

UCF Graduate Council

[Home](#) > [Curriculum](#) > [Minutes](#)

CURRICULUM COMMITTEE MINUTES

Minutes of March 22, 2017 meeting

Members Present Steven Ebert, Devon Jensen, Charles Kelliher, Mercedesh Khajavikhan, Jennifer Sandoval, Terrie Sypolt, Asli Tasci, Art Weeks

Recorder Debra Winter

Guests Present Danae Barulich, Mary Ann Feldheim, Jana Jasinski, Qiyu Sun, Leben Goldman, Kallie Reyes, Ranetta Guinn, J. P. Mendez, Atsusi Hirumi, Joe Donoghue, Keith Koons, Ross Wolf

Staff Members Michele Pozdoll

Files [2017-03-22 Course Minutes](#) 

Welcome and call to order. Charles Kelliher, chair, called the meeting to order at 2:30 p.m. and welcomed the committee and guests. A quorum was established. The minutes (curriculum, course) from the March 8, 2017 meeting were reviewed and approved.

The committee reviewed the course requests on the course agenda (see the Course Minutes). The committee tabled requests for BME 5937 and SPN 5705; when additional information is collected, these course requests will be reviewed again by the committee via email. All requested documentation was received, and the BME 5937 and SPN 5705 course requests were subsequently reviewed and approved via email April 7, 2017.

Addition of COS Math MS – Financial Mathematics track, effective Fall 2017. Approved.

Addition of COS Math PhD – Financial Mathematics track, effective Fall 2017. Approved.

Request for COS split level class GLY 4XXX/5XXX Marine Geoscience. Approved.

Request for COS split level class PCB 4XXX/5XXX Wildlife Genomics. Approved.

Inactivation of COHPA Social Work MSW tracks, effective Summer 2017. This applies to these MSW tracks: Daytona Part Time, Osceola Part Time, and Daytona Regional Campus. Approved.

Revision to COHPA Master of Public Administration / Master of Nonprofit Management Dual Degree, effective Fall 2017. Approved.

Name change for CEHP Education PhD, Instructional Technology track, effective Fall 2017. New track name is Instructional Design and Technology. Approved.

Addition of COM Biomedical Sciences MS, Integrated Medical Sciences track, effective Fall 2017. Approved.

Request for CAH split level class MUS 4XXX/5XXX Music Performance Workshop. Approved.

Review of graduate certificates for sunseting (report). The Graduate Council Curriculum Committee reviews graduate certificate programs as part of the sunseting provision set forth by the Faculty Senate. The rationale for this yearly review is to identify programs with no enrollment or marginal enrollment and establish whether they should be sunsetted in order to ensure that graduate certificate programs are kept current. The committee reviewed the 2016-2017 graduate certificate report and identified two certificate programs that need inquiry to determine whether they should be sunsetted.

The meeting adjourned at 2:25 p.m. This is the last meeting for the 2016-2017 year.

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College of Sciences Course Additions

Split Level Class

PCB 5XXX **COS-BIOL** **3(3,0)**

Wildlife Genomics: PR: Graduate student in Biology MS or Conservation Biology PhD. Understanding of how Genomic methods are applied to problems in wildlife biology, with an emphasis on vertebrate animal species in terrestrial and marine ecosystems. *Odd Fall.*

Abbrev: (17 of 30 chars) Wildlife Genomics

Discussion with others: None.

Rationale: Much needed addition to the graduate and undergraduate curriculum.

Majors taking course: None.

MAP 5XXX **COS-MATH** **3(3,0)**

Computational Methods for Financial Mathematics I: PR: Admission to the Financial Mathematics Track in the M.S. in Mathematical Sciences or C.I. Numerical modeling, Numerical solutions, stability issues for Ordinary and Partial Differential Equations within the setting of financial mathematics. *Fall.*

Abbrev: (22 of 30 chars) Comp Method Fin Math I

Discussion with others: Discussions have taken place with the Department of Finance. See the attached letter.

Rationale: This is a required course for the new Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics.

Majors taking course: Mathematical Science MS - Financial Mathematics Track

MAP 5XXX **COS-MATH** **3(3,0)**

Differential Equations for Financial Mathematics: PR: MAP 4341 or C.I. Initial value problem, terminal value problem, existence and uniqueness, Gronwall's inequality, linear system theory, parabolic PDE, elliptic PDE, basic regularity theory, maximum principle, stability. *Fall.*

Abbrev: (22 of 30 chars) Diff Eq Financial Math

Discussion with others: Discussions have taken place with the Department of Finance. See the attached letter.

Rationale: This is a required course for the new Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics.

Majors taking course: Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics

MAP 5XXX **COS-MATH** **3(3,0)**

Financial Mathematics I: PR: MAP 5XXX (Computational Methods for Financial Mathematics I) or C.I. Single-period market, arbitrage, risk-neutral probability measure, market completeness, mean-variance portfolio analysis, multi-period market, binomial tree, contingent claim pricing. *Fall.*

Abbrev: (23 of 30 chars) Financial Mathematics I

Discussion with others: Discussions have taken place with the Department of Finance. See the attached letter.

Rationale: This is a required course for the new Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics.

Majors taking course: Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics

MAP 5XXX **COS-MATH** **1(2,0)**

Proseminar for Financial Mathematics: PR: Admission to the Financial Mathematics Track in the M.S. in Mathematical Sciences or C.I. Seminar to develop basic career skills in Financial Mathematics. *Odd Fall.*

Abbrev: (25 of 30 chars) Proseminar Financial Math

Discussion with others: Discussions have taken place with the Department of Finance. See the attached letter.

Rationale: This is a required course for the new Financial Mathematics tracks for the MS in Mathematical Sciences.

Majors taking course: Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics

MAP 5XXX **COS-MATH** **2(2,0)**

Seminar in Financial Mathematics: PR: MAP 5XXX (Proseminar in Financial Mathematics) or C.I. Seminar to develop advanced career skills in Financial Mathematics. *Odd Fall.*

Abbrev: (22 of 30 chars) Seminar Financial Math

Discussion with others: Discussions have taken place with the Department of Finance. See the attached letter.

Rationale: This is a required course for the new Financial Mathematics tracks for the MS in Mathematical Sciences.

Majors taking course: Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics

MAP 6XXX **COS-MATH** **3(3,0)**

Computational Methods for Financial Mathematics II: PR: MAP 5XXX (Computational Methods for Financial Mathematics I) or C.I. Monte-Carlo methods, Numerical aspects of stochastic differential equations. *Spring.*

Abbrev: (27 of 30 chars) Comp Meth Financial Math II

Discussion with others: Discussions have taken place with the Department of Finance. See the attached letter.

Rationale: This is a required course for the new Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics.

Majors taking course: Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics

MAP 6XXX **COS-MATH** **3(3,0)**

Financial Mathematics II: PR: MAP 5XXX Financial Mathematics I or C.I. Theoretical discussion of Stochastic processes, Brownian motion, Ito's integral, Ito's formula, martingales, Girsanov's transformation, stochastic differential equations, option pricing. *Spring.*

Abbrev: (17 of 30 chars) Financial Math II

Discussion with others: Discussions have taken place with the Department of Finance. See the attached letter.

Rationale: This is a required course for the new Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics.

Majors taking course: Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics

MAP 6XXX **COS-MATH** **3(3,0)**

Risk Management for Financial Mathematics: PR: MAP 5XXX (Financial Mathematics I) or C.I. Credit risk, counter party credit risk, securitizations, market risk, operational risk, asset liability management, Basel III regulations. *Fall*.

Abbrev: (30 of 30 chars) Risk Management Financial Math

Discussion with others: Discussions have taken place with the Department of Finance. See the attached letter.

Rationale: This is a required course for the new Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics.

Majors taking course: Financial Mathematics tracks for the MS in Mathematical Sciences and the PhD in Mathematics

Split Level Class

GLY 5XXX **COS-PHYS** **3(3,0)**

Marine Geology: PR: Graduate standing or C.I. Examination of the physical processes operating in the world ocean; marine tectonics, ocean history; marine sediments; ocean circulation; marine energy; sea-level change; marine research methods. *Odd Fall*.

Abbrev: (17 of 30 chars) Marine Geology

Discussion with others: There are no known comparable courses in the university curriculum. The course syllabus was provided to Dr. Graham Worthy, chair of the Biology Department. He said that the department would support the course and sees minimal overlap with the department's undergraduate Oceanography course (OCE 3008).

Rationale: There is increasing interest in enhancing UCF's geoscience offerings, and in particular those related to marine science. This course represents one of the fundamental topics in geoscience and should be of interest to many students in the physical and life sciences and engineering. EM attached.

Majors taking course: None

POS 5XXX **COS-POLS** **3(3,0)**

Civic Engagement: PR: Graduate standing or C.I. Civic engagement in local, state, national and international contexts focusing on academic and practical applications, public problem solving, and political rights and responsibilities fostering civic engagement. *Summer*.

Abbrev: (16 of 30 chars) Civic Engagement

Discussion with others: Public Administration

Rationale: The political science department presently offers an undergraduate certificate in civics teaching. One of the required courses for that certificate is POS 3272-Civic Engagement.. The target population for the undergraduate civics teaching certificate is students pursuing the B.S. in Social Science Education. The proposed course will be part of a graduate certificate in civics teaching (to be proposed) that will support social science education and political science graduate programs, as well as practicing social studies teachers pursuing the certificate only and post-baccalaureate students pursuing alternate social studies teacher certification who will be enrolled in the graduate civics teaching certificate.

Majors taking course: None

2. Special Topics Additions

College of Engineering and Computer Science Special Topics Additions

Tabled 3/22/2017. Needs discussion with College of Medicine.

Approved 4/7/2017 by committee via email. Documentation was provided showing no conflicts or concerns with College of Medicine.

BME 5937 ECS-MECH/AERO 3(3,0)

Transport Phenomena in Biomedical Engineering: PR: EML 3701 and EML 4142.

Principles of heat, mass and momentum transfer, and their relevance and application to biomedical systems. The scope will cover derivation of the transport equations and compilation of physiologic and imaging data into models predictive of cardiopulmonary organs, and application of computational fluid dynamics technique. A project will be assigned requiring students to develop and present a technical report on a current bioengineering problem.

Occasional.

Abbrev: (30 of 30 chars) Transport Phenomena Biomed Eng

College of Health and Public Affairs Special Topics Additions

PAD 6938 HPA-PUB 3(3,0)

Hazard Analysis and Disaster Planning: PR: Graduate standing or C.I. Geospatial aspects of hazards analysis and planning with specific reference to disaster preparedness, recovery, mitigation and resilience. *Occasional.*

Abbrev: (26 of 30 chars) Hazard Analysis & Dist Plan

Discussion with others: None

3. Course Revisions

College of Arts and Humanities Course Revisions

Tabled 3/22/2017. Need to clarify whether this is a new course or a revised course request, and provide documentation of discussions with English, Communication Sciences and Disorders, and Psychology.

Approved 4/7/2017 by committee via email. This is a revised course and documentation was provided for the discussions showing no conflicts or concerns with English, Communication Sciences and Disorders, and Psychology.

SPN 5705 **Introduction to Spanish Linguistics**
Spanish Psycholinguistics **3(3,0)**

PR: Graduate status or senior standing or C.I. An introduction to main concepts Explores introductory topics in Spanish psycholinguistics research, including bilingual language production, comprehension, acquisition, and methods of analyses focusing on Spanish morphology, syntax, semantics, and phonology as well as dialectology and sociolinguistics development.

Abbrev (25 of 30): ~~Intro to Spanish Linguistics~~ Spanish Psycholinguistics

Term Offered: ~~Even-Fall~~ Occasional

Discussion with others: There is not a course with the same name at UCF. There are no expected conflicts with other departments (i.e., Psychology, Communication Disorders, English) based on catalog descriptions.

Rationale: The MA Spanish program is creating this new course to give the students the opportunity to learn about a current trending line in the study of Spanish linguistics and/or facilitate their transition to competitive Ph.D. programs.

Majors taking course: MA Spanish Students

College of Health and Public Affairs Course Revisions

PAF 7858 **Advanced Seminar in Governance and**
Policy Research **3(3,0)**

PR: ~~PAF 7000, PAF 7300, PAF 7806~~ Admission to Public Affairs Ph.D. Program or C.I. Integrates theoretical and methodological applications to public policy analysis, particularly related to environmental, science and technological, health and welfare impacts.

4. Course Deletions

5. Course Continuations