

UCF Graduate Council

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CURRICULUM COMMITTEE MINUTES

Minutes of October 12, 2005 meeting

Members Present Aubrey Jewett, Randall Upchurch, Rachel Viggiano, Lea Witta, Patricia Bishop, Ram Mohapatra, Jim Moharam

Recorder Rhonda Nelson

Guests Present Atusi Hirumi, Dore Carter, Paige Borden

Files [2005-10-12 Course Action Request Minutes](#) 

Handouts: subcommittee member list, overview of committee responsibilities, revisions to Graduate Certificate in Instructional Design for Simulations, Revisions to the Ph.D. in Modeling and Simulation, courses and special topics.

- The meeting began at 2:00 p.m. in Room 243 Millican Hall with Dr. Mohapatra, chair, facilitating. A quorum was established. Dr. Mohapatra began by welcoming the committee to the first meeting. The committee members and guests were introduced. An overview of the committee responsibilities was distributed, which included a listing of all items requiring Graduate Council approval.
- Dr. Bishop shared with the committee that the medical proposal was approved by the BOT on September 22, 2005, and the BOG will be voting on the proposal at its November meeting. New programs to be considered this year will include Digital Forensics and Biotechnology.
- Revisions to the Graduate Certificate in Instructional Design for Simulations.** Dr. Hirumi explained the changes and reasons for changes to the committee. The revisions included replacing the current internship requirement with a new graduate level course and changing the title of an existing course. All changes were approved.
- Addition of a Graduate Certificate in Interactive Entertainment.** The College of Arts and Sciences asked to remove this from the agenda.
- Revisions to the Ph.D. in Modeling and Simulation.** Changes to this program consisted of adding a restricted elective (students would choose 2 electives from 3 groups) and reducing the number of required cornerstone courses from 3 to 2. No changes to total hours of the program. Dr. Bishop pointed out that since this program is an interdisciplinary program, these changes are required to go through an Interdisciplinary Program Committee which is comprised of representatives from each college. This program committee was put in place when this program was set up and is considered college review. Dr. Reilly was not present at this meeting but did indicate that this procedure had been followed. These changes were approved by the committee.
- Courses and special topics.** See attached sheet for approved courses. Courses pending for clarification included the following:
DIG 5XXX Creating Interactive Characters
DIG 5XXX Interactive Entertainment Capstone
DIG 5XXX Interactive Entertainment Practicum
ESI 6XXX Space Industry Capstone Experience

Two courses requesting a prefix change were not approved:
MAR 6407 Professional Selling in Sport
MAR 6710 Strategic Sport Marketing
- Meeting adjourned at 3:30 p.m.

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GRADUATE COUNCIL APPROVED MINUTES
10-12-05

Engineering & Computer Science Special Topics

CWR 5937 ECS-Civil & Environmental 3(3,0)

ST: Numerical Methods in Civil & Environmental Engineering: PR: CWR 4101C, CWR 4203C. Intermediate to advanced numerical methods theory including code development and error assessment, while targeting civil and environmental engineering applications.

17 character abbreviation: **ST: NUM METH CEE**

CDA 6938 ECS-Computer Science 3(3,0)

ST: Research in Computer and Network Security: PR: CDA 4527, COP 4600. State-of-the-art research results on computer related security issues. Topics include internet malware (virus, worm, spam, spyware, etc), wireless security, intrusion detection.

17 character abbreviation: **ST: RES COMP SEC**

EML 5937 ECS-Mechanical/Matrls/Aerosp 3(3,0)

ST: Biofluid Mechanics: PR: EML 3701, EML 4703, MAP 2302. Analysis of biomedical and bioengineering systems using principles of transport phenomena. Governing equations of fluid flow, circulatory systems blood flow, macro and microcirculation, and blood rheology.

17 character abbreviation: **ST: BIOFLUID MECH**

Arts & Sciences Course Action Additions

PCB 5XXX AS-Biology 3(3,0)

Methods in Experimental Ecology: PR: STA 5175 and STA 4173, or C.I. Reviews analytical tools needed to collect, analyze and interpret ecological data. Review case studies illustrating research problems and discuss potential solutions.

17 character abbreviation: **METH EXP ECOLOGY**

PHY 6XXX AS-Physics 3(3,0)

Quantum Field Theory I: PR: PHY 6347 and PHY 6624 or C.I. Second quantization and fields, relativistic equations, path integral quantization, gauge fields.

17 character abbreviation: **QFT I**

PHY 7XXX AS-Physics 3(3,0)

Quantum Field Theory II: PR: PHY6XXX (Quantum Field Theory I) or C.I. Regularization, renormalization, spontaneous symmetry breaking, unification, topological objects, supersymmetry.

17 character abbreviation: **QFTV II**

PHZ 5XXX AS-Physics 3(3,0)

Nanoscale Surface Physics: PR: Undergrad Quantum Mechanics at the level of PHY 4604 or C.I. Overview of physical and chemical properties of nanoscale surfaces.

17 character abbreviation: **NANO SURF PHYSICS**

TPP 6XXX AS-Theatre 3(3,0)

Acting Studio V: TV/FILM: PR: THE 6XXXC (Acting Studio IV) and MFA Theatre Graduate. Technical and practical aspects of acting for Film and Television.

17 character abbreviation: **ACTING STUDIO V**

Business Administration Course Action Additions

GEB 6XXX BA-Management 3(3,0)

Technology Venture Projects: PR: C.I. Science, technology and business students work together to create business plans for commercializing promising technological innovations.

17 character abbreviation: **TECH VENTURE PROJ**

Engineering & Computer Science Course Action Additions

CWR 5XXX ECS-Civil & Environmental 3(3,0)

Numerical Methods in Civil & Environmental Engineering: PR: CWR 4101C, CWR 4203C. This course will present intermediate to advanced numerical methods theory and include code development and error assessment, while targeting civil and environmental engineering applications.

17 character abbreviation: **NUM METH CEE**

ENV 5XXX ECS-Civil & Environmental 3(3,0)

Industrial Ecology: PR: ENV 3001, ENV 4341. Discussion of similarities between ecological systems and industrial systems with the emphasis on material cycles, energy flow, pollution prevention, organizational structures, and environmental management.

17 character abbreviation: **IND ECOLOGY**

ESI 6XXX ECS-Industrial & Management 3(3,0)

IEMS Research Methods: PR: ESI 5219. Assist students in producing publishable research and to introduce new tools which may be needed for collection and analysis of research data.

17 character abbreviation: **IEMS RESEARCH MET**

EML 5XXX ECS-Mechanical/Matrls/Aerosp 3(3,0)

Biofluid Mechanics: PR: MAP 2302, EML 3701, EML 4703. Analysis of biomedical and bioengineering systems using principles of transport phenomena. Governing equations of fluid flow, circulatory systems blood flow, macro and microcirculation, and blood rheology.

17 character abbreviation: **BIOFLUID MECHANIC**

Education Course Action Additions

EEX 6XXX **ED-Child, Family & Comm Sci** **3(3,0)**

Teaming and Systems in Early Childhood Special Education: PR: Graduate standing or C.I. The process of teaming and collaboration in planning and delivering developmental intervention services in natural environments for infants, toddlers and young children with disabilities.

17 character abbreviation: **TEAMING IN ECEESE**

EME 6XXX **ED-Ed Research, Tech & Lead** **3(3,0)**

Instructional Game Design for Training and Education: PR: EME 6613. Integration of instructional design and game development processes, analysis of existing instructional games and game engines and the design of an instructional game.

17 character abbreviation: **INST GAME DESIGN**

Business Administration Course Action Deletions

ACG 5205 **BA-Accounting 3(3,0)**

Advanced Financial Accounting Topics: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 3111 with a grade of "C" or better. Accounting for business combinations and the preparation of consolidated financial statements. Accounting issues related to foreign operations. Also includes a study of current reporting topics.

GEB 5954 **BA-Management** **3(3,0)**

Entrepreneurship Field Project: PR: C.I. Technical and business students partner to provide feasibility assessments or business plans related to emerging business opportunities.

Arts & Sciences Course Action Revisions

PHY 6667 **Advanced Quantum Mechanics** **3(3,0)**

PR: ~~PHY 6624 or OSE 6347.~~ 6624.

~~Introduces advanced graduate students to the methods of Quantum field theory, essential for the understanding of many branches of physics.~~

Fields, radiation, Klein-Gordon equation, Dirac equation, relativistic quantum scattering, photon propagator.

Business Administration Course Action Revisions

MAN 6286 ~~**Innovation and Strategic Change**~~ **3(3,0)**

Technological Innovation and Entrepreneurship

PR: Graduate standing or C.I.

~~An in depth examination of strategic and innovation processes as they relate to the management of emerging technologies from invention to commercialization.~~

Emphasizes how businesses instigate and respond to changes created by new technology, and examines the roles of innovation and new venture creation in the successful management of change.

17 character abbreviation: **TECH INNOV & ENT**

Education Course Action Revisions

EME 6601 ~~**Instructional Simulations Design in Education**~~**3(3,0)**
Instructional Simulation Design for Training and Education

PR: EME 6613.

Integration of ISD methods with simulation systems design, including analysis, design, development and formative evaluation of leading-edge training and educational simulation technologies.

17 character abbreviation: **INST SIM DESIGN**

Health & Public Affairs Course Action Revisions

PAF 7802 ~~**Advanced Research Methods in Public Affairs**~~**3(3,0)**
Advanced Research Methods in Public Affairs I

PR: Admission to Ph. D. Program or ~~C.I.~~ C.I.

Advanced social science methodology. Critical evaluation of research; the design and conduct of research. A solid background in research methodology is required.

17 character abbreviation: **ADV RES METH PA 1**