


UCF Graduate Council

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CURRICULUM COMMITTEE MINUTES

Minutes of February 26, 2008 meeting

Members Present	Patricia Bishop, Tosha Dupras
Recorder	Rhonda Nelson
Guests Present	Estelli Ramos, Dan Jones, Stephen Holmes, David Workman, Michael O'Malley, Karen Baraimah
Files	2008-02-26 Course Action Request Minutes 

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

Addition of a graduate certificate in Software Engineering for Web-based Application, ECS.

Dr. David Workman attended the meeting and presented a revised proposal for this graduate certificate. At the last meeting, the committee requested that additional information be submitted that indicated that the faculty participating would be SACS certified. They further requested that an advisory board be established just for this program to provide oversight over the curriculum and standards. Dr. Workman shared additional information on faculty resources and qualifications, and also shared additional information on quality control and program improvement. This certificate had received unanimous approval at the last meeting.

Approval of minutes from February 15. Minutes were approved.

Course revisions, online program change, and name change to the M.A. in English, Technical Writing track to Technical Communication, CAH. Dr. Dan Jones attended the meeting to give a summary of the changes to the program. The department is requesting to change the MA in English track name from Technical Writing to Technical Communication. They would also like to offer this as an online program. No other changes were requested. The committee did request a revised proposal that changes the terminology in the proposal from a degree program to track program to reflect that this is the track that is being changed. Changes were requested for fall 2008. This request received unanimous approval.

Course revisions and total credit hour reduction to the Urban Education Certificate, ED. The committee began to review this proposal but had questions regarding the course title and questions regarding new courses. This committee voted to table this certificate until the next meeting when a representative could be present to address these issues.

Curriculum changes and name change to the M.Ed. in C. & I. to M.Ed. in Teacher Leadership, ED. Drs. Mike O'Malley and Karen Baraimah were present to give a summary of this proposal. They are proposing a degree name change from MEd in Curriculum and Instruction to MEd in Teacher Leadership. Two new courses will be added and two courses will be deleted. They are also proposing changing the Urban Education Specialization to a track and changing the names of some of the remaining specializations. A discussion was held on the possibility of changing the specializations to tracks also. Dr. O'Malley and Baraimah were going to consider this possibility. There were several additional small corrections in the proposal that were suggested. This proposal received unanimous approval with the changes as discussed. Dr. O'Malley will do reformatting and send revision to Graduate Studies.

Inactivation of the MIS track to the Ph.D. in Business Administration. The department has requested to inactivate this track due to enrollment declines and a decline in faculty resources. The current national market demand for this track is also quite limited at this time. This request received unanimous approval.

Review of courses and special topics. For a complete list of courses approved, review the attachment listed at the top of this page.

Announcements and adjournment. Next meeting: March 21, 12:30, MH 243.

Graduate Council Curriculum Subcommittee **Course Minutes 02-26-08**

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

College of Arts & Humanities Special Topics

AMH 5937 Sect 01 CAH-History 3(3,0)

ST:History of Technology: PR: Graduate standing, or C.I. Introduces the historiography of technology, technology's role in historical events, and society's role in shaping technology.

30 character abbreviation: **ST:History of Technology**

AGENDA NOTES: Course Addition also being proposed.

LAH 5937 Sect 01 CAH-History 3(3,0)

ST:Colonial Transformations in Latin America: PR: Graduate standing, or C. I. Examines the major themes of Latin American colonial history from pre-Colombian times to 1898.

30 character abbreviation: **ST:Col Transform in Latin Amer**

College of Education Special Topics

EDF 6938 Sect 01 ED-Educational Studies 3(3,0)

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

30 character abbreviation: **ST: Teach Ldrshp Educ Equity**

Tabled : Will review with the Urban Ed certificate.

EDF 6938 Sect 01 ED-Educational Studies 3(3,0)

ST:Public Policy and Urban Education: PR: Graduate Status. Critical analysis of public policy formation, implementation, and evaluation with regard to their impact on urban schools and communities.

30 character abbreviation: **ST:Public Policy & Urban Educ**

AGENDA NOTES: Course Addition also being proposed.

Tabled : Will review with the Urban Ed certificate.

EDF 6938 Sect 01 ED-Educational Studies 3(3,0)

ST:Teaching and Learning in Urban Settings: PR: Graduate Status. Analysis and discussion of instructional and assessment methods that seek to improve the quality of teaching and learning in urban schools.

30 character abbreviation: **ST:Teach & Learn in Urban Set**

AGENDA NOTES: Course Addition also being proposed.

EDG 6938 Sect 01 ED-Educational Studies 3(3,0)

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

30 character abbreviation: **ST: Seminar in Teacher Ldrshp**

AGENDA NOTES: Course Addition also being proposed.

Tabled : Will review with the Urban Ed certificate.

EDG 6938 Sect 01 ED-Educational Studies 3(3,0)

ST:Social Contexts of the Urban Classroom: PR: Graduate Status. Review, analyze, and contextualize classroom dynamics embedded in urban communities and the institution of schooling.

30 character abbreviation: **ST:Social Contexts Urban Class**

AGENDA NOTES: Course Addition also being proposed.

Approved : pending adding Seminar in Appl Lrn & Instr I as prereq. (This has been clarified.)

EDP 6938 Sect 01 ED-Educational Studies 3(3,0)

ST: Seminar in Applied Learning and Instruction II: PR: Graduate standing or C.I. An overview of contemporary theories and research in human learning and instruction. Emphasis on cognition, critical thinking, problem-solving, individual differences, and assessment of learning outcomes.

30 character abbreviation: **ST: Sem in Ap Learn & Inst**

EDP 6938 Sect 01 ED-Educational Studies 3(3,0)

ST: Seminar in Applied Learning and Instruction I: PR: Graduate standing or C.I. An overview of contemporary theories and research related to human learning and instruction with a focus on affective and motivational issues surrounding learning and instruction.

30 character abbreviation: **ST: Sem in Ap Learn & Inst I**

RED 6938 Sect 01 ED-Teaching & Learning Princ 3(3,0)

ST: Deepening Content Area Understandings through Literacy: PR: Graduate standing or C.I. Identification and analysis of metacognitive strategies within content area literacy and development metacognitive curriculum linking content area and literacy.

30 character abbreviation: **ST: Deepening Content Undr Lit**

Health & Public Affairs Special Topics

SOW 6938 Sect 01 HPA-Social Work 3(3,0)

ST:Documentation Skills for Helping Professionals: PR: MSW Social Work Students, C/I. Study of documentation skills and record keeping for helping professionals

30 character abbreviation: **ST:Document Skills Helping Pro**

SOW 6938 Sect 01 HPA-Social Work 3(3,0)

ST:Gay and Lesbian Experience in American Society: PR: Graduate Status or C.I. Study of sexual orientation in a cultural context, the effects of social policy on the Gay and Lesbian community and the role of social work advocacy.

30 character abbreviation: **ST:Gay & Lesbian Expr in Amer**

SOW 6938 Sect 01 HPA-Social Work 3(3,0)

ST:Interventions with Substance Abusers: PR: Graduate standing or C.I. Empirically based interventions for working with persons who abuse alcohol and other drugs. Course will focus on social work treatment with this population.

30 character abbreviation: **ST:Intervention w Substnc Abus**

SOW 6938 Sect 01 HPA-Social Work 3(3,0)

ST:Prevention and Treatment of Adolescent Substance Abuse: PR: Graduate Status or C.I. An in depth critical analysis of prevention, intervention, treatment, recovery and relapse issues and public policy regarding adolescents with substance abuse problems.

30 character abbreviation: **ST:Prevent & Treat Adol Subst**

SOW 6938 Sect 01 HPA-Social Work 3(3,0)

ST:Social Work in Health Settings: PR: Graduate standing or C.I. Study of social work roles, interventions, and issues related to helping clients in health settings.

30 character abbreviation: **ST:Social Work in Health Setti**

SOW 6938 Sect 01 HPA-Social Work 3(3,0)

ST:Social Work Practice in Schools: PR: Admission to MSW program or Social Work Graduate Certificate or C.I. Enhance clinical knowledge and skills that are essential to effective school based practice with students, teachers, families, schools and communities.

30 character abbreviation: **ST:Social Work Pr in Schools**

College of Arts & Humanities Course Action Additions

AMH 5XXX CAH-History 3(3,0)

History of Technology: PR: Graduate standing, or C. I. Introduces the historiography of technology's role in historical events, and society's role in shaping technology.

30 character abbreviation: **History of Technology**

AGENDA NOTES: Special Topic also being proposed.

ASH 5___ CAH-History 3(3,0)

U.S. China Relations: PR: Graduate standing or C. I. An in-depth study of the significant relations between China and the United States since the 18th century.

30 character abbreviation: **U.S. China Relations**

MUE 6XXX CAH-Music 3(3,0)

Assessment and Evaluation in Music Education: PR: Graduate standing in Music or C.I. Music learning theory and assessment in the K-12 music classroom.

30 character abbreviation: **Assess & Eval in Music Educ**

MUE 6XXX CAH-Music 3(3,0)

Current Topics in Music Education: PR: Graduate Standing in Music or C. I. Study and application of current topics and issues in music education. May be used in the degree program a maximum of 2 times only when course content is different.

30 character abbreviation: **Current Topics in Music Educ**

Approved : pending clarification on prereq. (This has been clarified.)

MUL 5XXX CAH-Music 3(3,0)

Guitar Literature and Pedagogy: PR: Graduate standing in Music or C. I. Survey of significant repertoire and pedagogy for classical guitar.

30 character abbreviation: **Guitar Literature and Pedagogy**

College of Nursing Course Action Additions

NGR 6___ CON-Nursing 3(3,0)

Application of Instructional Technology for Nursing Education: PR: NGR 6XXX Teaching Strategies for Health Professionals or C.I. An analysis of effective teaching learning strategies with emphasis on developing techniques for using instructional technology in nursing education.

30 character abbreviation: **App Instl Tech Nurs Educ**

College of Sciences Course Action Additions

MAP 6XXX COS-Mathematics 3(3,0)

Mathematical Fluid-Flow Theory I: PR: MAP 2302, MAP 4363, MAP 4307, PHY 3220 or equivalent, or CI. Mathematical theory of incompressible fluid flows along with analytical methods in solving the equations of fluid dynamics in various situations.

30 character abbreviation: **Math Fluid-Flow Theory I**

MAP 7XXX COS-Mathematics 3(3,0)

Mathematical Fluid-Flow Theory II: PR: MAP 6XXX (Mathematical Fluid-Flow I) or CI. Mathematical theory of compressible potential flow, nonlinear acoustics, exact solutions to equations of viscous fluid flow, viscous fluid flows at low or high Reynolds numbers.

30 character abbreviation: **Math Fluid-Flow Theory II**

CLP 7XXX COS-Psychology 3(3,0)

Clinical Neuropsychological Assessment: PR: Admission to Clinical Psychology Ph.D. program or CI. Provides foundational knowledge in clinical neuropsychological assessment, with a focus on assessment of adult clinical patients by doctoral-level clinical psychologists.

30 character abbreviation: **Clinical Neuropsych Assess**

Engineering & Computer Science Course Action Additions

Duplicate – delete this one. (This has been clarified.)

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

Pen-Based User Interfaces: PR: CAP 5725 or C.I. Pen-Based User Interfaces is a course designed to give students a thorough understanding of the techniques, algorithms, and evaluation methodologies used in designing and developing pen-, sketch-, and gesture-based user interfaces. 30 character abbreviation: **Pen-Based User Interfaces**

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

Pen-Based User Interfaces: PR: CAP 5610 or C.I. Techniques, algorithms, and evaluation methodologies used in designing and developing pen-, sketch-, and gesture-based user interfaces. 30 character abbreviation: **Pen-Based User Interfaces**

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**

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: **Semiconduct Matrl & Device Char**

College of Education Course Action Additions

PET 5XXX ED-Child, Family & Comm Sci 3(3,0)

Critical Issues: Ethics in Coaching and Sport: PR: Graduate Standing or C.I. Specialization in coaching and sport leadership in self-evaluating, examining, and developing philosophy, values, and moral reasoning skills.

30 character abbreviation: **Crit Iss: Ethics Coaching & Sp**

PET 5XXX ED-Child, Family & Comm Sci 3(3,0)

Motivational Aspects of Coaching: PR: Graduate standing or C.I. Assists students to understand and conceptually integrate mental and physical performance, mental rehearsal, motivation, effort, persistence, adherence and compliance, measurement and evaluation, and other related topics of interest.

30 character abbreviation: **Motivational Aspects Coaching**

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

Race and Gender in Coaching and Sport Leadership: PR: Graduate standing or CI. Combines the content from two major areas of study in sport leadership to prepare students to work in multicultural and diverse settings.

30 character abbreviation: **Race & Gender Coaching & Sport**

Tabled : Will review with the Urban Ed certificate.

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

Public Policy and Urban Education: PR: Graduate Status. Critical analysis of public policy formation, implementation, and evaluation with regard to their impact on urban schools and communities.

30 character abbreviation: **Public Policy & Urban Educ**

AGENDA NOTES: Special Topic also being proposed.

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 : Will review with the Urban Ed certificate.

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

Teaching and Learning in Urban Settings: PR: Graduate Status. Analysis and discussion of instructional and assessment methods that seek to improve the quality of teaching and learning in urban schools.

30 character abbreviation: **Teach & Learn in Urban Set**

AGENDA NOTES: Special Topic also being proposed.

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**

AGENDA NOTES: Special Topic also being proposed.

Tabled : Will review with the Urban Ed certificate.

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

Social Contexts of the Urban Classroom: PR: Graduate Status. Review, analyze, and contextualize classroom dynamics embedded in urban communities and the institution of schooling.

30 character abbreviation: **Social Contexts Urban Class**

AGENDA NOTES: Special Topic also being proposed.

ARE 6XXX ED-Teaching & Learning Princ 3(3,0)

Advanced Research Seminar in Art Education: PR: Graduate standing or C.I. Examines 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.

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

ARE 6XXX ED-Teaching & Learning Princ 3(3,0)

Assessment Seminar in Art Education: PR: Graduate standing or C.I. Examines 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**

ARE 6XXX ED-Teaching & Learning Princ 3(3,0)

Internship Seminar in Art Education: PR: Graduate standing or C.I. Internship in pre K-16 or as a community based art educator under supervision of a certified classroom teacher.

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

Approved : pending clarification on prereq. (This has now been clarified.)

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 Education programs, and CI. Examines 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**

Approved : pending clarification on prereq. (This has now been clarified.)

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 Education programs, and CI. Successful completion of ESE 6235 or an approved equivalent. Examines issues of curriculum theory, research, and practice at the post-secondary level in science education.

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

Health & Public Affairs Course Action Additions

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

Advanced Research Methods in Criminal Justice: PR: CCJ 6704, graduate standing or C.I. 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**

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

Proseminar in Criminal Justice: PR: C.I. Capstone experience for the Criminal Justice Professional track. Reviews and integrates the six other courses in the core curriculum.

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

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

Copycat Crime and Criminals: PR: Graduate standing or C.I. Explores the nature and prevalence of copycat crime while reviewing the associated theories, research and criminal justice policies.

30 character abbreviation: **Copycat Crime & Criminals**

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).

College of Arts & Humanities Course Action Revisions

TSL 6440 ~~Problems in Evaluation in ESOL~~ 3(3,0)
Assessment Issues in TESOL

PR: Graduate Standing of C.I.

This course provides for the development of sound assessment knowledge necessary to prepare students to apply second language assessment theories, principles, and current research.

30 character abbreviation: **Assessment Issues in TESOL**

Engineering & Computer Science Course Action Revisions

ENV 5356 ~~Solid Waste Management~~ 3(3,0)
Solid and Hazardous Waste Management4(4,0)

PR: PR: Grade of "C" (2.0) or better in ENV 3001.

~~Engineering design, planning, and analysis problems associated with storage, collection, processing, and disposal of solid wastes.~~

Engineering design, planning, and analysis problems associated with storage, collection, processing, and disposal of solid and hazardous wastes.

30 character abbreviation: **Solid and Hazardous Waste Mana**

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 expresion of emotion for autonomous agents. Understand affective computing social implecations.~~

Classical and probablistic 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 ~~5610~~. 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.~~

~~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 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**

~~**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**

~~**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**

Tabled : request revised description for clarification of course.

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.~~

~~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 EI Engr & Comp Sci. Requested deletion for this course.

~~**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.~~

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

Tabled : Two courses with the same name and course description. New information : delete this course per feedback from School of EI Engr & Comp Sci. Requested deletion for this course.

**EEL 6707 ~~Parallel Processing- 3(3,0)~~
Parallel Computer Architecture**

PR: ~~EEL 5708~~: ~~5708~~ or ~~CDA 5106~~.

~~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.

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.

Health & Public Affairs Course Action Revisions

SOW 5735 Documentation Skills for Helping Professionals 3(3,0)

SOW 6XXX

PR: MSW Social Work Students, C/I.

Study of documentation skills and record keeping for helping professionals

30 character abbreviation: Document Skills Helping Profes

SOW 5670 Gay and Lesbian Experience in American Society 3(3,0)

SOW 6XXX

~~PR: seniors or graduate status.~~ PR: Graduate Status or C.I.

~~context: resources and policies affecting Study of sexual orientation in a cultural people; and professional considerations in interventions with and for gay and lesbian clients. context, the effects of social policy on the Gay and Lesbian community and the role of social work advocacy.~~

SOW 5712 Interventions with Substance Abusers 3(3,0)

SOW 6XXX

PR: Graduate standing or C.I.

Strategies Empirically based interventions for working with persons who abuse drugs, alcohol, alcohol and other substances. drugs. Course will focus on social work treatment with this population.

30 character abbreviation: Intervention w Substnc Abusers

SOW 5713 Prevention and Treatment of Adolescent Substance Abuse 3(3,0)

SOW 6XXX

PR: Graduate Status or C.I.

~~An indepth review of prevention, intervention and treatment of Adolescent Substance Abuse~~

An in depth critical analysis of prevention, intervention, treatment, recovery and relapse issues and public policy regarding adolescents with substance abuse problems.

SOW 5603 Social Work in Health Settings 3(3,0)

SOW 6XXX

PR: Graduate standing or C.I.

Study of social work roles, interventions, and issues related to helping clients in health settings.

SOW 5635 Social Work Practice in Schools 3(3,0)

SOW 6XXX

~~PR: Admission to MSW program or Social Work Graduate standing Certificate~~ or C.I.

Study of knowledge, skills and abilities necessary for competent Enhance clinical knowledge and skills that are essential to effective school based practice with students, their teachers, families, schools and communities.