

Graduate Council Curriculum Subcommittee
January 30, 2008
1:30 p.m., 243 MH
(Revised)

Agenda

1. Welcome and call to order
2. Approval of minutes from January 15
3. Review of:
 - ◆ Equipment Fee Requests
 - ◆ Materials and Supplies Fee Requests
4. Review of courses and special topics
5. Announcements and adjournment

Graduate Council Curriculum Subcommittee **Agenda 01-30-2008**

Equipment Fee Requests

College of Arts & Humanities

Department of Music – requests the establishment of a fee for the following degree program :
MA in Music degree program

Full-time students : \$90 Part-time students : \$45

College of Sciences

Department of Chemistry – requests the establishment of a fee for the following degree programs :

Ph.D. in Chemistry

M.S. in Industrial Chemistry

M.S. in Forensic Science

Full-time students : \$100 Part-time students : \$50

College of Engineering & Computer Science

The College of Engineering and Computer Science requests the establishment of a fee for the following degree programs :

CECS Ph.D. programs (Table 2)

CECS M.S. programs (Table 3)

Full-time students : \$90 Part-time students : \$45

Materials & Supplies Fee Requests

College of Arts & Humanities

MUN 5715L CAH-Music 1(0,4)

Jazz Ensemble: PR: Audition, graduate or senior standing, and C.I. Study and performance of jazz big band music. May be used in the degree program a maximum of 4 times only when course content is different.

Materials & Supply Fee addition proposed: \$20.00

30 character abbreviation: **Jazz Ensemble**

MUN 5716L CAH-Music 1(0,2)

Jazz Chamber Group: PR: Audition, graduate standing or senior standing, and C. I. Study and performance of jazz small group music. May be used in the degree program a maximum of 4 times.

Materials & Supply Fee addition proposed: \$20.00

30 character abbreviation: **Jazz Chamber Group**

MVJ 5359C CAH-Music 2(1,1)

Jazz Drum Set V: PR: Audition, graduate standing or senior standing, and C.I. Study of jazz drum set literature, styles, and techniques. May be used in the degree program a maximum of 3 times only when course content is different.

Materials & Supply Fee addition proposed: \$35.00

30 character abbreviation: **Jazz Drum Set V**

MVJ 6359C CAH-Music 2(1,1)

Jazz Drum Set VI: PR: Admission into the MA in Music and an audition. Advanced study of jazz drum set literature, styles and techniques; continuation of Jazz Drum Set V. May be used in the degree program a maximum of 3 times only when course content is different.

Materials & Supply Fee addition proposed: \$35.00

30 character abbreviation: **Jazz Drum Set VI**

ART 5698 Concourse I 3(3,0)

PR: ART 5910 and ART 5280C and ART 5694, or C.I.

Digital reproduction of studio works.

Materials & Supply Fee addition proposed: \$52.95

ART 5910 Studio Concentration I 3(3,0)

PR: Admission to MFA.

Course is the primary for production of work in studio. Students will meet periodically with faculty to discuss progress. Professor will meet with the whole class periodically in order to facilitate a group critique of work completed. May be used in the degree program a maximum of 3 times.

Materials & Supply Fee addition proposed: \$52.95

ART 6699 Concourse II 3(3,0)

PR: ART 5698.

Continuation of Concourse I. Digital work used to create group web exhibit and interactive portfolio.

Materials & Supply Fee addition proposed: \$52.95

ART 6911 Studio Concentration II 3(3,0)

PR: Admission to MFA and ART 5910.

Continuation of Concentration I. The principle class for studio work production. May be used in the degree program a maximum of 2 times.

Materials & Supply Fee addition proposed: \$52.95

TPP 6216C Theatre for Young Audiences Tour 3(3,6)

PR: Admission to the graduate program in Theatre or C.I.
Performance, administration and technical work on a touring production for young audiences.
Materials & Supply Fee addition proposed: \$45.00

Burnett College Biomedical

BSC 6407C Laboratory Methods in Molecular Biology 4(2,4)

PR: Graduate standing, PCB 4524 or C.I.
Experimental techniques and design in laboratory biological research.
Current Materials Fee: \$45.00 (change to \$91.00 pending)

College of Sciences

ZOO 5475C Ornithology 4(2,6)

ZOO 5475L Field Ornithology 3(0,6)

~~PR: 6 hours of zoology, PR: PCB 3044 and graduate status or senior standing, standing or C.I.~~

~~Introduction to the biology of birds, their classification, evolution, and life histories.
Introduction to the identification, taxonomy, natural history, and biology of birds, with emphasis on survey techniques and systematics.~~

Current Materials Fee: \$15.00 (change to \$30.00 pending)

30 character abbreviation: **Field Ornithology**

College of Education

SPS 6125 Infant Development Assessment 3(2,1)

PR: Graduate admission and C.I.
Analysis of test theory and practice in administration, scoring, and interpretation of instruments assessing cognitive, visual-motor ability and adaptive behavior to pre- and primary school children.
Materials & Supply Fee addition proposed: \$41.64

SPS 6191 Individual Psychoeducational Diagnosis I 4(4,0)

PR: Graduate admission and C.I. CR: SPS 6206.
Measurement of intellectual and cognitive functioning of children and adults. Administration, scoring and interpretation of Wechsler scales and selected psychometric instruments.
Materials & Supply Fee addition proposed: \$53.76

SPS 6192 Individual Psychoeducational Diagnosis II 4(4,0)

PR: Graduate admission and C.I. CR: SPS 6948.
Measurement of intellectual and cognitive functioning of children and adults. Administration, scoring, and interpretation of Binet IV, K-ABC, Woodcock-Johnson, and other psychometric instruments.
Materials & Supply Fee addition proposed: \$46.72

SPS 6194 Assessment of Special Needs 3(3,0)

PR: SPS 6191, SPS 6192.

Measurement of social, behavioral, and emotional functioning in children and adolescents.

Materials & Supply Fee addition proposed: \$51.00

The following 2 requests were incorrectly added and should be deleted from this agenda.

Health & Public Affairs

SPA 6942C Intermediate Clinical Practicum 3(1,6)

PR: SPA 6503.

Intermediate supervised practicum in evaluation and management of speech, language and hearing disorders. Includes 1 hour weekly meeting. May be repeated for credit.

New recommended Materials Fee: \$31.50

SPA 6943C Advanced Clinical Practicum 3(1,6)

PR: SPA 6942C.

Advanced supervised practicum in evaluation and management of speech, language and hearing disorders. May be repeated for credit.

New recommended Materials Fee: \$31.50

Graduate Council Curriculum Subcommittee

Course Agenda 01-30-2008

(Revised 1/29/2008)

College of Arts & Humanities Special Topics

MUE 5937 Sect 01 CAH-Music 2(2,0)

ST:Music Education Workshop: PR: Graduate standing or C.I. Variable topics in Music Education to offer hands-on instruction in a workshop format. May be used in the degree program a maximum of 4 times only when course content is different.

30 character abbreviation: **ST:Music Education Workshop**

AGENDA NOTES: Course Addition also being proposed.

College of Education Special Topics

EDH 6938 Sect 01 ED-Ed Research, Tech & Lead 3(3,0)

ST: Retention Strategies in Colleges and Universities: Analyzing educational and political ramifications of college attrition, with focus on variation in retention practices and strategies.

30 character abbreviation: **ST: Retention Strategies Coll**

EDF 6938 Sect 01 ED-Educational Studies 1(1,0)

ST: Understanding Mentoring: Building Student Connections: PR: Students must be BCC staff and CI. Provides faculty with strategies, tactics, and tools to improve interactivity to distance learning.

30 character abbreviation: **ST: Underst Mentoring: Buildin**

College of Arts & Humanities Course Action Additions

MUE 5XXX CAH-Music 2(2,0)

Music Education Workshop: PR: Graduate standing or C.I. Variable topics in Music Education to offer hands-on instruction in a workshop format. May be used in the degree program a maximum of 4 times only when course content is different.

30 character abbreviation: **Music Education Workshop**

AGENDA NOTES: Special Topic also being proposed.

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**

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**

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 MatrI & Device Char**

College of Education Course Action Additions

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**

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**

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**

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**

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

CAP 6XXX Computer Forensics II

PR: CGS 5131, 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**

Tabled : Two courses with the same name and course description. New information : Keep this course per feedback from School of EI Engr and Computer Science.

CDA 5106 Advanced Computer Architecture I- 3(3,0)
Advanced Computer Architecture

PR: CDA 4150C, 4150C or EEL 4768C.

~~Instruction set architectures, processor implementation, memory hierarchy, pipelining, computer arithmetic, vector processing, and I/O.~~

Modern processor design, instruction-level parallelism, thread-level parallelism, data-level parallelism, memory hierarchy, and I/O.

30 character abbreviation: **Adv Computer Architecture**

Tabled : Two courses with the same name and course description. New information : Keep this course per feedback from School of EI Engr and Computer Science.

CDA 6107 Parallel Computer Architecture 3(3,0)

PR: CDA 4150C, recommended: CDA 5106, graduate standing. PR: EEL 5708 or CDA 5106.

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

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

CDA 6520 Computer Networks Design and Distributive Processing- 3(3,0)
Advanced Computer Networks

PR: CDA 5501 and COP 5611, or C.I.

~~Computer communications networks design considerations, network operating system, distributive processing.~~

Recent advances in computer networks, overlay and multihomed networks, routing and multicasting, Internet friendly protocols, congestion control, QoS-differentiated services, cellular networks.

30 character abbreviation: **Advanced Computer Networks**

COP 5021 Program Analysis 3(3,0)

PR: COP 4020 and COT 4210. 4210 or C.I.

~~Syntactic and Semantic Static analysis of programs. Theoretical and practical limitations, attribute evaluation, data flow analysis, program optimization, intermediate representations code generation, abstract interpretation, type and effect systems. Tools to automate analysis, program analysis.~~

~~**EEL 6065 Formal Approaches to Specification of Software-Intensive Systems 3(3,0)**~~

~~**COP 6XXX Formal Specification of Software Systems**~~

~~PR: Graduate standing or C.I.; and PR: Discrete math and matrix algebra (equivalent to STA 3032, EGN 3420, and EEL 4832); and EEL 5881 or EEL 5860. COT 3100C, MAD 2104, or MHF 3302) or C.I.~~

~~Issues and current research in formal specification and verification of software-intensive systems. mathematical models and formalisms. Projects, presentations, analysis of literature. 30 character abbreviation: **Specification of Software**~~

Tabled : Two courses with the same name and course description. New information : Delete this course per feedback from School of El Engr and Computer Science.

~~**EEL 5708 High Performance Computer Architecture 3(3,0)**
Advanced Computer Architecture~~

~~PR: EEL 4767C. 4767C or CDA 4150C.~~

~~Engineering of high performance computer systems. Memory, processor and control sub-systems design tradeoffs. Virtual and cache memory. Pipelining, vector computing. Modern processor design, instruction-level parallelism, thread-level parallelism, data-level parallelism, memory hierarchy, and I/O.~~

~~30 character abbreviation: **Adv Computer Architecture**~~

EEL 5825 Pattern Recognition 3(3,0)

~~PR: MAP 2302, EGN 3420. PR: EGN 3420 or C.I.~~

~~Graph-theoretic and syntactic methods of pattern analysis. Decision functions; optimum decision criteria; training algorithms; feature extraction; unsupervised learning; data reduction and potential functions.~~

~~Preliminaries of Pattern Recognition, Bayesian Decision Theory, Linear Discriminant Functions, Neural Network Approaches, Decision Tree Classifiers, Unsupervised Learning and Clustering, Non-parametric techniques, and other topics reflecting the state-of-the art.~~

EEL 5874 Expert Systems and Knowledge Engineering 3(3,0)

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

Introduction to expert systems in engineering. Expert systems tools and interviewing techniques. This course is hands-on and project oriented.

~~**EEL 4664 Autonomous Robotic Systems 3(3,0)**~~

~~**EEL 5XXX**~~

~~PR: EEL 3657. 3657 or C.I.~~

~~Robotics with emphasis on kinematics, dynamics, trajectory planning, regulation and tracking, formation control, and cooperative rules and behaviors of robotic vehicles.~~

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