

UCF Graduate Council

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CURRICULUM COMMITTEE MINUTES

Minutes of February 15, 2008 meeting

Members Present Patricia Bishop, Deborah Breiter, Art Weeks

Recorder Rhonda Nelson

Guests Present Grant Hayes, Ted Kian, Steve Holmes, Jamal Nayfeh, Charles Reilly, David Workman, Joe Sanborn, Robert Langworthy

Files [2008-02-15 Course Action Request Minutes](#) 

Welcome and call to order. The meeting was called to order at 12:30 p.m. by Stephen Goodman, chair.

Reactivation and course revisions to the Systems Engineering Management (SEM) track, ECS. Dr. Charles Reilly presented a summary of the changes to this track. The department requested to reactivate the track and rename it to Systems Engineering. The department proposed to restructure the curriculum from a lockstep, 36 hour, non thesis only track, to a 30 hour program with both thesis and non thesis options. They requested that this program be implemented for fall 2008. This program can be completed entirely through the FEEDS program. These changes were approved unanimously by the committee.

Addition of a graduate certificate in Systems Engineering, ECS. Dr. Reilly presented a summary of this graduate certificate. This will be a new 12 credit hour program with no new courses needed for the program. This new certificate will help meet the demand and need for systems engineering education. This certificate was approved unanimously by the committee.

Addition of a graduate certificate in Software Engineering for Web-based Application, ECS. Dr. David Workman gave a summary of this new proposed graduate certificate. This is an 18 credit hour certificate. The program will provide software engineering professions or other professions in the computing industry an opportunity to advance their professional skills, training and education, while obtaining graduate credit in the area of software development for internet applications. It will be an intermediate step toward a future professional master's degree in software engineering. The committee requested that additional information be submitted that indicated that the faculty participating will be SACS certified. They further requested that an advisory board be established just for this program to provide oversight over the curriculum and standards. This certificate received unanimous approval with these changes. Dr. Workman was asked to submit a revised proposal with these changes for review at the next committee meeting.

Track additions and curriculum revisions to the Criminal Justice master's program, HPA. Drs. Sanborn and Langworthy gave a summary of the additions and revisions for this program. The proposal involves the creation of two tracks within the existing degree - one professional track and one research track. This proposal also includes five new courses. The changes and additions received unanimous approval by the committee.

Course revisions to the Health Services Administration track, HPA. The department has requested to increase the total number of hours of the program from 48 to 51 credit hours. It includes the addition of one required course and the addition of two electives. These changes received unanimous approval from the committee. The committee asked that a correction be made to the catalog copy to show that the number of credit hours for the required courses is now 48. The committee asked that a revision showing these changes be forwarded to Graduate Studies.

Renaming of the Physical Education program to Sport and Fitness, ED. Grant Hayes and Ted Kian presented a summary of these changes. The department has requested to change the M.A. in Physical Education to an M.A. in Sports and Fitness with two tracks; one in Health/Wellness & Applied Exercise Physiology and the other in Sport Leadership & Coaching. Changes to the curriculum were also shared. These changes received unanimous approval from the committee.

Review of courses and special topics. For a complete list of courses approved, review the attachment listed at the top of this page. The committee was not able to review a majority of the courses due to time.

Announcements and adjournment. Next meeting: February 26, 12:30, MH 243.

Graduate Council Curriculum Subcommittee **Course Minutes 02-15-2008**

All courses listed below were approved unless otherwise noted. Any course listed as tabled or withdrawn refers to the course directly below the notation.

Engineering & Computer Science Course Action Additions

CAP 5XXX ECS-Computer Science 3(3,0)

AI for Game Programming: PR: CS Foundation Exam or EEL 4851C or C.I. Surveys cutting-edge AI techniques for video games and board games and contrasts them with more traditional approaches.

30 character abbreviation: **AI for Game Programming**

CAP 6XXX ECS-Computer Science 3(3,0)

Complex Adaptive Systems: PR: Graduate standing or C.I. This course is an introduction to the field of complex adaptive systems and will cover basic definitions, theoretical background, and empirical analyses.

30 character abbreviation: **Complex Adaptive Systems**

Tabled : pending question on prerequisite

COP 6XXX ECS-Computer Science 3(3,0)

Network Optimization: Recent advances in theory and computational techniques for optimal design and analysis of large networks for computers communications, and transportation including Internet and WWW complex networks

30 character abbreviation: **Network Optimization**

EEL 5XXXC ECS-Electrical & Computer Eng 4(3,3)

Microwave Engineering: PR: EEL 3470 or C.I. Transmission line theory, Smith charts, S-parameters, simple impedance matching circuits, wave guides, resonators, basic microwave measurements.

Materials & Supply Fee addition proposed: \$0.00

30 character abbreviation: **Microwave Engineering**

EEL 6XXX ECS-Electrical & Computer Eng 3(3,0)

CMOS Analog and Digital Integrated Circuit Design: PR: EEL 4309C or C.I. The objective of this class is to teach the graduate students the principle and techniques of CMOS IC design for high performance, low power, and RF applications.

30 character abbreviation: **CMOS Analog & Dig Intergr Circ**

EEL 6XXX ECS-Electrical & Computer Eng 3(3,0)

Cooperative Control of Networked Autonomous Systems: PR: EEL 5173 or C.I. Fundamentals of cooperative control theory for autonomous vehicles and agents, with

emphasis on consensus, effects of intermittent and delayed communication/sensing network, and cooperative control designs.

30 character abbreviation: **Cooperative Control of Systems**

Tabled : pending question on prerequisite

EEL 6XXX ECS-Electrical & Computer Eng 3(3,0)

Semiconductor Material and Device Characterization: PR: EEL 3306 or C.I. Semiconductor materials, resistivity, mobility, doping, carrier lifetime, defects, contact resistance, threshold voltage, interface charges, channel length of MOS devices, optical and surface characterization

30 character abbreviation: **Semicondct Matrl & Device Char**

College of Education Course Action Additions

Tabled

EDF 6XXX ED-Educational Studies 3(3,0)

Teacher Leadership for Educational Equity and Social Justice: PR: Graduate status. Analyzes interrelationship of identity differences with educational and social policy, contexts, and practice, with attention to Florida schools' equity data.

30 character abbreviation: **Teach Ldrshp Educ Equity & Soc**

Tabled

EDG 6XXX ED-Educational Studies 3(3,0)

Seminar in Teacher Leadership: PR: Graduate status. Develops knowledge and skills to critically analyze educational contexts and to advance student achievement through collaborative leadership in continuous school improvement.

30 character abbreviation: **Seminar in Teacher Leadership**

TABLED : Continue to table. Review at same time as Art Education track.

ARE 7XXX ED-Teaching & Learning Princ 3(3,0)

Advanced Research Seminar in Art Education: PR: Doctoral standing, admission to the PhD or EdD in Education, or C.I. Identify and review landmark research relevant to art education research. Emphasis is placed on examining the nature of past and present research in art education, various methods of conducting art education research, and how research can translate into practical classroom application. May be used in the degree program a maximum of 2 times only when course content is different.

30 character abbreviation: **Adv Res Seminar in Art Educ**

TABLED : Continue to table. Review at same time as Art Education track.

ARE 7XXX ED-Teaching & Learning Princ 3(3,0)

Assessment Seminar in Art Education: PR: Doctoral standing, admission to the PhD or EdD in Education, or C.I. This course will examine the nature of past and present assessment research in art education, various methods of conducting this research, and how it can translate into application and contribute to the knowledge base in the field.

30 character abbreviation: **Assess Seminar in Art Educ**

TABLED : Continue to table. Review at same time as Art Education track.

ARE 7XXX ED-Teaching & Learning Princ 3(3,0)

Internship Seminar in Art Education: PR: Doctoral standing, admission to the PhD or EdD in Education, or C.I. Doctoral Internship is "hands on experience" in pre K-16 or as a community based art educator under supervision of a certified classroom teacher. The purpose of this course is for candidates to assume the roles and responsibilities of a classroom teacher.

30 character abbreviation: **Intrn Seminar in Art Education**

Tabled

SCE 7XXX ED-Teaching & Learning Princ 3(3,0)

Assessment in Science Teaching, Learning and Research: PR: Doctoral standing, admission to the PhD or EdD program, and CI. This course will examine current instruments/tools used in science assessment covering standardized science testing and authentic and performance-based science assessments.

30 character abbreviation: **Assess Sci Teach Learn & Res**

Tabled

SCE 7XXX ED-Teaching & Learning Princ 3(3,0)

Design of Post Secondary Science Curriculum: PR: Doctoral standing, admission to the PhD program or EdD, and CI. Successful completion of ESE 6235 or an approved equivalent. This course will examine issues of curriculum theory, research, and practice at the post-secondary level situated in science education.

30 character abbreviation: **Design Post Sec Science Curr**

Health & Public Affairs Course Action Additions

Tabled : pending question on adding CCJ 6704 as a prerequisite

CCJ 6XXX HPA-Criminal Justice/Legal St 3(3,0)

Advanced Research Methods in Criminal Justice: PR: Graduate Standing or C.I. This course exposes students to the application of research methods in criminal justice. This course serves as the capstone experience for the Research Track.

30 character abbreviation: **Adv Research Methods in CJ**

Tabled : pending question on prerequisite – delete graduate standing and keep C.I. only

CCJ 6XXX HPA-Criminal Justice/Legal St 3(3,0)

Proseminar in Criminal Justice: PR: Graduate Standing or C.I. This course is the capstone experience for the Criminal Justice Professional track. The course reviews and integrates the six other courses in the core curriculum.

30 character abbreviation: **Proseminar in Criminal Justice**

All courses from this point on were tabled due to time.

Engineering & Computer Science Course Action Deletions

EEL 6786 ECS-Electrical & Computer Eng 3(3,0)

Advanced Networking Hardware Design: PR: EEL 4781, EEL 4768C, or C.I. Advanced design techniques, specifically for packet-switched networks (wired, wireless, or optical).

Engineering & Computer Science Course Action Revisions

CAP 5512 Evolutionary Computation 3(3,0)

PR: CAP 4630 or C.I.

This course covers the field of evolutionary computation, focusing on the theory and application of genetic algorithms.

~~CAP 6637 Affective Computing with Artificial Intelligence 3(3,0)~~

Activity and Plan Recognition

~~PR: CAP 5636, 5415 or CAP 5610 or CAP 5512 or C.I.~~

~~Improve understanding of functional role of affect. Integrate emotion recognition techniques. Synthesize emotion and expression of emotion for autonomous agents. Understand affective computing social implications.~~

~~Classical and probabilistic techniques for plan and activity recognition with a focus on graphical models~~

30 character abbreviation: **Activity and Plan Recognition**

~~CAP 6671 Intelligent Systems 3(3,0)~~

Intelligent Systems: Robots, Agents, and Humans

~~PR: CAP 5640, 5610 or C.I.~~

~~Study of computer systems exhibiting intelligent attributes, particularly learning; basic concepts related to characteristics, capabilities, design, and principles of operation; discussion of relevant philosophical/social issues.~~

~~Study of systems that exhibit intelligent attributes. Includes practical techniques for designing intelligent agents capable of planning, learning, and cooperation. Discussion of psychological/social issues.~~

30 character abbreviation: **Robots, Agents, and Humans**

~~CGS 5132 Computer Forensics II: Network Security, Intrusion Detection, & Forensic Analysis 3(3,0)~~

CAP 6XXX Computer Forensics II

PR: CGS 5134, 5131 or C.I.

~~Computer network protocols and security, protocols and security models, cryptography, network intrusion detection and prevention, digital evidence collection and evaluation, and legal issues involved in network forensics analysis.~~ forensics, wireless security and forensics

30 character abbreviation: **Computer Forensics II**

~~Systems with one or more central I/O processors. Types of parallelism granularity and memory organization. Processor/memory message passing systems. Shared memory multiprocessors.~~

~~Principles and trade-offs in the design of parallel architectures, shared-memory, message-passing, dataflow, data-parallel machines, cache coherence protocols, and consistency models.~~

30 character abbreviation: **Parallel Computer Architecture**

EEL 6812 Introduction to Neural Networks 3(3,0)

PR: EEL 5825 or C.I.

~~Artificial neural network theory, models, and architectures. Neurobiological basis, learning theory, applications, and hardware implementation issues.~~

~~Preliminaries of Neural Networks, Simple Layer Perceptrons, Multi-Layer Perceptrons, Kohonen Neural Networks, Radial Basis Function Neural Networks, Adaptive Resonance Theory Neural Networks, and Support Vector Machines.~~

**EEL 6875 Engineering of Artificial Intelligence Systems 3(3,0)
Autonomous Agents**

PR: EEL 5874 or C.I. 4872 or CAP 4630 or C.I.

~~Introduction to the engineering of knowledge-based automated reasoning systems including the use of representation languages and object-oriented techniques. It is based on LISP.~~

~~Agent architectures, including behavioral, decision theoretic and logic (BDI) based. Multi-agent systems, agent communication languages. Negotiation, argumentation, coalition formation. Project oriented.~~

30 character abbreviation: **Autonomous Agents**

**EEL 6876 Current Topics in Artificial Intelligence in Engineering Systems 3(3,0)
Current Topics in Artificial Intelligence**

PR: EEL 6875 or C.I. 4872 or CAP 4630 or C.I.

~~including artificial intelligence, relevant to engineering systems including causal modeling, qualitative reasoning, temporal reasoning, and inductive reasoning. Review of the state-of-the-art research in literature. selected current topics in artificial intelligence. Includes extensive review of current literature and class discussion~~

30 character abbreviation: **Curr Topics in Artif Intell**

EEL 6878 Modeling and Artificial Intelligence 3(3,0)

PR: EEL 6875 or C.I. 4872 or CAP 4630 or C.I.

~~Introduction to various applications of artificial intelligence techniques as they affect the engineering aspects of computer-based simulation, modeling, and training. The course will be taught as a seminar, making significant use of the current research literature. Topics include Intelligent Tutoring Systems, Situational Awareness, Intelligent Instructor Support, and Qualitative Modeling.~~

~~Introduction to artificial intelligence techniques applied to computer-based modeling, simulation, and training. The course makes significant use of the current research literature.~~

**~~EEL 5762~~ Performance Analysis of Computer and Communication Systems
3(3,0)**

EEL 6XXX

PR: ~~EEL 4767C, STA 3032.~~ 4767C and STA 3032 or C.I.

Stochastic modeling and discrete-event simulation; Markov chains; networks of queues; SemiMarkov models; application to multiprocessor systems, switching and multi-user communications.

~~EEL 5425C~~ RF and Microwave Measurement Techniques 4(3,3)

EEL 6XXXC

PR: EEL 4436C or EEL 5482 or ~~EEL 5555C.~~ 5555C or C.I.

RF& Microwave components in wireless systems, i.e. antennas, passive components, active circuits, as well as noise, modulation are characterized by measurement and designed/verified by EM/circuit software.

Materials & Supply Fee: \$30.00