

Graduate Council Curriculum Subcommittee
March 21, 2007
12:00, MH 243

Agenda

1. Approval of minutes from March 7, 2007
2. Revisions to the MS in Industrial Engineering
3. Revisions to the MA/MED in Exceptional Education
4. Revisions to the Finance track, Ph.D. in Business Administration
5. Courses and special topics

March 14, 2007

To: Dr. Patricia Bishop, Graduate Studies
From: Chuck Reilly, IEMS
Copy: Dr. Jamal Nayfeh, CECS
Subj: Graduate Catalog Changes for 2007-2008

The Department of Industrial Engineering and Management Systems proposes the following changes to the 2007-2008 edition of the Graduate Catalog:

1. Suppression of the Systems Engineering and Management Track.
2. Curricula for 30-hour MS/MSIE programs.

The rationale and background for each of the changes is summarized in attachments to this memorandum.

We thank the Graduate Council for reviewing these proposed changes to the Graduate Catalog.

Attachments (2):

- Attachment 1 – Suppression of the Systems Engineering and Management Track
- Attachment 2 – Curricula for 30-hour MS/MSIE Programs

Department of Industrial Engineering and Management Systems

Attachment 1

Suppression of Systems Engineering and Management Track

In 2004, IEMS proposed the offering of a new MS track that is tailored to the needs of engineering and management professionals affiliated with the Kennedy Space Center (KSC). This track has been available only to students enrolled in live sections at KSC and not to students on UCF's main campus or to distributed learning students. A new cohort of students was expected to begin the program at KSC each fall. For several reasons, including availability of faculty, there were not enough interested students in Fall 2006 to support a new cohort. A new cohort is not being recruited for Fall 2007.

IEMS believes there may still be a need for this track at KSC, as recent communications with prospective applicants affirm. Our department soon expects to conclude a chair search, and we will address our future offerings at KSC once the new chair arrives.

For 2007-2008, it is hereby proposed that the Systems Engineering and Management Track be temporarily suppressed, but not deactivated. Before the 2008-2009 Graduate Catalog is prepared, IEMS must decide to either:

- Offer this track to students at KSC beginning in Fall 2008 or Spring 2009,
- Offer this track on the UCF main campus and/or at KSC beginning in Fall 2008 or Spring 2009, or
- Permanently deactivate this track.

Department of Industrial Engineering and Management Systems

Attachment 2 Curricula for 30-Hour MS/MSIE Programs

The Curriculum Subcommittee of the Graduate Council recently approved, in principle, 30-hour non-thesis options for all master's programs in the engineering disciplines. The responsibility for proposing detailed curricular revisions was left to the programs. The purpose of this attachment is present the proposed curricula for non-thesis and thesis curricula for the MSIE and MS (in industrial engineering) programs.

All of the proposed MSIE/MS curricula for 2007-2008 include a 4-course IEMS core. The purpose of this core is to ensure that all students earning an MSIE or MS degree have common core knowledge in industrial engineering. Additionally, there are fewer restricted electives included in the proposed curricula for 2007-2008 so that enrollments in courses on the schedule can be better forecast and managed. The new curricula will provide all MSIE/MS students with a solid foundation in industrial engineering at the graduate level and the opportunity to select a specialty area.

Assuming that the Systems Engineering and Management Track is suppressed as recommended in Attachment 1, in 2007-2008, IEMS intends to continue to offer the MSIE for students with BSIE degrees (see 2006-2007 and proposed 2007-2008 curricula in Table 1) and for other degreed engineers (see Table 2) and seven MS tracks and one MS focus (see Tables 3 through 10).

In each table, the proposed curriculum for 2007-2008 is compared to the curriculum from 2006-2007. Credit hours specifically for the thesis option are left-justified in the tables, while credit hours specifically for the non-thesis option are right-justified. Option-neutral credit hours are centered in the tables. Requirements for 2006-2007 only are italicized.

Table 1
MSIE – Student has BSIE degree

	2006-2007 (Option 1)	2006-2007 (Option 2)	2007-2008
IEMS Core Courses			
EIN 5140 Project Engineering	3		3
EIN 6336 Production and Inventory Control OR EIN 6339 Operations Engineering			3
ESI 5219 Engineering Statistics	3		3
ESI 5531 Discrete Systems Simulation			3
MSIE Degree Requirements			
EIN 5117 Management Information Systems	3		3
EIN 6357 Advanced Engineering Economic Analysis OR EIN 6358 Decision Analysis	3		3
ESI 5236 Reliability Engineering	3		3
ESI 6247 Experimental Design and Taguchi Methods	3		3
Electives – Non-thesis Option	18		6
<i>Electives – Thesis Option</i>	6		
Thesis Hours – Thesis Option	6		6
<i>2006-2007 Requirements – Option 2</i>			
<i>Follow any MS track – Non-thesis option OR</i>		36	
<i>Follow any MS track – Thesis option</i>		30	
Total Required Hours – Thesis option	30	30	30
Total Required Hours – Non-thesis option	36	36	30

Table 2
MSIE – Student does not have a BSIE degree

	2006-2007	2007-2008
Additional Prerequisites:		
EIN 3314C Work Measurement and Design	X	X
EIN 4333C Industrial Control Systems	X	X
EIN 4364C Industrial Facilities Planning and Design		X
EIN 4391C Manufacturing Engineering	X	X
IEMS Core Courses		
EIN 5140 Project Engineering	3	3
EIN 6336 Production and Inventory Control <u>OR</u> EIN 6339 Operations Engineering	3	3
ESI 5219 Engineering Statistics	3	3
ESI 5531 Discrete Systems Simulation	3	3
MSIE Degree Requirements		
EIN 5117 Management Information Systems	3	3
EIN 5248C Ergonomics	3	3
EIN 6357 Advanced Engineering Economic Analysis	3	3
ESI 6225 Quality Design and Control	3	3
ESI 6247 Experimental Design and Taguchi Methods	3	3
ESI 6418 Linear Programming and Extensions		3
<i>2006-2007 Requirements</i>		
<i>ESI 5306 Operations Research</i>	3	
<i>Electives (6000-level)</i>	6	
Total Required Hours	36	30

Table 3
MS – Engineering Management Track

	2006-2007	2007-2008
IEMS Core Courses		
EIN 5140 Project Engineering	3	3
EIN 6336 Production and Inventory Control <u>OR</u> EIN 6339 Operations Engineering		3
ESI 5219 Engineering Statistics	3	3
ESI 5531 Discrete Systems Simulation		3
Track Requirements		
EIN 5117 Management Information Systems		3
EIN 6182 Engineering Management	3	3
EIN 6357 Advanced Engineering Economic Analysis		3
Elective	3	3
Additional Electives – Non-thesis Option	12	6
Thesis Hours – Thesis Option	6	6
<i>2006-2007 Requirements</i>		
<i>EIN 5108</i>	3	
<i>Choose three of the following courses:</i>		
<i>EIN 5117 Management Information Systems</i> <i>EIN 5251 Usability Engineering</i> <i>EIN 6357 Advanced Engineering Economic Analysis</i> <i>EIN 6339 Operations Engineering</i> <i>ESI 6224 Quality Management</i> <i>ESI 6358 Decision Analysis</i> <i>EIN 6528 Simulation-based Life Cycle Engineering</i>	9 9	
Total Required Hours – Thesis option	30	30
Total Required Hours – Non-thesis option	36	30

Table 4
MS – Human Engineering/Ergonomics Track

	2006-2007	2007-2008
Additional Prerequisites		
EIN 3314C Work Measurement and Design	X	X
EIN 4234C Human Engineering	X	X
IEMS Core Courses		
EIN 5140 Project Engineering		3
EIN 6336 Production and Inventory Control OR EIN 6339 Operations Engineering		3
ESI 5219 Engineering Statistics	3	3
ESI 5531 Discrete Systems Simulation		3
Track Requirements		
EIN 5248C Ergonomics	3	3
EIN 5251 Usability Engineering	3	3
EIN 6279C Biomechanics OR EIN 6270C Work Physiology	3	3
Elective	3	3
Additional Electives – Non-thesis Option	12	6
Thesis Hours – Thesis Option	6	6
<i>2006-2007 Requirements – Choose three courses:</i>		
<i>EIN 5140 Project Engineering</i> <i>EIN 6215 System Safety Engineering and Management</i> <i>EIN 6258 Human Computer Interaction</i> <i>ESI 6358 Decision Analysis</i> <i>ESI 6247 Experimental Design and Taguchi Methods</i> <i>Psychology Elective</i>	9 9	
Total Required Hours – Thesis option	30	30
Total Required Hours – Non-thesis option	36	30

Table 5
MS – Interactive Simulation and Training Systems Track

	2006-2007	2007-2008
IEMS Core Courses		
EIN 5140 Project Engineering		3
EIN 6336 Production and Inventory Control <u>OR</u> EIN 6339 Operations Engineering		3
ESI 5219 Engineering Statistics	3	3
ESI 5531 Discrete Systems Simulation		3
Track Requirements		
EIN 5255C Interactive Simulation	3	3
EIN 5317 Training Systems Design	3	3
EIN 6647 Intelligent Simulation		3
Elective	3	3
Additional Electives – Non-thesis Option	12	6
Thesis Hours – Thesis Option	6	6
<i>2006-2007 Requirements – Choose four courses:</i>		
<i>EIN 6645 Real-Time Simulation Agents</i> <i>EIN 6649C Intelligent Tutoring Training System Design</i> <i>ESI 5531 Discrete Systems Simulation</i> <i>ESI 6532 Object-Oriented Simulation</i> <i>EIN 6258 Human Computer Interaction</i> <i>EIN 5140 Project Engineering</i> <i>EIN 6647 Intelligent Simulation</i> <i>EIN 6528 Simulation-based Life Cycle Engineering</i>	12 12	
Total Required Hours – Thesis option	30	30
Total Required Hours – Non-thesis option	36	30

Table 6
MS – Manufacturing Engineering Track

	2006-2007	2007-2008
Additional Prerequisites		
EIN 4214 Safety Engineering and Administration		X
EIN 4391C Manufacturing Engineering		X
ESI 4234 Quality Engineering		X
IEMS Core Courses		
EIN 5140 Project Engineering		3
EIN 6336 Production and Inventory Control <u>OR</u> EIN 6339 Operations Engineering	3	3
ESI 5219 Engineering Statistics	3	3
ESI 5531 Discrete Systems Simulation		3
Track Requirements		
EGN 5858C Prototyping and Product Realization <u>OR</u> EIN 6459 Concurrent Engineering	3	3
EIN 5368C Integrated Factory Automation Systems	3	3
EIN 5392C Manufacturing Systems Engineering		3
Elective	3	3
Additional Electives – Non-thesis Option	12	6
Thesis Hours – Thesis Option	6	6
<i>2006-2007 Requirements – Choose three courses:</i>		
<i>EIN 6339 Operations Engineering</i> <i>EIN 5140 Project Engineering</i> <i>EIN 5607C Computer Control of Manufacturing Systems</i> <i>EIN 5248C Ergonomics</i> <i>ESI 5306 Operations Research</i> <i>ESI 5236 Reliability Engineering</i> <i>ESI 6225 Quality Design and Control</i>	9 9	
Total Required Hours – Thesis option	30	30
Total Required Hours – Non-thesis option	36	30

Table 7
MS – High Performance Internal Combustion Engine Optimization Focus

	2006-2007	2007-2008
Additional Prerequisites		
EIN 4214 Safety Engineering and Administration		X
EIN 4391C Manufacturing Engineering		X
IEMS Core Courses		
EIN 5140 Project Engineering		3
EIN 6336 Production and Inventory Control OR EIN 6339 Operations Engineering		3
ESI 5219 Engineering Statistics	3	3
ESI 5531 Discrete Systems Simulation		3
Focus Requirements		
EGN 5720C Internal Combustion Engine Analysis and Optimization	3	3
EGN 6721C Experimental Methods for High Performance Engines	3	3
EIN 5607C Computer Control of Manufacturing Systems	3	3
Elective	3	3
Additional Electives – Non-thesis Option	12	6
Thesis Hours – Thesis Option	6	6
<i>2006-2007 Requirements – Choose three courses:</i>		
<i>EIN 5368C Integrated Factory Automation Systems EIN 5140 Project Engineering ESI 6247 Experimental Design and Taguchi Methods ESI 5236 Reliability Engineering ESI 6225 Quality Design and Control EGN 5858C Prototyping and Product Realization OR EIN 6459 Concurrent Engineering</i>	9 9	
Total Required Hours – Thesis option	30	30
Total Required Hours – Non-thesis option	36	30

Table 8
MS – Operations Research Track

	2006-2007	2007-2008
Additional Prerequisite		
ESI 4312 Operations Research	X	X
IEMS Core Courses		
EIN 5140 Project Engineering		3
EIN 6336 Production and Inventory Control OR EIN 6339 Operations Engineering		3
ESI 5219 Engineering Statistics	3	3
ESI 5531 Discrete Systems Simulation		3
Track Requirements		
ESI 6336 Queueing Systems	3	3
ESI 6358 Decision Analysis	3	3
ESI 6418 Linear Programming and Extensions OR ESI 5419C Engineering Applications of Linear and Nonlinear Optimization	3	3
Elective	3	3
Additional Electives – Non-thesis Option	12	6
Thesis Hours – Thesis Option	6	6
<i>2006-2007 Requirements – Choose three courses:</i>		
<i>EIN 6336 Production and Inventory Control</i> <i>ESI 5236 Reliability Engineering</i> <i>ESI 5306 Operations Research</i> <i>ESI 5531 Discrete Systems Simulation</i> <i>ESI 6217 Statistical Aspects of Digital Simulation</i> <i>ESI 6532 Object-Oriented Simulation</i>	9 9	
Total Required Hours – Thesis option	30	30
Total Required Hours – Non-thesis option	36	30

Table 9
MS – Quality Engineering Track

	2006-2007	2007-2008
Additional Prerequisites		
EIN 4214 Safety Engineering and Administration		X
EIN 4234 Quality Engineering		X
IEMS Core Courses		
EIN 5140 Project Engineering		3
EIN 6336 Production and Inventory Control OR EIN 6339 Operations Engineering		3
ESI 5219 Engineering Statistics	3	3
ESI 5531 Discrete Systems Simulation		3
Track Requirements		
ESI 5236 Reliability Engineering	3	3
ESI 6224 Quality Management	3	3
ESI 6225 Quality Design and Control	3	3
Elective	3	3
Additional Electives – Non-thesis Option	12	6
Thesis Hours – Thesis Option	6	6
<i>2006-2007 Requirements – Choose three courses:</i>		
<i>EIN 5140 Project Engineering</i> <i>EIN 6339 Operations Engineering</i> <i>ESI 5227 Total Quality Improvement</i> <i>EIN 6336 Production and Inventory Control</i> <i>ESI 5306 Operations Research</i> <i>ESI 6247 Experimental Design and Taguchi Methods</i> <i>EIN 5368C Integrated Factory Automation Systems</i>	9 9	
Total Required Hours – Thesis option	30	30
Total Required Hours – Non-thesis option	36	30

Table 10
MS – Simulation Modeling and Analysis Track

	2006-2007	2007-2008
Additional Prerequisite		
ESI 4312 Operations Research	X	X
IEMS Core Courses		
EIN 5140 Project Engineering		3
EIN 6336 Production and Inventory Control OR EIN 6339 Operations Engineering		3
ESI 5219 Engineering Statistics	3	3
ESI 5531 Discrete Systems Simulation	3	3
Track Requirements		
ESI 6217 Statistical Aspects of Digital Simulation	3	3
ESI 6529 Advanced Systems Simulation		3
ESI 6532 Object-Oriented Simulation	3	3
Elective	3	3
Additional Electives – Non-thesis Option	12	6
Thesis Hours – Thesis Option	6	6
<i>2006-2007 Requirements – Choose three courses:</i>		
<i>EIN 5255C Interactive Simulation</i>	9	9
<i>EIN 5317 Training Systems Design</i>		
<i>EIN 6258 Human Computer Interaction</i>		
<i>EIN 6645 Real-Time Simulation Agents</i>		
<i>ESI 6336 Queueing Systems</i>		
<i>ESI 6247 Experimental Design and Taguchi Methods</i>		
Total Required Hours – Thesis option	30	30
Total Required Hours – Non-thesis option	36	30



Office of Student Services

RECEIVED MAR 02 2007

MEMORANDUM

February 27, 2007

TO: Dr. Patricia Bishop, Vice Provost and Dean, Graduate Studies

FROM: Dr. Grant Hayes, Associate Dean for Graduate Studies

SUBJECT: Request for revision to the MA in Exceptional Education

Attached please find a proposal for program revisions to the Master of Arts in Exceptional Education. This proposal includes programming changes mandated for teacher education programs in the Florida state statutes. The proposal was voted upon and unanimously approved at the College of Education Graduate Curriculum and Standards Committee meeting held February 27, 2007.

TO: Members of the COE Graduate Curriculum and Standards Committee

FROM: Faculty-Exceptional Education Program area
Child, Family, and Community Sciences Dept.-Dr. Anne Culp, Chair
Principal Author-Mary E. Little, Ph. D., Faculty

DATE: February 21, 2007

RE: Program Revisions-M.A. and M.Ed. in Exceptional Education

Due to the numerous mandated and legislated changes in state statutes in Florida regarding the initial teacher preparation (ITP) programs, the former Masters of Arts offered in Exceptional Education program area, specifically, needed revisions to comply with these mandated revisions. In addition, program faculty wanted to complete these revisions to address the additional opportunities and mandates related eligibility for both reading and ESOL endorsement for our graduate students.

Given that, several meetings with Dr. Hayes, Dr. Biraimah, and Dr. Tomei proved very informative regarding the specifics of the state statutes and new requirements. A subcommittee of faculty from our program area then made revisions to our Masters of Arts and the Masters of Education in Exceptional Education from the most current materials and resources supplied by Ms. Andrea Whittington. The draft program revisions were discussed and approved at a recent faculty meeting of the Exceptional Education program faculty, with Dr. Anne Culp, Chair of the FCS Department present (Friday, February 9, 2007).

Attached, please find the proposed Program of Studies for both of these above-referenced masters programs for your consideration. Specific changes for your attention include:

-AREA A: Core

The two mandated TESOL courses (TSL 5373 and TSL 6250) have replaced two electives in our Masters of Arts program, as these courses, along with our ESOL-infused courses in the specialization area, have been submitted to the Florida Department of Education for program approvals for ESOL endorsement for our graduates.

There are no changes to the M.ED. courses.

Recommended deletion of EDF 6432: Measurement and Evaluation, as students in these Masters programs take several measurement and assessment courses.

-AREA B: Specialization

There are no additional courses to the proposed program revisions. Course competencies, rubrics, and syllabi have been updated in all of these courses in our

continued program and course preparation for NCATE and continuous program improvement. The substance and goals of these courses have not been revised.

-AREA C: Co-Requisites

-The fifteen hours (15) of co-requisites are directly from the previously revised and approved Initial Teacher preparation (ITP) program offered through UCF, and shared with our program area by Dr. Biraimah. It is our understanding that the nine (9) hours of the new courses in Educational Foundations have already been through the necessary approvals at the college and university levels for implementation by Summer, 2007. In addition, these revisions (including the new reading course) will provide Competencies 1-4 of the Reading Endorsement, if approved by the Florida Department of Education. From discussions with Karri Williams, program chair for reading, the new reading course is in development. In addition, the program faculty in special education have presented a proposal to the faculty of the reading program area requesting their consideration of the infusion of reading competencies for Reading Endorsement Competency #5 in one of our current and related courses (EEX 6107: Spoken and Written Language). This decision is pending. If approved, discussions regarding an internship in reading for graduate students in the Masters of Arts (initial teacher preparation program) to complete the required six (6) Reading Endorsement competencies for our graduate students in the Masters of Arts (initial teacher preparation) to be considered eligible for reading endorsement. These decisions are pending, and although related to this current program revision, will not impact the courses nor add new courses in this proposed program in Exceptional Education. This proposal is proposing to add this new reading course to our co-requisites, as part of the eligibility requirements for reading endorsement, once approved.

Thank you for every positive consideration for this program revision in both the masters of Arts and Masters of Education in Exception Education. Given the mandated changes and the need to meet the goals of our graduate students, the program faculty in Exceptional Education heartily endorsed these proposed programs in our Masters programs. Your positive action and timely response with this request is appreciated.

DRAFT-FOR REVIEW AND COMMENT ONLY 1.29.07

Exceptional Education

[Description](#)

[Degrees Offered](#)

[Admission](#)

[Master of Arts in Exceptional Education](#)

[Varying Exceptionalities Track](#)

[Master of Education in Exceptional Education](#)

[Varying Exceptionalities Track](#)

[Contact Info](#)

Description

The College of Education offers Master's degree programs in exceptional education leading to a Master of Education (M.Ed.) degree or a Master of Arts (M.A.) degree.

The M.Ed. degree prepares exceptional education teachers to work in programs serving PreK-12 students with disabilities. It is designed for teachers already certified in exceptional student education (or other certification in special education) to enhance their knowledge, skills, and dispositions.

The M.A. program is for non-education majors or previously certified teachers in another content area. Graduates must be eligible for certification by the successful completion of the degree program in the area of exceptional student education (ESE) and achieving a passing score on the Florida certification exam. Graduates will also be eligible for reading and ESOL endorsement upon successful completion of the Masters degree program, if not currently endorsed.

Degrees Offered

- Master of Arts in Exceptional Education
- Master of Education in Exceptional Education

Admission

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the [Admissions and Registration](#) section of the Graduate Catalog. Applicants must [apply online](#). Please be sure to submit all requested material by the established deadline(s).

In addition to the general admission requirements, applicants must provide:

- Official scores on the Graduate Record Examination (GRE), which must have been taken within the last five years
- GPA of 3.0 and GRE of 840; if GPA is below 3.0, GRE of 1000 (in lieu of the GRE, a GMAT score of 500 or higher may be used for admission consideration)
- Applicants to the M.Ed. program must (1) have completed all course requirements for Florida state teacher certification in the program's subject area and/or grade range, or (2) present a Florida Professional Teaching Certificate upon admission to the program. Applicants who have graduated from an accredited university or college teacher certification program in another state or country, in the appropriate subject and/or grade range, may also be admitted to the M.Ed. program with approvals from appropriate College and Department committees and advisors.
- For applicants from countries where English is not the official language, or for an applicant whose bachelor's degree is not from an accredited U.S. institution, an official score of at least 220 (computer-based test; or equivalent score on the paper-based test) on the Test of English as a Foreign Language (TOEFL) is required.

Students may not switch from an M.A. program to an M.Ed. program, or vice versa, without going through the university's admission process. Courses used to gain initial state certification may not be transferred into an M.Ed. program.

Application Due Dates

All students applying for fellowships or assistantships must apply by the Fall Priority deadline date.

U.S. Applicants

PLEASE NOTE: Applications for Fall will be considered after the March 15th deadline on a space available basis.

<u>Program(s)</u>	<u>Fall Priority</u>	<u>Fall</u>	<u>Spring</u>	<u>Summer</u>
Master of Arts in Exceptional Education	Feb 1	Jul 15	Dec 1	Apr 15
Varying Exceptionalities Track	Feb 1	Jul 15	Dec 1	Apr 15
Master of Education in Exceptional Education	Feb 1	Jul 15	Dec 1	Apr 15
Varying Exceptionalities Track	Feb 1	Jul 15	Dec 1	Apr 15

International Applicants

<u>Program(s)</u>	<u>Fall Priority</u>	<u>Fall</u>	<u>Spring</u>	<u>Summer</u>
Master of Arts in Exceptional Education	Jan 15	Jan 15	Jul 1	
Varying Exceptionalities Track	Jan 15	Jan 15	Jul 1	
Master of Education in Exceptional Education	Jan 15	Jan 15	Jul 1	
Varying Exceptionalities Track	Jan 15	Jan 15	Jul 1	

International Transfer Applicants

<u>Program(s)</u>	<u>Fall Priority</u>	<u>Fall</u>	<u>Spring</u>	<u>Summer</u>
Master of Arts in Exceptional Education	Feb 1	Mar 1	Sep 1	
Varying Exceptionalities Track	Feb 1	Mar 1	Sep 1	
Master of Education in Exceptional Education	Feb 1	Mar 1	Sep 1	
Varying Exceptionalities Track	Feb 1	Mar 1	Sep 1	

Master of Education in Exceptional Education

Minimum Hours Required for M.Ed.—33-36 Credit Hours

The M.Ed. degree prepares exceptional education teachers to work in programs serving K-12 students with disabilities. It is designed for teachers already certified in exceptional education to enhance their knowledge, skills, and dispositions. Individual Learning Projects, including research skills and action research, will be infused within courses of the specialization and a culminating comprehensive exam synthesizing current research will be completed to demonstrate mastery of skills, knowledge, and dispositions of standards from accrediting educational agencies.

Area A: Core—9-12 Credit Hours

- EDF 6481 Fundamentals of Graduate Research in Education (3 credit hours)
- EEX 6971 Thesis (3-6 credit hours) OR
- EEX 6909 Research Report (3-6 credit hours)
- Electives* (As approved by Advisor) (3-6 credit hours)

Area B: Specialization—24 Credit Hours

- EEX 6061 Instructional Strategies PreK-6 (3 credit hours)
- EEX 6065 Programming for Students with Disabilities at the Secondary Level (3 credit hours)
- EEX 6107 Teaching Spoken and Written Language (3 credit hours)

- EEX 6266 Assessment and Curriculum Prescriptions for the Exceptional Population (3 credit hours)
- EEX 6342 Seminar—Critical Issues in Special Education (3 credit hours)
- EEX 6524 Organization and Collaboration in Special Ed (3 credit hours)
- EEX 6612 Methods of Behavioral Management (3 credit hours)
- EEX 6863 Supervised Teaching Practicum with Exceptional Children or Elective* (approved by adviser) (3 credit hours)

Culminating experience includes a comprehensive examination synthesizing current research will be completed to demonstrate mastery of skills, knowledge, and dispositions of standards from accrediting educational agencies.

Please see your adviser for guidance regarding the selection of electives (*). Approved electives should lead to completion of endorsements in reading or ESOL, if not currently endorsed, and may include courses such as:

- TSL 5373 Teaching Language Minority Students in K-12 Classrooms (3 credit hours),
- TSL 6250 Applied Linguistics in ESOL (3 credit hours)
- RED 5514 (New-Competencies 3 and 4) (3 credit hours)

Other courses may be approved by an adviser. Additional courses within the Exceptional Education program area are also acceptable as electives and include:

- ELD 6248 Instructional Strategies for Students with Learning Disabilities
- EED 6226 Theory and Applications for Students with EH
- EMR 6365 Teaching Students with Mental Retardation

Please see complete listings of additional courses in Certificate Programs in Exceptional Education (e.g., Autism, Early Childhood Special Education, Severe and Profound, etc.).

Master of Arts in Exceptional Education

Minimum Hours Required for M.A.— 54 Credit Hours

The M.A. program is for non-education majors or previously certified teachers in another content area. Graduates must be eligible for certification

by the successful completion of the degree program in the area of exceptional student education (ESE) and achieving a passing score on the Florida certification exam. Graduates will also be eligible for reading and ESOL endorsement upon successful completion of the Masters of Arts degree program, if not currently endorsed. Individual Learning Projects, including research skills and action research, will be infused within courses of the specialization and a culminating comprehensive exam synthesizing current research will be completed to demonstrate mastery of skills, knowledge, and dispositions of standards from accrediting educational agencies.

Area A: Core-9 Credit Hours

- EDF 6481 Fundamentals of Graduate Research in Education (3 credit hours)
- TSL 5373 Teaching Language Minority Students in K-12 Classrooms (3 credit hours),
- TSL 6250 Applied Linguistics in ESOL (3 credit hours)

Area B: Specialization—27 Credit Hours

- EEX 6061 Instructional Strategies PreK-6 (3 credit hours)
- EEX 6065 Programming for Students with Disabilities at the Secondary Level (3 credit hours)
- EEX 6107 Teaching Spoken and Written Language (3 credit hours)
- EEX 6266 Assessment and Curriculum Prescriptions for the Exceptional Population (3 credit hours)
- EEX 6342 Seminar—Critical Issues in Special Education (3 credit hours)
- EEX 6524 Organization & Collaboration in Special Ed (3 credit hours)
- EEX 6612 Methods of Behavioral Management (3 credit hours)
- EEX 6946 Graduate Internship - ESE and Reading (3 + 3 credit hours)

Co-requisites-15 Credit Hours

These courses are prescribed by Florida State Statutes for initial teacher preparation (ITP). Waiver/substitutions for co-requisites must meet

departmental standards and be approved by the chair of the department and/or advisor.

- EDF 6XXX Critical Analysis of Social, Ethical, Legal, and Safety Issues related to Education (3 credit hours)
- EDG 6XXX Principles in Instruction and classroom Management (3 credit hours)
- EDF 6XXX Principles of Learning and Introduction to Classroom Assessments (3 credit hours)
- RED 5147 Developmental Reading (3 credit hours)
- Instructional Methods Course-Approved by Advisor OR
- RED 5514 Reading Course (New-Competencies 3 and 4) (3 credit hours)

Prerequisite-3 Credit Hours

- EEX 5051 Exceptional Children in the Schools (3 credit hours)

As culminating activities, students must complete the College of Education portfolio and comprehensive examinations. Please see your adviser.

Additional Program Graduation Requirements

Pass all applicable sections of the Florida Teacher Certification Examination.

Financial Support

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see [Financing Grad School](#), which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The [Financial Information](#) section of the Graduate Catalog is another key resource.

Key points about financial support:

- If you're interested in financial assistance, you're strongly encouraged to apply for admission early. A complete application for admission, including all supporting documents, must be received by the priority date listed for your program under "Admissions."

- You must be admitted to a graduate program before the university can consider awarding financial assistance to you.
- If you want to be considered for loans and other need-based financial assistance, review the UCF Student Financial Assistance website at <http://finaid.ucf.edu> and complete the FAFSA (Free Application for Federal Student Aid) form, which is available online at <http://www.fafsa.ed.gov>. Apply early and allow up to six weeks for the FAFSA form to be processed.
- UCF Graduate Studies awards university graduate fellowships, with most decisions based on nominations from the colleges and programs. All admitted graduate students are automatically considered in this nomination process. To be eligible for a fellowship, students must be accepted as a graduate student in a degree program and be enrolled full-time. To receive need-based fellowship awards, the student must have demonstrated need as determined by [FAFSA](#). Merit fellowship awards are not affected by [FAFSA](#) determination of need.
- Please note that select fellowships do require students to fill out a fellowship application (either a university fellowship application, an external fellowship application, or a college or school fellowship application).
- For information on assistantships (including teaching, research, and general graduate assistantships) or tuition support, contact the graduate program director of your major.

Contact Information:

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March 15, 2007

Curriculum changes to the Finance Track in Ph.D. in Business Administration

The department is proposing course additions to the required courses and changes to the electives. The proposed changes and the graduate catalog copy for 2006-2007 are attached.

Finance Track

Changes For 2007-08

Total Hours Required for Ph.D.—Minimum of 51 credit hours of coursework and 24 hours of dissertation credit. Required courses for all students are indicated with an asterisk. Specific courses from the foundation body of knowledge category are determined based on a student's background in consultation with the doctoral program coordinator. Required coursework prior to beginning study includes successful completion of at least a two-course sequence (6 credit hours) of calculus, and previous coursework in economics, finance, and statistics.

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Foundation Body of Knowledge—30 Credit Hours

In finance, the foundation body of knowledge includes (a) the finance, accounting, statistics, and economics common body of knowledge in an M.B.A. degree or its equivalent, and (b) graduate courses in financial management, investments, financial institutions, and international finance.

Deleted: beyond the bachelor's degree; minimum of 54 credit hours beyond the master's degree¶

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Deleted: credit hours (6 credit hours total) in macro and microeconomic theory, and (c) graduate courses in

Finance Major Concentration—18-21 Credit Hours

- FIN 7XXX* Finance Research Forum (up to 6 credit hours)
- FIN 7XXX* Introduction to the Theory of Finance (3 credit hours)
- FIN 7807* Corporate Finance Theory (3 credit hours)
- FIN 7816* Investment Theory (3 credit hours)
- FIN 7XXX* Market Microstructure (3 credit hours)
- FIN 7XXX* Seminar in Financial Markets and Institutions (3 credit hours)

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Deleted: <#>FIN 7811 Seminar in Financial Markets and Institutions (3 credit hours) ¶

Deleted: 7930 Seminar in Finance (3 credit hours)

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Minor/Support Area—6 Credit Hours

- ECO 6118* Microeconomic Theory I (3 credit hours)
- ECO 7116* Microeconomic Theory II (3 credit hours)

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Research Tools—12 Credit Hours

- ECO 6403* Mathematical Economics (3 credit hours)
- ECO 6424* Econometrics I (3 credit hours)
- ECO 7426* Econometrics II (3 credit hours)
- ECO 6408 Games and Economic Behavior (3 credit hours)
- ECO 6453 Experimental Economics (3 credit hours)
- ECO 7086 Advanced Topics in Economic Theory (3 credit hours)
- ECO 7428 Time Series (3 credit hours)
- ACG 7157 Archival Research in Accounting (3 credit hours)

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<#>ECO 7425 Applied Models II (3 credit hours) ¶

Teaching Requirement—0-3 Credit Hours

The requirements for the teaching component of the doctoral degree will be developed with the doctoral graduate program director based on the student's experience.

Candidacy Examination and Dissertation—24 Credit Hours

As described in General Preparation and Course Work (above).

GRADUATE CATALOG FOR 2006-2007

Finance Track

Total Hours Required for Ph.D.—Minimum of 84 credit hours beyond the bachelor's degree; minimum of 54 credit hours beyond the master's degree

Foundation Body of Knowledge—30 Credit Hours

In finance, the foundation body of knowledge includes (a) the common body of knowledge in an M.B.A. degree or its equivalent, and (b) graduate credit hours (6 credit hours total) in macro and microeconomic theory, and (c) graduate courses in financial management, investments, financial institutions, and international finance.

Finance Major Concentration—12 Credit Hours

- FIN 7807 Corporate Finance Theory (3 credit hours)
- FIN 7811 Seminar in Financial Markets and Institutions (3 credit hours)
- FIN 7816 Investment Theory (3 credit hours)
- FIN 7930 Seminar in Finance (3 credit hours)

Minor/Support Area—6 Credit Hours

- ECO 7116 Microeconomic Theory (3 credit hours)
- ECO 7205 Macroeconomic Theory (3 credit hours)

Research Tools—12 Credit Hours

- ECO 6424 Econometrics (3 credit hours)
- ECO 7423 Applied Models I (3 credit hours)
- ECO 7425 Applied Models II (3 credit hours)
- ECO 7428 Time Series (3 credit hours)

Teaching Requirement—0-3 Credit Hours

The requirements for the teaching component of the doctoral degree will be developed with the doctoral graduate program director based on the student's experience.

Candidacy Examination and Dissertation—24 Credit Hours

As described in General Preparation and Course Work (above).