructor. Graduate status or senior standing~~ Admission to Anthropology M.A., Maya Studies GC, or C.I.

The biological, social, cultural, psychological, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, evolutionary, ecological.

Discussion with others: n/a

Rationale: Course prerequisites were incorrectly listed as undergraduate courses in the catalog making the course open to all graduate students. Prerequisites should be the same as other Anthropology graduate courses.

There are no programs that list ANG 5531.