



The Graduate School

UNIVERSITY OF SOUTH CAROLINA

GRADUATE COUNCIL AGENDA November 23, 2015

To: Graduate Council

Dr. Julia Lopez-Robertson, Chair; Drs. Swann Adams, Jennifer Arns, Drucilla Barker, Bobby Brame, Jr., Heather Brandt, Matt Brown, Nancy Brown, Dirk den Ouden, Kay Edwards, Jessica Elfenbein, Jerry Hilbish, Lorne Hofseth, Christian Jensen, Lara Lomicka-Anderson, Caryn Outten, David Tedeschi, Scott White, Susan Yeargin; Brittany Walter, GSA Representative

CC: President Harris Pastides, Provost Joan Gabel, Dr. Kristia Finnigan, Deans, Department Chairs, Graduate Directors and Graduate Program Administrators

From: Dr. Lacy Ford, Senior Vice Provost and Dean of Graduate Studies

The Graduate Council will meet on Monday, November 23, 2015 at 2:00 P.M. in the Byrnes Building, Room 311 with the following items on the agenda:

1. **Call to Order and Approval of Agenda** (Julia Lopez-Robertson, Chair)
2. **Approval of the Minutes [October 26, 2015](http://app.gradschool.sc.edu/gradcouncil/minutes.asp)**. Approved actions by Graduate Council become effective 30 days after posting. A copy is available on The Graduate School website at: <http://app.gradschool.sc.edu/gradcouncil/minutes.asp>
3. **Report of the Chair** (Julia Lopez-Robertson)
4. **Report of the Dean of Graduate Studies** (Lacy Ford)
5. **Report of the Secretary of the Graduate Council / Associate Dean** (Murray Mitchell)
6. **Report of the Graduate Student Association Representative** (Brittany Walter)
7. **Report of the Academic Policy and Practices Committee** (Matt Brown)
8. **Report of the 500/600 Level Courses, Distance Education and Special Courses** (Murray Mitchell)

A listing of 500/600 Level Courses is presented to Council for informational purposes only.

500/600 Level Courses

BIOL 652 - Change to credit hours, description, prerequisite, removal of note
BMEN 546 - Change prerequisite
BMEN 572 - Change prerequisite
CHEM 511 - Change prerequisite
CHEM 533 - Change prerequisite
CHEM 541 - Change prerequisite
CHEM 541L - Change prerequisite
CHEM 542 - Change prerequisite
CHEM 542L - Change prerequisite
CHEM 545 - Change prerequisite
CHEM 621 - Change prerequisite
CHEM 621L - Change description, prerequisite
CHEM 622 - Change prerequisite
CHEM 623 - Change prerequisite
CHEM 633 - Change prerequisite
CHEM 639 - Change credit hours, description
CHEM 644 - Change prerequisite
CHEM 655 – New Course Proposal
CHEM 659 – New Course Proposal
CHIN 550 – New Course Proposal
EDEX 581 – New Course Proposal
EDRD 500 – Change to credit hours, title, description
HPEB 674 – New Course Proposal
MGSC 594 – Change title and description
STAT 506 - Change prerequisite
STAT 509 - Change description, add note
STAT 515 – Change description
STAT 516 – Add note, prerequisite
STAT 517 - Change prerequisite
STAT 518 - Change prerequisite
STAT 519 - Change prerequisite
STAT 525 - Change prerequisite
STAT 530 – Change title, description, prerequisite
STAT 535 - Change prerequisite
STAT 540 - Change prerequisite

Distance Education Delivery

HPEB 798 Public Health Practicum Seminar (3)

Synthesis and application of MPH competencies for professional development, culminating in a practicum fieldwork contract.

[Pre/Co-requisites: HPEB 700, 701, 702, 707, 710, 748.]

[Effective: Fall 2016]

9. Associate Graduate Faculty Nominations (Murray Mitchell)

Dr. Edward Carr, Geography

Dr. Kathrene Brendell, Nursing
Dr. Stephanie Burgess, Nursing.
Dr. Carolyn Harmon, Nursing
Dr. Sue Heiney, Nursing
Dr. Tena Hunt-McKinney, Nursing
Dr. Sheryl Mitchell, Nursing
Dr. Amber Proctor-Williams, Nursing

10. **Fellowships and Scholarships Committee** (Heather Brandt)

11. **Report of Science, Math, and Related Professional Programs Committee** (David Tedeschi)

Program Change

A change in the number of credit hours permitted to count toward dual credit in the BS/MS program was approved by the Biomedical Engineering faculty. This change led to an *increase from 9 credit hours to 12 credit hours* that could be used as dual credit. The faculty approved this change as it was deemed to facilitate completion of the dual degree in a reasonable timeframe with negligible change in the academic development of students.

BIOE ME in Biomedical Engineering (30)

Current: An M.E. student must take a minimum of 30 hours of graded graduate courses. For both the M.S. and M.E. degrees, the student must take four required courses. All remaining course work must be taken from an approved list of courses, which includes engineering and mathematics courses numbered 500 or above. Other courses must be approved by the student's advisor and the graduate studies committee. All candidates must complete comprehensive assessment that is distinct from program course requirements.

Proposed: The Master of Engineering (M.E.) degree in biomedical engineering (BMEN) requires 30 credit hours of graduate level work beyond the B.S. degree. Students must complete 12 hours in mandatory core BMEN courses (710, 713, 720, and 723), 6 hours in approved BMEN core electives and 12 hours of additional approved electives. In addition to the courses, students must pass the comprehensive assessment.

[Effective: Fall 2016]

Program Change

A change in the number of credit hours permitted to count toward dual credit in the BS/MS program was approved by the Biomedical Engineering faculty. This change led to an *increase from 9 credit hours to 12 credit hours* that could be used as dual credit. The faculty approved this change as it was deemed to facilitate completion of the dual degree in a reasonable timeframe with negligible change in the academic development of students.

BIOE MS in Biomedical Engineering (30)

Current: An M.S. student must take a minimum of 24 hours of graded graduate courses and 6 hours of thesis credits leading to a thesis. An M.E. student must take a minimum of 30 hours of graded graduate courses. Student must take four required courses. All remaining course work must be taken from an approved list of courses, which includes engineering and mathematics courses numbered 500 or above. Other courses must be approved by the student's advisor and the graduate studies committee. All candidates must complete a comprehensive assessment that is distinct from program course requirements.

Proposed: The Master of Science (M.S.) degree in biomedical engineering (BMEN)

requires 30 credit hours of graduate level work beyond the B.S. degree. Students must complete of 12 hours in core BMEN courses core BMEN courses (710, 713, 720, and 723), 9 hours in BMEN or other approved electives, 1 hour in BMEN 795 seminar, 1 hour in BMEN 798 seminar, and 7 hours of BMEN 799, thesis preparation. The student must write and defend a thesis. The completed thesis must be submitted electronically with appropriate signatures to the Dean of the Graduate School.

[Effective: Fall 2016]

Course Change Proposal

Title and course description change

Current: BMSC 752 Medical Ethics (1) Instruction in medical ethics.

Proposed: BMSC 752 Medical Law and Ethics (1) Ethical issues and legal implications in patient-centered health care delivery systems.

[Effective: Fall 2016]

Course Change Proposal

From Variable to Fixed credit hours and course description change.

Current: CHEM 719 Special Topics in Inorganic Chemistry (1-4). Note: May be repeated as content varies by suffix and title.

Proposed: CHEM 719 Special Topics in Inorganic Chemistry (3) Note: May be repeated as content varies by title.

[Effective: Fall 2016]

Course Change Proposal

From Variable to Fixed credit hours and course description change.

Current: CHEM 729 Special Topics in Analytical Chemistry (1-4). Note: May be repeated as content varies by suffix and title.

Proposed: CHEM 729 Special Topics in Analytical Chemistry (3) Note: May be repeated as content varies by title.

[Effective: Fall 2016]

Course Change Proposal

From Variable to Fixed credit hours and course description change.

Current: CHEM 739 Special Topics in Organic Chemistry (1-4). Note: May be repeated as content varies by suffix and title.

Proposed: CHEM 739 Special Topics in Organic Chemistry (3) Note: May be repeated as content varies by title.

[Effective: Fall 2016]

Course Change Proposal

To delete the prerequisite. Graduate standing is enough; no prerequisite is needed.

CHEM 745 Introductory Crystallography (3)

Current: Prerequisites: B.S. in chemistry, physics, geology, or mathematics.

Proposed: Prerequisites: None.

[Effective: Fall 2016]

Course Change Proposal

From Variable to Fixed credit hours and course description change.

Current: CHEM 749 Special Topics in Physical Chemistry (1-4). Note: May be repeated as content varies by suffix and title.

Proposed: CHEM 749 Special Topics in Physical Chemistry (3) Note: May be repeated as content varies by title.

[Effective: Fall 2016]

Course Change Proposal

To delete the prerequisite. Graduate standing is enough; no prerequisite is needed.

CHEM 751 Biosynthesis of Macromolecules (3)

Current: Prerequisites: CHEM 550 or equivalent.

Proposed: Prerequisites: None.

[Effective: Fall 2016]

Course Change Proposal

To delete the prerequisite. Graduate standing is enough; no prerequisite is needed.

CHEM 752 Regulation and Integration of Metabolism (3)

Current: Prerequisites: CHEM 550 or equivalent.

Proposed: Prerequisites: None.

[Effective: Fall 2016]

Course Change Proposal

To delete the prerequisite. Graduate standing is enough; no prerequisite is needed.

CHEM 753 Enzymology and Protein Chemistry (3)

Current: Prerequisites: CHEM 550 or equivalent.

Proposed: Prerequisites: None.

[Effective: Fall 2016]

Course Change Proposal

From Variable to Fixed credit hours and course description change.

Current: CHEM 759 Special Topics in Molecular Biology (1-3). Note: May be repeated as content varies by suffix and title.

Proposed: CHEM 759 Special Topics in Molecular Biology (3) Note: May be repeated as content varies by title.

[Effective: Fall 2016]

New Program

CSCE PhD in Computer Engineering (60)

Degree Requirements (60 Post Baccalaureate Hours):

Requirements for the Ph.D. degree in Computer Engineering fall into four categories: course requirements, the qualifying examination, the comprehensive examination, and the dissertation.

1. Core (10 hours)

The coursework must include the following core courses.

- CSCE 513 - Computer Architecture
- CSCE 611 - Advanced Logic Design

- CSCE 750 - Analysis of Algorithms
 - CSCE 791 - Seminar in Advances in Computing
2. Computer Engineering Elective (3 hours)
Students must also complete one course from the following list.
- CSCE 512 - System Performance Evaluation
 - CSCE 516 - Computer Networks
 - CSCE 569 - Parallel Computing
 - CSCE 574 - Robotics
 - CSCE 613 - Fundamentals of VLSI Chip Design

3. Dissertation Preparation (12 hours)
- CSCE 899 - Dissertation Preparation

4. Advanced CSCE Electives (20 hours)

In addition to the above requirements, students must complete 20 hours in CSCE courses numbered 700 or above.

5. Other Electives (15 hours)

In addition to the above requirements, students must complete 15 hours of CSCE courses numbered above 500.

Graduate level courses from other departments, with approval from Graduate Director, can satisfy this requirement.

Students who enter the program with a Master's degree in Computer Engineering are exempt from this requirement.

Note: Students entering the program without a Masters degree are encouraged to concurrently enroll in and earn an MS in Computer Engineering.

At most 9 hours of CSCE 798 and not more than 12 hours of CSCE 899 may be applied toward the degree. Neither CSCE 797 nor CSCE 799 may be applied toward the degree.

The student's dissertation committee must approve the program of study, so this committee should be formed as early in a student's course of study as possible. Prior to admission to candidacy, the student is required to pass a written qualifying examination. This examination is designed to test fundamental knowledge and conceptual understanding of the mainstream areas of computer engineering. The Ph.D. comprehensive examination combines a written and an oral examination and seeks to discover whether the student has a sufficiently deep understanding of topics in the area of interest to carry out the proposed research. The dissertation committee, which also will make the final decision on whether the student has passed, constructs the research component. The oral examination is an in-depth test on the subject matter related to the student's dissertation topic and written exam. The committee may also examine the student on any other material it deems relevant. After completing the research and writing the dissertation, the student must defend the work in a public presentation.

[Effective: Fall 2016]

Program change

ME in Computer Science and Engineering (30)

Current: ME in Computer Science and Engineering

The professional Master of Engineering degree in computer science and engineering requires 30 hours of course work beyond the B.S. This course work must include the following core courses:

- CSCE 513 - Computer Architecture
- CSCE 531 - Compiler Construction
- CSCE 750 - Analysis of Algorithms
- CSCE 791 - Seminar in Advances in Computing and an additional 11 hours in CSCE courses numbered 700 and above.

A maximum of six hours in non-CSCE courses and at most three hours of CSCE 798 may be applied toward the degree. CSCE 797 may not be applied toward the degree.

All students must satisfactorily complete a comprehensive exam on the core courses which is administered on Reading Day at the end of the Spring and Fall semesters.

Proposed: MS in Computer Engineering

Degree Requirements (30 Hours)

The Master of Science in Computer Engineering (MSCE) degree requires 30 credit hours beyond the BS. Students in the MSCE program may elect either the thesis or the non-thesis option. The course work must include:

Core (10 hours):

- CSCE 513 - Computer Architecture
- CSCE 611 - Advanced Digital Design
- CSCE 750 - Analysis of Algorithms
- CSCE 791 - Seminar in Advances in Computing

Electives (20 hours):

A maximum of six hours in non-CSCE courses approved by the Graduate Director and at most three hours of CSCE 798 may be applied toward the degree. CSCE 797 may not be applied toward the degree.

Students who choose the non-thesis option must complete 6 hours from the following list.

- CSCE 512 - System Performance Evaluation
- CSCE 516 - Computer Networks
- CSCE 569 - Parallel Computing
- CSCE 574 - Robotics
- CSCE 613 - Fundamentals of VLSI Chip Design

Thesis Option:

Students who choose the thesis option must substitute 6 hours of thesis preparation (CSCE 799) for electives and defend the thesis in a public presentation. The electives must also include at least 8 hours in CSCE courses numbered 700 and above.

Non-Thesis Option:

Students who choose the non-thesis option must complete at least 11 of the 20 hours of electives in CSCE courses numbered 700 and above, and pass a written comprehensive examination administered at the end of Fall or Spring semester.

[Effective: Fall 2016]

New Course Proposal

ECIV 789 Design Project in Railway Engineering (4)

Application of engineering design principles in railway projects; project management; project scheduling; cost estimation; ethics; environmental and social impact; design drawings; report documents.

[Prerequisite: ECIV 580 or ECIV 582]

[Effective: Fall 2016]

Program Change

Program hours change.

HSPM Health Services Policy and Management/MPH (45)

Current: Major Requirements: Public Health Core (biostatistics, epidemiology, environmental health sciences, administration, and health promotion, education and behavior), 15 Hours

Management, 18 Hours

Planning, Organizational Behavior or Policy, 3 Hours

Community Assessment/Delivery of Health Care Services, 3 Hours

Public Health Residency, 6 Hours

Proposed: Major Requirements: Public Health Core (biostatistics, epidemiology, environmental health sciences, health administration, and health promotion, education and behavior), 15 Hours

Management, 12 Hours

Planning, Public Health Law or Policy, 9 Hours

Community Assessment/Delivery of Health Care Services, 3 Hours

Public Health Residency, 6 Hours

[Effective: Fall 2016]

12. Report of the Humanities, Social Sciences, Education, and Related Professional Programs Committee (Drucilla Barker)

Program Change

To satisfy the State of South Carolina Read to Succeed requirements for all professional education programs.

ART MAT in Art Education (P-12 Certification) (46)

The program changes will satisfy the State of South Carolina Read to Succeed requirements for all professional education programs.

(Letter of Concurrence received.)

Current: Professional Education (9 hours)

•EDPY 705 or EDPY 707

•EDCS 725 - Principles of Curriculum Construction

•~~EDFN 749 – The School in Modern Society~~

Content Area (22 hours):

•ARTE 525 - Elementary Methods for K-12 Art Certification

•ARTE 540 - The School Art Program

•ARTE 541 - Practicum in Art Education

•ARTE 701 - Seminar in Art Education

•ARTE 702 - Problems in the Teaching of Art

•ARTE 703 - Issues and Trends in Art Education

- ARTE 705 - Program Development in Art
- ARTE 750 - Interactive Technology for Art Teachers

Directed Teaching (15 hours):

- ARTE 471 - Directed Teaching in Art
- ARTE 565 - Field Experience Seminar

Additional Hours:

The following are required for certification if they were not taken at the undergraduate level.

Art Studio (12 hours):

- Drawing
- Painting
- Ceramics
- Printmaking

Art History (3 hours):

- Renaissance to Modern

Proposed:

Professional Education (9 hours)

- EDPY 705 - Human Growth and Development or EDPY 707 - Growth and Development: Middle School and Adolescence

- EDCS 725 - Principles of Curriculum Construction

- EDRD 500 - Content Area Literacy PK-12 or EDEX 581 – Teaching Reading in the Content Areas to Adolescents with Reading Disabilities or EDRD 732 – Teaching Reading and Writing in the Content Areas

Content Area (22 hours):

- ARTE 525 - Elementary Methods for K-12 Art Certification
- ARTE 540 - The School Art Program
- ARTE 541 - Practicum in Art Education
- ARTE 701 - Seminar in Art Education
- ARTE 702 - Problems in the Teaching of Art
- ARTE 703 - Issues and Trends in Art Education
- ARTE 705 - Program Development in Art
- ARTE 750 - Interactive Technology for Art Teachers

Directed Teaching (15 hours):

- ARTE 471 - Directed Teaching in Art
- ARTE 565 - Field Experience Seminar

Additional Hours:

The following are required for certification if they were not taken at the undergraduate level.

Art Studio (15 hours):

- Fundamental Design
- Drawing
- Painting
- Ceramics
- Printmaking

Art History (6 hours):

- Pre-history to Renaissance
- Renaissance to Modern

[Effective: Fall 2016]

Program Change

Add course description-currently missing in bulletin.

ECON 840 Economic Growth (3)

Current: None.

Proposed: Advanced theory of economic growth. Mathematical models of growth, including the neoclassical model, endogenous growth models, and models of imperfect competition and growth, will be examined. Techniques of dynamic optimization are used to solve models. Empirical methods will be applied to models of economic growth.

[Effective: Fall 2016]

New Course Proposal

ECON 892 Third Year Seminar 1 (2)

Research methods in Economics. The design and execution of a research paper in Economics. Preparation for writing a dissertation in Economics.

[Effective: Fall 2016]

New Course Proposal

ECON 893 Third Year Seminar 2 (1)

Research methods in Economics. The design and execution of a research paper in Economics. Preparation for writing a dissertation in Economics.

[Effective: Fall 2016]

Program Change

INTE MAT in Secondary Social Studies (48)

Current: Major requirements: The MAT in Social Studies is offered jointly by the College of Education and the College of Arts and Sciences. This minimum 48 credit hour degree program is designed specifically for students who wish to obtain initial teacher certification in social studies at the secondary level.

Degree Requirements (48 Hours)

Specific course requirements include a minimum of:

Content Area Courses (15-21 Hours)

Additional undergraduate or graduate course work in the social sciences may be required to meet criteria for certification (e.g., history, economics, geography, political science, psychology, sociology, anthropology).

Professional Education Courses

Select one of the following courses:

•EDFI 749 - The School in Modern Society

•EDFI 744 - Philosophy and Education

Select one of the following courses:

•EDPY 705 - Human Growth and Development

•EDPY 707 - Growth and Development: Adolescence

Select one of the following courses:

•EDRD 518 - Reading in the Secondary School

•EDRD 600 - Foundations of Reading Instruction

•EDRD 730 - Teaching Reading and Writing in the Content Areas

Methods Courses (6 Hours)

At least 6 hours of graduate methods courses, one of which must be a technology course.

Internship and Seminar (15 Hours)

Note: Each candidate must successfully complete a comprehensive examination as

determined by the appropriate M.A.T. degree committee.

Proposed: The MAT in Social Studies is offered jointly by the College of Education and the College of Arts and Sciences. This minimum 48 credit hour degree program is designed specifically for students who wish to obtain initial teacher certification in social studies at the secondary level.

Degree Requirements (48 Hours)

Specific course requirements include a minimum of:
Content Area Courses (15-21 Hours)

Additional undergraduate or graduate course work in the social sciences may be required to meet criteria for certification (e.g., history, economics, geography, political science, psychology, sociology, anthropology).

Professional Education Courses

Select one of the following courses:

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- EDPY 705 - Human Growth and Development
 - EDPY 707 - Growth and Development: Adolescence

Reading and Literacy courses (6 hours):

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- EDRD 731 - Assessment and the Foundations of Reading/Writing
 - EDRD 732 - Teaching Reading and Writing in the Content Areas

Methods Courses (6 Hours)

At least 6 hours of graduate methods courses, one of which must be a technology course.
Internship and Seminar (15 Hours)

Note: Each candidate must successfully complete a comprehensive examination as determined by the appropriate M.A.T. degree committee.
[Effective: Fall 2016]

Program change

MAT in Secondary Mathematics (48)

Current: Major requirements: The department offers two degree programs for students who wish to emphasize secondary and junior college mathematics education—the M.A.T. and the M.M. degrees. Courses at the 700-level specifically designed for these programs are designated by the letter I adjoined to the course number. These courses are generally offered in the late afternoon during the academic year and during the summer to provide area teachers the opportunity to work toward a degree on a part-time basis.

The M.A.T. in mathematics is offered by the Department of Mathematics jointly with the College of Education. This degree program is designed specifically for students who wish to obtain teaching certification in mathematics at the secondary level.

Degree Requirements (48 Hours)

The M.A.T. degree requires 30 approved semester hours of graduate-level course work in mathematics and education (exclusive of directed teaching), no less than 6 and no more than 15 of which may be in education, and at least 15 of which must be in mathematics or statistics. The individual student's program is planned according to that student's

background and goals. At least half of the student's course work must be numbered 700 or higher.

Each student's program of study must include at least one course in geometry (chosen from MATH 531 or MATH 736I), algebraic structures (MATH 701I), real analysis (MATH 703I), statistics (STAT 509 or STAT 515 -STAT 516), and number theory (MATH 780I). If equivalent courses have already been taken, then appropriate substitutions will be made. Unless previously taken, the student must also take upper division courses in linear algebra (MATH 526 or MATH 544) and discrete mathematics (MATH 574). Normally these two courses are taken prior to full admission to the program.

Course work in education must include human growth and development (EDPY 705), foundations of education (EDFI 749), a curriculum course (EDSE 770), a reading course (EDRD 518 or EDRD 730), and methods of teaching (EDSE 764).

The student must also complete an 18- semester-hour program of methods and internship in mathematics (EDSE 550, EDSE 584, EDSE 778A and EDSE 778B). Students must apply for admission to the professional program and internship through the College of Education's Office of Student Affairs early in the fall or spring semester prior to the semester of Internship B.

Upon admission to the M.A.T. program, the student is assigned a faculty advisor in mathematics to assist in the development of the mathematics portion of the program.

Approval of the candidate's program will be granted by a committee of three faculty members, consisting of the faculty advisor in mathematics, the faculty advisor in education, and a faculty member from either mathematics or education.

Each student must maintain a B average on all graduate-level course work in mathematics and a B average on all graduate-level course work in education.

Candidates for the M.A.T. degree are required to pass a written Comprehensive Examination covering their program of study and emphasizing the theoretical underpinnings of calculus, the basic forms of mathematical reasoning, argumentation, and proof, a repertoire of fundamental examples and counter-examples, problem solving, and insight into how these can inform the teaching of secondary mathematics. Geometric and statistical reasoning will frequently be called upon; students will generally be free to draw on their knowledge of any of analysis, algebra, discrete mathematics, or number theory as they see fit to demonstrate forms of mathematical argumentation and proof.

Proposed: Major requirements: The department offers two degree programs for students who wish to emphasize secondary and junior college mathematics education—the M.A.T. and the M.M. degrees. Courses at the 700-level specifically designed for these programs are designated by the letter I adjoined to the course number. These courses are generally offered in the late afternoon during the academic year and during the summer to provide area teachers the opportunity to work toward a degree on a part-time basis.

The M.A.T. in mathematics is offered by the Department of Mathematics jointly with the College of Education. This degree program is designed specifically for students who wish to obtain teaching certification in mathematics at the secondary level.

Degree Requirements (48 Hours)

The M.A.T. degree requires 30 approved semester hours of graduate-level course work in mathematics and education (exclusive of directed teaching), no less than 6 and no more than 15 of which may be in education, and at least 15 of which must be in mathematics or statistics. The individual student's program is planned according to that student's background and goals. At least half of the student's course work must be numbered 700 or higher.

Each student's program of study must include at least one course in geometry (chosen

from MATH 531 or MATH 736I), algebraic structures (MATH 701I), real analysis (MATH 703I), statistics (STAT 509 or STAT 515 -STAT 516), and number theory (MATH 780I). If equivalent courses have already been taken, then appropriate substitutions will be made. Unless previously taken, the student must also take upper division courses in linear algebra (MATH 526 or MATH 544) and discrete mathematics (MATH 574). Normally these two courses are taken prior to full admission to the program.

Course work in education must include human growth and development (EDPY 705 or EDPY 707), a curriculum course (EDSE 770), two Read to Succeed courses (EDRD 731 and EDRD 732), and methods of teaching (EDSE 764).

The student must also complete an 18- semester-hour program of methods and internship in mathematics (EDSE 550, EDSE 584, EDSE 778A and EDSE 778B). Students must apply for admission to the professional program and internship through the College of Education's Office of Student Affairs early in the fall or spring semester prior to the semester of Internship B.

Upon admission to the M.A.T. program, the student is assigned a faculty advisor in mathematics to assist in the development of the mathematics portion of the program. Approval of the candidate's program will be granted by a committee of three faculty members, consisting of the faculty advisor in mathematics, the faculty advisor in education, and a faculty member from either mathematics or education.

Each student must maintain a B average on all graduate-level course work in mathematics and a B average on all graduate-level course work in education.

Candidates for the M.A.T. degree are required to pass a written Comprehensive Examination covering their program of study and emphasizing the theoretical underpinnings of calculus, the basic forms of mathematical reasoning, argumentation, and proof, a repertoire of fundamental examples and counter-examples, problem solving, and insight into how these can inform the teaching of secondary mathematics. Geometric and statistical reasoning will frequently be called upon; students will generally be free to draw on their knowledge of any of analysis, algebra, discrete mathematics, or number theory as they see fit to demonstrate forms of mathematical argumentation and proof.

[Effective: Fall 2016]

Program change

MAT in Secondary Science (45)

With the new Read to Succeed Law, the state of South Carolina has changed the requirements for teacher certification. The state now requires students gaining secondary certification to have two reading courses instead of the previous one required course. In order to not increase the number of credit hours for the degree, our program is dropping the requirement of an Education Foundation course (EDFI 749 or EDFI 744). (Letter of concurrence received.)

Current: Major requirements: The MAT in Science is offered jointly by the College of Education and the College of Arts and Sciences. This degree includes options in biology, chemistry, earth science, natural sciences, and physics. The MAT in Science is designed specifically for candidates who wish to become certified in a secondary education area of science (i.e., biology, chemistry, physics, or science).

Degree Requirements (45 Hours)

Specific course requirements vary by area, but all must include a minimum of:

Content Area Courses (15-21 Hours)

Professional Education Courses (9 Hours)

Select one of the following courses:

- ~~EDFI 749 - The School in Modern Society~~
- ~~EDFI 744 - Philosophy and Education~~

Select one of the following courses:

- EDPY 705 - Human Growth and Development
- EDPY 707 - Growth and Development: Adolescence

Select one of the following courses:

- ~~EDRD 518 - Reading in the Secondary School~~
- ~~EDRD 600 - Foundations of Reading Instruction~~
- ~~EDRD 730 - Teaching Reading and Writing in the Content Areas~~

Methods Courses (6 Hours)

- At least 6 hours of graduate methods courses, one of which must be a technology course.
- Internship and Seminar (15 Hours)

Note:

Each candidate must successfully complete a comprehensive examination as determined by the appropriate M.A.T. degree committee.

Proposed: Major requirements: The MAT in Science is offered jointly by the College of Education and the College of Arts and Sciences. This degree includes options in biology, chemistry, earth science, natural sciences, and physics. The MAT in Science is designed specifically for candidates who wish to become certified in a secondary education area of science (i.e., biology, chemistry, physics, or science).

Degree Requirements (45 Hours)

Specific course requirements vary by area, but all must include a minimum of:
Content Area Courses (15-21 Hours)

Professional Education Courses (9 Hours)

Select one of the following courses:

- EDPY 705 - Human Growth and Development
- EDPY 707 - Growth and Development: Adolescence

Reading and Literacy Courses (6 Hours):

- **EDRD 731- Assessment and the Foundations of Reading/Writing**
- **EDRD 732 - Teaching Reading and Writing in the Content Areas**

Methods Courses (6 Hours)

- At least 6 hours of graduate methods courses, one of which must be a technology course.
- Internship and Seminar (15 Hours)
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Note:

Each candidate must successfully complete a comprehensive examination as determined by the appropriate M.A.T. degree committee.

[Effective: Fall 2016]

Program Change

(EDFI 749 or EDFI 744) across all secondary programs.

INTE MAT in Secondary English (48)

Current: Major requirements: In addition to fulfilling requirements for admission common to all degree programs, an applicant to the M.A.T. program must have at least 18 semester hours of the following 400-level literature courses or their equivalent, including Black literature (ENGL 428—may be taken after conditional admission); contemporary literature (ENGL 413 or 423); Shakespeare’s tragedies (ENGL 405); a non-Western literature; and 6 credits in survey-type, upper-division English and/or American literature survey courses. Applicants without a standard English major may fulfill this 18-semester-hour requirement only by taking upper-division courses that the Department of English M.A.T. advisor approves. Applicants with academic deficiencies may be required to take additional 400-level English courses.

Degree Requirements (48 Hours)

Requirements include a minimum of 15 graduate credits in English.

Proposed: Major requirements: MAT in Secondary English

In addition to fulfilling requirements for admission common to all degree programs, an applicant to the M.A.T. program must have at least 18 semester hours of the following **upper-level literature courses or their equivalent: Black literature (ENGL 428A, ENGL 428B, ENGL 430, ENGL 438D, ENGL 438E, or ENGL 565 - may be taken after conditional admission); contemporary literature; pre-1800 literature;** a non-Western literature; and 6 credits in survey-type, upper-division English and/or American literature survey courses. Applicants without a standard English major may fulfill this 18-semester-hour requirement only by taking upper-division courses that the Department of English M.A.T. advisor approves. Applicants with academic deficiencies may be required to take additional 400-level English courses.

Degree Requirements (48 Hours)

Requirements include a minimum of 15 graduate credits in English.

Note: In order to meet SC Read to Succeed requirements, students completing the MAT degree in the content area of English must include on their program of study the following: EDRD 600: Foundations of Reading Instruction, EDRD 651: Introduction to Teaching Media Literacy, EDSE 786: The Teaching of Literature in the Secondary School, EDSE 787: The Teaching of Writing in Secondary Schools, EDSE 728: Advanced Study of the Teaching of English in the Secondary Schools, and EDSE 584: Middle and High School Internship Seminar.

[Effective: Fall 2016]

Program Change

MUSC Master of Music Education (3)

Current: Admission

The requirements for admission are: completion of an undergraduate degree in music education, including a valid teacher certificate; ~~satisfactory score on the general section (verbal/quantitative/analytical) of the GRE or the Miller Analogies Test;~~ an interview; and

fulfillment of the general requirements for admission to The Graduate School, including the submission of three recommendations. Unless they have completed an undergraduate degree at an English-speaking institution, applicants whose native language is not English must submit a TOEFL score of at least 80 (internet-based score) or 570 (paper-based). Additional admission requirements for specific areas are listed in *Graduate Studies in Music* handbook. Admission decisions are based upon the applicant's total portfolio with particular weight being given to knowledge of and experience in elementary or secondary music teaching, the audition (for those desiring to present a recital), or research/writing abilities (for those desiring to write a thesis).

Proposed: Admission

The requirements for admission are: completion of an undergraduate degree in music education, including a valid teacher certificate; an interview; and fulfillment of the general requirements for admission to The Graduate School, including the submission of three recommendations. Unless they have completed an undergraduate degree at an English-speaking institution, applicants whose native language is not English must submit a TOEFL score of at least 80 (internet-based score) or 570 (paper-based). Additional admission requirements for specific areas are listed in Graduate Studies in Music handbook.

Admission decisions are based upon the applicant's total portfolio with particular weight being given to knowledge of and experience in elementary or secondary music teaching, the audition (for those desiring to present a recital), or research/writing abilities (for those desiring to write a thesis).

Major Area (15-18 hours)

- MUED 790 - Principles of Music Education
- MUED 795 - Research in Music Education and Pedagogy
- Additional MUED courses (6 hours)

Choose one of the following tracks:

Thesis Track (3 hours)

- MUSC 799 - Thesis Preparation

Recital Track (5 hours)

- MUSC 711 - Graduate Applied Music
- MUSC 796 - Solo Recital

35-Credit Track (6 hours)

- Additional MUED courses (6 hours)

Other Program Requirements:

Other Studies in Music (15-17 hours)

- Advisor-approved Music Theory (3 hours)
- Advisor-approved Music History (3 hours)
- MUSC 734 - Ensemble
- Other 500 or 700-level courses in music

[Effective: Fall 2016]

Program Change

MUSC Music Education, MAT (P-12 Certification) (32)

Current: Admission:

The requirements for admission are: completion of an undergraduate degree in music education, including a valid teacher certificate; satisfactory score on the general section (verbal/quantitative/analytical) of the GRE or the Miller Analogies Test; an interview; and fulfillment of the general requirements for admission to The Graduate School, including the submission of three recommendations. Unless they have completed an undergraduate degree at an English-speaking institution, applicants whose native language is not English must submit a TOEFL score of at least 80 (internet-based score) or 570 (paper-based). Additional admission requirements for specific areas are listed in *Graduate Studies in Music* handbook. Admission decisions are based upon the applicant's total portfolio with particular weight being given to knowledge of and experience in elementary or secondary music teaching, the audition (for those desiring to present a recital), or research/writing abilities (for those desiring to write a thesis).

Major Area (15-18 hours)

- MUED 790 - Principles of Music Education
- MUED 795 - Research in Music Education and Pedagogy
- Additional MUED courses (6 hours)

Choose one of the following tracks:

- MUSC 799 - Thesis Preparation

Recital Track (5 hours)

- MUSC 711 - Graduate Applied Music
- MUSC 796 - Solo Recital

35-Credit Track (6 hours)

- Additional MUED courses (6 hours)

Other Program Requirements:

Other Studies in Music (15-17 hours)

- Advisor-approved Music Theory (3 hours)
- Advisor-approved Music History (3 hours)
- MUSC 734 - Ensemble
- Other 500 or 700-level courses in music

Proposed: Admission

The requirements for admission are: completion of an undergraduate degree in music education, including a valid teacher certificate; an interview; and fulfillment of the general requirements for admission to The Graduate School, including the submission of three recommendations. Unless they have completed an undergraduate degree at an English-speaking institution, applicants whose native language is not English must submit a TOEFL score of at least 80 (internet-based score) or 570 (paper-based). Additional admission requirements for specific areas are listed in *Graduate Studies in Music* handbook.

Admission decisions are based upon the applicant's total portfolio with particular weight

being given to knowledge of and experience in elementary or secondary music teaching, the audition (for those desiring to present a recital), or research/writing abilities (for those desiring to write a thesis).

Major Area (15-18 hours)

- MUED 790 - Principles of Music Education
- MUED 795 - Research in Music Education and Pedagogy
- Additional MUED courses (6 hours)

Choose one of the following tracks:

Thesis Track (3 hours)

- MUSC 799 - Thesis Preparation

Recital Track (5 hours)

- MUSC 711 - Graduate Applied Music
- MUSC 796 - Solo Recital

35-Credit Track (6 hours)

- Additional MUED courses (6 hours)

Other Program Requirements:

Other Studies in Music (15-17 hours)

- Advisor-approved Music Theory (3 hours)
- Advisor-approved Music History (3 hours)
- MUSC 734 - Ensemble
- Other 500 or 700-level courses in music

[Effective: Fall 2016]

New Course Proposal

PHYT 766 Essentials of Cardiopulmonary Physical Therapy (3)

Physical Therapy management of the acute and chronic cardiac and pulmonary patient.

Restricted to Physical Therapy majors.

[Effective: Summer 2016]

New Course Proposal

POLI 751 Policy Analysis I (3)

Introduction to the theory and practice of policy analysis. Policy analysis is an increasingly valued skill for students interested in working in the public, private or non-profit sectors. We have taught this course on an experimental basis in Fall of 2015 and it has proven to be very popular with MPA and PhD students (in political science and other departments). It is also a course that will serve as one of the three courses required for a policy analysis and program evaluation concentration in the MPA program that we will propose in the coming months.

[Effective: Spring 2016]

Program change

The Experimental Program has added a new course entitled Experimental Design (PSYC 702E). This course must be listed as a class which can be taken for credit as part of the

module requirements.

Program change

PSYC Clinical-Community Psychology Ph.D. (81)

Current: Major requirements: Core Psychology Courses (19hours)

- Quantitative methods and research design PSYC 709, 710: 6 hours
 - Psychometrics and psychological testing PSYC 761: 3 hours
 - Biological bases of behavior PSYC 702A: 2 hours
 - Learning PSYC 702D or cognitive bases of behavior PSYC 702B: 2 hours
 - Social bases of behavior PSYC 770 : 3 hours
 - Foundations in Developmental Psychology PSYC 820: 3 hours
- Research Courses (23 hours)
- Research methods course PSYC 772: 3 hours
 - Individual research apprenticeship first year PSYC 773: 2 hours
 - Thesis preparation second year PSYC 799: 6 hours
 - Doctoral Research and Dissertation Preparation PSYC 899: 12 hours
- Specialty Content Courses (18 hours)
- Psychological interventions PSYC 725: 3 hours
 - Lifespan psychopathology and resilience: 3 hours Foundations of community psychology PSYC 726: 3 hours
 - Foundations of community psychology PSYC 727: 3 hours
 - Seminar in community psychology PSYC 742 PSYC 745 PSYC 777 PSYC 783 PSYC 845: 3 hours
 - Ethics and issues in clinical-community psychology: 4 hours
 - Social inequality and psychology PSYC 749: 3 hours
- Practicum courses (12 hours)
- Intervention practica, 2 of 3 series, PSYC 782/830, PSYC 827/835, PSYC 829,839 : 12 hours

Other requirements: The Ph.D. degree in clinical-community psychology also requires successful completion of qualifying requirements (masters thesis and masters oral), a general comprehensive examination (comprehensive paper), a specialty comprehensive examination (either in clinical or community), an oral comprehensive examination, and a predoctoral research internship.

Also required are an approved Ph.D. dissertation, and a one- year, predoctoral, full-time internship. Most students obtain an APA-approved (or approval-seeking) internship.

Students have the option of declaring a concentration in Quantitative Methods in Psychology.

Proposed: Major requirements: Core Psychology Courses (19hours)

- Basic Quantitative Methods in the Analysis of Behavioral Data PSYC 709, 710: 6 hours
- Psychological Assessment I PSYC 761: 3 hours
- Basics of Neuroscience PSYC 702A: 2 hours
- Basics of Learning and Motivation PSYC 702D or Basics of Cognitive Psychology PSYC

702B: 2 hours

- Survey of Social Psychology PSYC 770: 3 hours
- Seminar in Developmental Psychology PSYC 820: 3 hours

Research Courses (23 hours)

- Research methods course PSYC 772: 3 hours
- Individual research apprenticeship first year PSYC 773: 2 hours
- Thesis preparation second year PSYC 799: 6 hours
- Doctoral Research and Dissertation Preparation PSYC 899: 12 hours

Specialty Content Courses (18 hours)

- Psychological interventions PSYC 725: 3 hours
- Lifespan psychopathology and resilience: 3 hours Foundations of community psychology PSYC 726: 3 hours
- Foundations of community psychology PSYC 727: 3 hours
- Seminar in community psychology PSYC 742 PSYC 745 PSYC 777 PSYC 783 PSYC 845:3 hours
- Ethics and issues in clinical-community psychology: PSYC 760 3 hours
- Social inequality and psychology PSYC 749 : 3 hours

Practicum courses (12 hours)

- Intervention practica, 1 or 2 of 2 series, PSYC 782/830, PSYC 827/835, 12 hours

Other requirements: The Ph.D. degree in clinical-community psychology also requires successful completion of qualifying requirements (masters thesis and masters oral), a general comprehensive examination (comprehensive paper), an oral comprehensive examination, and a predoctoral research internship.

Also required are an approved Ph.D. dissertation, and a one- year, predoctoral, full-time internship. Most students obtain an APA-approved (or approval-seeking) internship. Students have the option of declaring a concentration in Quantitative Methods in Psychology.

[Effective: Fall 2016]

Program change

PSYC Experimental Psychology, Ph.D. (60)

Current: Major requirements: Course work includes 9 credit hours of research methods and quantitative courses, 12 hours of PSYC 702A, PSYC 702B, PSYC 702C, and PSYC 702D or PSYC 703A, PSYC 703B, PSYC 703C, and PSYC 703D, 2 hours of ethics courses, and a minimum of 25 hours of approved elective and complementary courses. At least 6 hours of the complementary course work must be taught by someone other than the student's major professor. With the approval of their advisory committee, students may take one course from PHPH 752B, PHPH 752C, PHPH 752D, PHPH 752E, PHPH 752F, or PHPH 752G, instead of one of the courses from PSYC 702A, B, C, and D or PSYC 703A, B, C, and D. Approval of elective and complementary courses is by the student's advisory committee.

Proposed: Major requirements: Course work includes 9 credit hours of research methods and quantitative courses, 12 hours of PSYC 702A, PSYC 702B, PSYC 702C, PSYC 702D and 702E or PSYC 703A, PSYC 703B, PSYC 703C, and PSYC 703D, 2 hours of ethics courses, and a minimum of 25 hours of approved elective and complementary courses. At least 6 hours of the complementary course work must be taught by someone other than the student's major professor. With the approval of their advisory committee, students may take one course from PHPH 752B, PHPH 752C, PHPH 752D, PHPH 752E, PHPH 752F, or PHPH 752G, instead of one of the courses from PSYC 702A, B, C, and D or PSYC 703A, B, C, and D. Approval of elective and complementary courses is by the student's advisory committee.

[Effective: Fall 2016]

Course Change Proposal

PSYC 749 Social Inequality and Psychology (3)

Current: PSYC 749 Social Inequality and Psychology. Fundamental, conceptual and empirical knowledge regarding dimensions of diversity, social inequality and the application of this knowledge to psychological research, teaching and practice.

Proposed: PSYC 749 Principles of Human Diversity. Fundamental, conceptual and empirical knowledge regarding dimensions of diversity, social inequality and the application of this knowledge to psychological research, teaching and practice.

[Effective: Fall 2016]

Course Change Proposal

SOCY 701 Scientific Methods and Sociological Inquiry (3)

Current: SOCY 701 Scientific Methods and Sociological Inquiry (3)

Proposed: SOCY 700 Scientific Methods and Sociological Inquiry (3)

[Effective: Fall 2016]

Course Change Proposal

SOCY 702 Sociology Proseminar (1)

Current: SOCY 702 Sociology Proseminar (1)

Proposed: SOCY 780 Sociology Proseminar (1)

[Effective: Fall 2016]

Course Change Proposal

SOCY 710 Selected Scholars of Society and Social Behavior: Classical (3)

Current: Selected Scholars of Society and Social Behavior: Classical. Survey of theoretical and empirical works of sociological scholars prior to about 1920.

Proposed: Theoretical Foundations of Sociology. Survey of theoretical and empirical works of sociological scholars.

[Effective: Fall 2016]

Course Change Proposal

SOCY 711 Selected Scholars of Society and Social Behavior: Contemporary (3)

Terminate Course.

[Effective: Fall 2016]

Course Change Proposal

SOCY 712 Concept Formation (3)

Terminate Course.

[Effective: Fall 2016]

Course Change Proposal

SOCY 713 Theory Construction (3)

Current: SOCY 713 Theory Construction (3)

Proposed: SOCY 711 Theory Construction (3)

[Effective: Fall 2016]

Course Change Proposal

SOCY 720 Critical Survey of Research Methods (1-3)

Current: SOCY 720 Critical Survey of Research Methods (1-3)

Proposed: SOCY 720 Survey of Research Methods (3)

[Effective: Fall 2016]

Course Change Proposal

SOCY 721 Topics in Scaling and Measurement Methods (3)

Current: SOCY 721 Topics in Scaling and Measurement Methods

Proposed: SOCY 733 Topics in Scaling and Measurement Methods

[Effective: Fall 2016]

New Course Proposal

SOCY 734 Experimental Methods in Sociology (3)

Purposes, design and implementation of laboratory experiments in sociology.

[Effective: Fall 2016]

Course Change Proposal

Change course number, title and description and add a prerequisite.

SOCY 739 Selected Topics in the Quantitative Analysis of Sociological Data (3)

Current: SOCY 739 Selected Topics in the Quantitative Analysis of Sociological Data (3)

Proposed: SOCY 731 Topics in the Quantitative Analysis of Sociological Data (3)

Recursive and non-recursive modelling, multiple regression using longitudinal data, event history analysis.

[Prerequisite: SOCY 701]

[Effective: Fall 2016]

New Course Proposal

SOCY 746 Sociology of the Family (3)

Sociological theories of the family and social change.

[Effective: Fall 2016]

Course Change Proposal

Change credit hours from variable to fixed, correct name of title and change prerequisite number.

SOCY 749 Selected Topics in Demography (3)

Current: SOCY 749 Selected Methodological Topics in Demography (1-3)

Proposed: SOCY 749 Selected Topics in Demography (3)

[Prerequisite: SOCY 700]

[Effective: Fall 2016]

Course Change Proposal

Change course number.

SOCY 751 Topics in the Analysis of Social Networks (3)

Current: SOCY 751 Topics in the Analysis of Social Networks (3)

Proposed: SOCY 732 Topics in the Analysis of Social Networks (3)

[Effective: Fall 2016]

Course Change Proposal

Change course number. SOCY 760 Contemporary Group Processes (3)

Current: SOCY 760 Contemporary Group Processes (3)

Proposed: SOCY 765 Contemporary Group Processes (3)

[Effective: Fall 2016]

Course Change Proposal

Terminate Course.

SOCY 761 Network Exchange Theory (3)

[Effective: Fall 2016]

Course Change Proposal

Terminate course and cross-list with HIST 764.

SOCY 764 History of American Women (3)

Terminate Course.
[Effective: Spring 2016]

Course Change Proposal
Terminate Course.
SOCY 766 The Social Psychology of Race (3)
[Effective: Fall 2016]

Course Change Proposal
Change course number and prerequisite number.
SOCY 770 Teaching Sociology (1-3)

Current: SOCY 770 Teaching Sociology (1-3)
Proposed: SOCY 781 Teaching Sociology (1-3)
[Prerequisite: SOCY 700]
[Effective: Fall 2016]

Course Change Proposal
Terminate Course. SOCY 777 Evolution, Altruism, and Morality (3)
Terminate Course.
[Effective: Fall 2016]

Course Change Proposal
Terminate Course.
SOCY 796 Research Apprenticeship (3)
Terminate Course.
[Effective: Fall 2016]

Course Change Proposal
Terminate Course.
SOCY 814 Theories of Population Dynamics (3)
Terminate Course.
[Effective: Fall 2016]

Course Change Proposal
Terminate Course.
SOCY 841 Advanced Demographic Analysis (3)
Terminate Course.
[Effective: Fall 2016]

Program change
THDC MAT in Theatre (45)

Current: The M.A.T. degree requires 45 semester hours of graduate-level course work,

with 6-15 credits in professional education, 15-24 credits in the teaching content area, and 15 hours in internship and seminar. Eligibility for admission is limited to those persons seeking initial teacher certification. Candidates must complete additional course work in professional education and/or their teaching content area at the undergraduate and graduate levels as necessary.

Proposed: The M.A.T. degree requires 45 semester hours of graduate-level course work, with 6-15 credits in professional education, 15-24 credits in the teaching content area, and 15 hours in internship and seminar. To meet SC Read to Succeed requirements, students completing the MAT in Theatre must include in their program of study: EDRD 732-Teaching Reading in the Content Areas. Eligibility for admission is limited to those persons seeking initial teacher certification. Candidates must complete additional course work in professional education and/or their teaching content area at the undergraduate and graduate levels as necessary. (Letter of concurrence received.)
[Effective: Fall 2016]

Program change

ZZBA Professional MBA Program (48)

The Professional Master of Business Administration program is a non-traditional M.B.A. program designed for working professionals and attracts students from a broad range of business and industry. The program is delivered live to many locations in South Carolina and Charlotte, N.C. Each location is equipped for two-way communication with the professor during class.

Admission

Requirements for admission to the program conform to the general regulations of The Graduate School and the accreditation standards of AACSB International-the Association to Advance Collegiate Schools of Business. Admission decisions are based on a holistic review of standardized test score performance, professional experience, previous scholastic performance, professional recommendations, a clear statement of purpose and, in some cases, a personal interview. We are pleased to consider a waiver of the GMAT/GRE requirement for applicants with advanced degrees and/or significant and progressive professional experience supported by an exceptional academic record. Please contact our recruiting team to discuss your individual circumstances. Prospective students can apply online at

<https://app.applyyourself.com/AYApplicantLogin/ApplicantConnectLogin.asp?id=mooresch>.

International applicants whose native language is not English are also required to submit a satisfactory score on the TOEFL or the IELTS Intl. Academic Course Type 2 exam.

Otherwise-qualified candidates are required to achieve a TOEFL score of at least iBT 100 or 600 paper-based or a score of at least 7.0 on the IELTS exam. The TOEFL is not required of international students who have a degree from an American college or university. Graduates of foreign universities or colleges who have completed an academic program equivalent to a bachelor's degree from a U.S. institution are encouraged to apply for admission.

A profile of recently successful applicants to this program include a GRE score of 306 or a

GMAT score of 590, competitive academic record, more than 7 years of business-related experience, two letters of reference from professionals highlighting the potential for success in this graduate program, a clear and articulate statement of purpose from the candidate, and a positive impression in a personal interview, if an interview is deemed necessary.

Current:

Degree Requirements (48 Hours)

The degree requirements include the following courses in the Moore School of Business:

Course Work

- ACCT 728 - Financial Accounting
- ACCT 729 - Managerial Accounting
- MGSC 711 - Quantitative Methods in Business
- ECON 720 - Managerial Economics
- FINA 760 - Financial Policies
- MBAD 702 - Strategic Management
- MGMT 770 - Competing through People
- MGSC 791 - Operations Management
- MGSC 796 - Information Systems
- MKTG 701 - Marketing Management

Elective courses in the Moore School of Business (18 Hours)

These electives are chosen from a number of approved elective offerings of the Moore School of Business.

To complete the international business concentration, students are required to take four of their six electives in international business. One of these electives must be IBUS 750, an offshore learning experience.

Proposed:

Degree Requirements (48 Hours)

The degree requirements include the following courses in the Moore School of Business:

Course Work

- ACCT 728 - Financial Accounting
- ACCT 729 - Managerial Accounting
- MGSC 711 - Quantitative Methods in Business
- ECON 720 - Managerial Economics
- FINA 760 - Financial Policies
- MBAD 702 - Strategic Management
- MGMT 770 - Competing through People
- MGSC 791 - Operations Management
- MGSC 796 - Information Systems
- MKTG 701 - Marketing Management

Elective courses in the Moore School of Business (18 Hours)

These electives are chosen from a number of approved elective offerings of the Moore

School of Business.

To complete the international business concentration, students are required to take four of their seven electives in international business. One of these electives must be IBUS 750, an offshore learning experience.

[Effective: Fall 2016]

New Concentration

ZZBA Marketing (12)

Marketing managers must see customers, products and services as assets. The PMBA Marketing Concentration builds skills in marketing strategy, research and consumer behavior. Courses in customer relationship management/datamining and internet marketing are also offered.

Four electives may be selected from the following:

MKTG 702: Marketing Research

MKTG 704: Consumer Behavior

MKTG 705: Marketing Communications

MKTG 707: New Product and Brand Management

MKTG 715: Pricing Strategy and Analysis

MKTG 717: Marketing Spreadsheet Modeling

MKTG 708: Customer Relationship Management and Datamining

MKTG 712: Topics in Marketing Thought and Practice

[Effective: Fall 2016]

Academic Certificate change

ZZBA Business Analytics Certificate (12)

Current: This certificate is designed to complement graduate degree programs offered within the Darla Moore School of Business. It is designed to enhance the career opportunities of students by providing critical skills related to business analytics. Requirements for admission are the same as those for the Moore School MBA program. To obtain this graduate certificate, students must complete a 4-course sequence in Business Analytics, with a GPA of 3.0 or better in these four courses. There are three distinct channels through which this certificate can be delivered.

1. As an option for AMBA, IMBA and PMBA students. The certificate would appear on the graduate transcript of these students.
2. As a standalone (non-degree) option, for which students pay a per-course fee and take the four courses with the AMBAs/IMBAs/PMBAs. All four courses must be completed within a certain time period, e.g. 24 months.

The courses for this certificate were determined based on conversations with potential employers about critical business analytics skills, as well as an analysis of the curricula at the top 30 business analytics programs in the U.S. To obtain the certificate, students must take the following 3 courses:

- MGSC 891 - Data Resource Management
- MGSC 777 - Advanced Quantitative Methods in Business
- MKTG 708 - Customer Relationship Management and Data Mining

In addition, students must choose 1 of the following 4 courses:

- MKTG 717 - Marketing Spreadsheet Modeling
- MGSC 778 - Revenue Management
- CSCE 590 - Topics in Information Technology
- FINA 772 - Student-Managed Investments

Students may request that other courses be substituted for the courses listed above. All such requests must be approved by the Moore School Analytics Programs Committee

3. As an accelerated, customized executive education program

Proposed: To obtain this graduate certificate, students must complete a 4-course sequence in Business Analytics, with a GPA of 3.0 or better in these four courses. All students pursuing the BA certificate must apply for and be admitted to the BA certificate program. Note that this admissions process is separate from degree program admissions. There are three distinct channels through which this certificate can be delivered:

1. As an option for all DMSB graduate students. The certificate would appear on the graduate transcript of these students. Requirements for admission to the BA certificate program for these students are the same as those for the student's respective DMSB graduate program. These students must apply for the certificate prior to completing 24 hours of coursework in their graduate program.
2. As a standalone (non-degree) option, for which students pay a per-course fee and take the four courses with the DMSB graduate students. Students can use the credits obtained from the BA certificate for a future DMSB graduate degree program as long as the completion of the degree is within four years of the completion of the certificate. Requirements for admission to the BA certificate program for these students are similar to those for the DMSB PMBA program.
3. As an accelerated, customized executive education program. Students can use the credits obtained from the BA certificate for a future DMSB graduate degree program as long as the completion of the degree is within four years of the completion of the certificate. Requirements for admission to the BA certificate program for these students are similar to those for the DMSB PMBA program.

The certificate includes the following courses in the Darla Moore School of Business:

- MGSC 891 - Data Resource Management
 - MGSC 777 - Advanced Quantitative Methods in Business
 - MKTG 708 - Customer Relationship Management and Data Mining
- In addition, students must choose 1 of the following 4 courses:
- MKTG 717 - Marketing Spreadsheet Modeling
 - MGSC 778 - Revenue Management
 - CSCE 587 - Big Data Analytics
 - FINA 772 - Student Managed Investments

Students may request that other courses be substituted for the courses listed above. All such requests must be approved by the Moore School Analytics Programs Committee.

Note: Students for this certificate are not eligible for federal financial aid.

[Effective: Fall 2016]

Program Change

ZZED Curriculum and Instruction, Ed.D. Education (60)

Current: College of Education Program (Ed.D. in Curriculum and Instruction)

Curriculum and Instruction, Ed.D.

