UCF Graduate Council

CURRICULUM COMMITTEE MINUTES

Minutes of January 21, 2010 meeting

Members Present	Patricia Bishop, Deborah Breiter, Naim Kapucu, Joyce Nutta, Tison Pugh, Sergio Tarfur, James Turkson, Art Weeks
Recorder	Rhonda Nelson
Guests Present	Diane Wink (rep. for CON), Michelle Spinella, Randy Finch, Rosemarye Taylor, Grant Hayes, Xin Li
Files	2010-01-21 Course Action Request Minutes

Welcome and call to order. The meeting was called to order at 12:00 p.m. by Joyce Nutta, chair, who welcomed guests and established a quorum. The minutes of the last meeting held on December 3 were approved with no changes.

Courses and special topics. Dr. Nutta pointed out to the group that the syllabi for all courses are on file in Graduate Studies for members to review. The Course Database is also available at the meetings so that syllabi can be reviewed during the meeting. Two courses were tabled for additional information:

1. The committee suggested considering a prerequisite of at least a 3000 level, possibly a calculus course.
2. EMA 6611 Optoelectronics Materials Processing course was tabled as the committee requested rationale for the change in the prerequisite from a 5000 level course to a 3000 level. The committee suggested using a 4000 level course.

A number of additional courses and special topics were reviewed and approved. For a complete list of courses approved, review the attachment listed at the top of this page.

Revisions to the M.S. in Mathematical Science, COS. Dr. Li presented an overview of the program revisions. The proposal provides unification between the MS and PhD programs, simplification of both programs, and also the removal of the strict distinction between pure and applied tracks. The total credit hours will remain the same. Changes were made to the required and electives with the required hours changing from 18 to 15 and the electives from 6 to 9 credit hours. These revisions were approved.

Revisions to the Ph.D. in Mathematics, COS. Dr. Li presented an overview of the program revisions. The proposal provides unification between the MS and PhD programs, simplification of both programs, and also the removal of the strict distinction between pure and applied tracks. Changes were made to the required and electives courses with credit hours remaining the same for each. These revisions were approved.

Curriculum revisions to the Higher Education track, PH.D. in Education, COE. Dr. Spinella presented the changes for this track. The department has requested to replace three courses in the specialization area as three of the courses currently in that area were eliminated. These changes will align the PhD with the courses currently offered in Higher Education and Policy Studies. These revisions were approved.

Addition of an Executive Ed.D. track, Ed.D. in Ed Leadership, COE. Dr. Taylor presented a summary of the changes to this program. She explained that the educational leadership faculty collaborated to redesign the EdD in Educational Leadership. The proposed program has a total of 54 credits including a doctoral research field study in lieu of the traditional dissertation. Plans are to move to a cohort group only so that more students can graduate in a more timely fashion. A question was raised on why the need to call the program an Executive Ed.D. Dr. Taylor pointed out that this is in alignment with what other institutions are moving towards. Dr. Kapucu questioned the three new courses in Leadership and asked if there was any discussion with Business Administration on these courses. Discussion was held on these courses and Dr. Taylor indicated that Ed Leadership students would be the only students that could take these courses. For clarification, the department agreed to change the title of the courses to include the word educational. Dr. Bishop asked what was the long-term vision of the program. Dr. Hayes indicated that they are planning to phase out the current K-12 track and that January would be the last admission date for the EdD Ed Leadership, K-12 program. The committee requested that a request be sent forward in the near future to request suspension of admissions into this track. This track addition was approved.

Review of materials and supplies fees requests. Discussion was held on the materials and supplies fees requests to gain consistency in what items were appropriate for approval each year. The art and education fees that were not approved at a previous meeting were reviewed again. Randy Finch was available to provide information on the art fees. After much discussion and review of these fees, the consensus of the committee was to have the fee approval vote from the previous meeting stand as is. The committee agreed that additional rationale should be provided on the form to assist departments in determining expendable and consumable items. This rationale will be reviewed and approved at the next meeting. The suggested rationale included:

1. Materials and supplies that were specialized and not readily available or materials and supplies that would save students money by bulk purchase are legitimate uses of these fees.
2. All materials and supplies fees must be spent on only the items listed on the table.
3. All materials and supplies fees for graduate courses must be approved by the graduate Council; any previous materials and supplies fees being levied but not approved by the Graduate Council should come forward and document how the fees are being used.
4. All materials and supplies fees should be reviewed every three years.

Announcements and adjournment. The meeting was adjourned at 1:20 p.m.

Graduate Council Curriculum Committee
Course Minutes for 01-21-2010

All courses were approved unless otherwise noted. Any notation refers to the course directly below the notation.

College of Arts & Humanities Course Action Additions

Tabled. Needs more rigor for grad course. SPLIT CLASS

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

Analysis of Twentieth Century Music: PR: Graduate Standing in Music or C.I. Analysis of music in a selection of the different styles practiced in the 20th century, with an emphasis on Western art music. *Fall.*

30 character abbreviation: **Analysis Twentieth C. Music**

Tabled. Needs more rigor for grad course. SPLIT CLASS

Analysis

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

Counterpoint: PR: Graduate standing in Music or C.I. Principles of counterpoint and the study of contrapuntal styles in Western music from the 16th century to the present day. *Even Spring.*

30 character abbreviation: **Counterpoint**

College of Sciences Course Action Additions

MS/PhD Math Program Revisions

MAA 5XXX COS-Mathematics 3(3,0)

Analysis I: PR: MAS 3106 or C.I. Real numbers, limits, differentiation, Riemann integrals, Riemann-Stieltjes integrals, calculus in R^n,; metric and normed spaces, contraction mapping theorem, inverse and implicit functions. *Fall.*

30 character abbreviation: **Analysis I**

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

Analysis II: PR: MAA 5xxx (Analysis I) or C.I. Topological Spaces, Banach Spaces, Hilbert Spaces, Bounded Linear Operators, Distribution and; Fourier Transform, Measure Theory and Function Spaces. *Spring.*

30 character abbreviation: **Analysis II**

Engineering & Computer Science Course Action Additions

EMA 6XXX ECS-Mechanical/Matrls/Aerosp 3(3,0)

Colloids and Interface Engineering: PR: EMA 5104 or EMA 5060 or C.I. Surface and interfacial tension of liquids, self-assembled monolayers, applications of scanning probe microscopes in interfaces, forces in colloidal systems, stability of macro emulsions, formation and properties of microemulsions, self-assembly. *Occasional.*

30 character abbreviation: **Colloids & Interface Eng**

College of Education Course Action Additions

Executive Ed.D. in Ed Leadership courses

EDA 7XXX ED-Ed Research, Tech & Lead 3(3,0)
Community Outreach for Educational Leaders: The course focus will be on developing understandings of the essential relationships between schools and community organizations and the community organizations with themselves. *Fall.*
30 character abbreviation: **Commun Outreach Educ Leaders__**

EDA 7XXX ED-Ed Research, Tech & Lead 3(3,0)
Dynamics of Children, Families, & Organizations: Implications for Educational: This course will provide an understanding of diversity in contemporary families, theoretical perspectives, and services, as well as creating safe schools and/or organizations. *Occasional.*
30 character abbreviation: **Dyn Child Fam & Org: Implicatn**

EDA 7XXX ED-Ed Research, Tech & Lead 3(3,0)
Human Resource Development in Educational Organizations: The purpose of this course is to provide understanding of the functions of recruiting, selecting, placing, evaluating, and compensating people. *Fall.*
30 character abbreviation: **Human Resource Dev in Educ Org**

EDA 7XXX ED-Ed Research, Tech & Lead 3(3,0)
Instructional Leadership: Study and analysis of research on leadership resulting in improved student achievement at the local, state, and national levels is the focus of this course. *Spring.*
30 character abbreviation: **Instructional Leadership**

This course not connected with Executive Ed.D. in Ed Leadership

EDF 7XXX ED-Ed Research, Tech & Lead 3(3,0)xxxx
Quantitative Research Synthesis: PR: Equivalent to EDF 6481 and EDF 7403. This course addresses the problem of the accumulation of evidence in scientific research through the use of quantitative methods for research synthesis and meta-analysis. *Spring.*
30 character abbreviation: **Quant Research Synthesis_____**

Executive Ed.D. in Ed Leadership courses

EDF 7XXX ED-Ed Research, Tech & Lead 3(3,0)
Research in Leadership 2: Methods applied to statistical problems and resolution of selected problems appropriate for statistical applications is the focus of the course. *Spring.*
30 character abbreviation: **Research in Leadership 2I____**

EDF 7XXX ED-Ed Research, Tech & Lead 3(3,0)
Research in Leadership 3: Research 3 continues the development of respect for the scientific spirit of inquiry and to build upon the problem-solving and research strategies studied in Research 1 and Research 2. The course is intended to enhance students' comfort and confidence with research and statistical tools that will enhance their professional effectiveness. *Spring.*
30 character abbreviation: **Research in Leadership 3**

EDF 7XXX ED-Ed Research, Tech & Lead 3(3,0)
Research Leadership I: Study, analysis, and understanding of applied educational research methods are the focus of the course. *Fall.*
30 character abbreviation: **Research Leadership I**

College of Sciences Course Action Revisions

MS/PhD Math Program Revisions

MAA 6405 Complex Variables 3(3,0)
PR: MAA ~~4226, MAP 4307, and graduate standing~~ 5xxx (Analysis I) or C.I.
~~Analytic functions. Harmonic functions. Integration in the complex plane. Laurent series. Residue calculus. Inversion of Laplace transformations. Maximum Modulus Principle. Conformal mappings.~~
Complex plane, analytic functions, harmonic functions, Cauchy's theorem and integral formula,; maximum modulus principle, Laurent series, singularities, the residue theorem.

MAP 5336 Ordinary Differential Equations and Applications 3(3,0)
~~PR: MAP 2302, and graduate status or senior standing~~ PR: MAA 5xxx (Analysis I) or C.I.
Existence and uniqueness of solutions of differential equations, systems of ordinary differential equations, autonomous systems, phase plane analysis, stability, bifurcations.
30 character abbreviation: **Ordinary Differential Equation**

MAP 6385 Applied Numerical Mathematics 3(3,0)
PR: MAP ~~5117, MAA 5210, graduate standing,~~ 5117 or C.I.
~~Gaussian elimination, Gauss-Seidel iteration, optimization procedures,~~ Solution of linear systems, numerical linear algebra, ~~equations.~~ numerical solution of ordinary differential equations, numerical partial differential equations.

MAS 5145 Advanced Linear Algebra and Matrix Theory 3(3,0)
PR: MAS ~~3105, and graduate status or senior standing~~ 3106 or C.I.
~~LU and LDU decompositions, linear spaces, inner product spaces, systems of linear equations, eigenvalues and canonical forms, variational principles and applications.~~
Linear spaces, subspaces, linear transformations, matrices, eigenvalues and eigenvectors, Jordan; forms, positive definite matrices, bilinear and quadratic forms, functions of matrices.
30 character abbreviation: **Adv Linear Algebra & Matrix Th**

Tabled. Committee requesting a 3000 level prerequisite course, possibly a Calculus course.

MAT 5711 Scientific Computing 3(3,0)
PR: MAC 2313, MAP ~~2302, graduate status or senior standing,~~ 2302 or C.I.
~~Basic programming skills using Mathematica, Maple, Matlah, or Java in solving basic scientific computing problems; preparing students for advanced computational methods and algorithms.~~
Matlab fundamentals, computer arithmetic, nonlinear equations, polynomial interpolation, divided; differences, splines, curve fitting, least-squares method, numerical differentiation and Integration.

This course not connected with MS/PhD Math Program Revisions

PHZ 5432 Introduction to Soft Condensed Matter Physics 3(3,0)
PR: PHY 3513 or C.I.

~~Introduction to the physics of polymers, colloids, surfactants using basic tools of statistical mechanics. Graded S/U.~~
Introduction to the physics of polymers, colloids, surfactants using basic tools of statistical mechanics. *Will no longer be graded S/U.*

Engineering & Computer Science Course Action Revisions

~~CAP 5419~~ 3D Computer Vision 3(3,0)
CAP 6XXX
~~PR: C.I.~~ PR: CAP 5415 or EEL 5820 or C.I.
2D/3D Projective Geometry, Projective Transformation Estimation, Camera Calibration, Single View Modeling, Bi-focal Modeling, Fundamental Matrix, Stratified Structure, Homography, Tri-focal Tensor, Auto-Calibration, Cheirality.

EAS 5407 Mechatronic Systems 3(3,0)
PR: EML ~~4804C or EAS 4404C.~~ 4312C or C.I.
Discrete control techniques for aerospace mechatronic systems. Controller design, test and evaluation applications.

Tabled. Committee requesting clarification on changing prereq. from 5000 to a 3000 level.
~~EMA 6611C Optoelectronic Materials Processing 3(2,2)~~
EMA 6611 Optoelectronics Materials Processing 3(3,0)
~~PR: EMA 5317,~~ PR: EGN 3365, Graduate standing or C.I.
~~Techniques~~ Electronic Theory for Materials Preparation, Doping, Metallization, Effect of Materials Properties on Device ~~(e.g.,~~ (eg. Solar Cells, ~~lasers and transistors) performances, electronic and optical characterization of device materials.~~ LEDs, and Detectors) Performances.
30 character abbreviation: **Optoelect Materials Processing**

College of Education Course Action Revisions

Executive Ed.D. in Ed Leadership courses
EDA 7225 ~~Educational Personnel Administration~~ 3(3,0)
Advanced Legal Studies in Education
PR: Doctoral standing or C.I.
~~Examination of the personnel function in educational institutions including planning, recruitment, selection, placement, induction, appraisal, collective bargaining and contract administration.~~
In depth study of current legal issues confronting educational leaders and their private sector counterparts.
30 character abbreviation: **Advanced Legal Studies in EDUC**

EDA 7274 ~~Seminar: Applications of Technology to Educational Leadership 3(4,0)~~
Learning and Accountability 3(3,0)
~~PR: EDA 6260 or C.I.~~
Study of ~~administrative and leadership technology~~ analytical applications at the school building or district ~~level.~~ level for instructional improvement.
30 character abbreviation: **Learn & Acctn**

EDA 7943 ~~**Field Project**~~ ~~**3(3,0)**~~
Field Project in Educational Leadership **3(3-6,0)**

PR: C.I.

Field experience and projects for advanced graduate students. Participation in school plant surveys, accreditation visitation, curriculum studies, administrative analysis, field research. May be repeated for credit.

30 character abbreviation: **Field Proj Ed Lead**