

Teaching and Learning

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General Information

The Department of Teaching and Learning offers graduate degrees leading toward the Master of Science, Education Specialist, Doctor of Education degrees, and Doctor of Philosophy degrees.

Additionally the department offers a Master of Arts in Teaching (MAT) in Art Education for students who do not hold a bachelor's degree in education. This degree leads to State of Florida teacher certification Art Education.

The department is committed to the generation and application of knowledge through research and service to the community.

Master of Arts in Teaching

Art Education (K-12)

Master of Science Programs

Art Education

Curriculum and Instruction

Specializations in:

- Curriculum Development
- Elementary Education
- English Education
- Modern Language Education
- Learning Technologies
- Mathematics Education
- Physical Education
- Science Education
- Social Studies Education
- Special Education

Early Childhood Education

Foreign Language Education

Physical Education

Sport Science Track

Reading Education (K-12)

Special Education

Educational Specialist Program

Curriculum and Instruction

Specializations in:

- Art Education
- Early Childhood Education
- Elementary Education
- English Education
- Instructional Leadership
- Learning Technologies
- Mathematics Education
- Modern Language/Bilingual Education
- Reading Education
- Science Education
- Social Studies Education

Doctor of Education in Curriculum and Instruction

Specializations in:

- Art Education
- Early Childhood Education
- Elementary Education
- English Education
- International and Intercultural Development

Education

- Instructional Leadership
- Learning Technologies
- Mathematics Education
- Modern Language/Bilingual Education
- Reading Education
- Science Education
- Social Studies Education

Doctor of Education in Exceptional Student Education

Doctor of Philosophy in Curriculum and Instruction

Specializations in:

- Language, Literacy and Culture
- Mathematics, Science and Learning Technologies
- Curriculum and Instruction

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured admission.

Other Programs:

Education Minor and Alternative Certification (not a degree program)

Master of Arts in Teaching

The Master of Arts in Teaching is offered in Art Education and is for candidates without a certification in teaching. This degree is no less rigorous than the advanced master degree program, but includes courses which provide the necessary background in professional education.

Master of Arts in Teaching Art Education (K-12)

Degree Program Hours: (54)

Admission Requirements

1. BFA or a Bachelor's degree or a strong minor (30 hours with a 3.0 GPA or higher) in Fine Arts and a minimum of 3.0 cumulative GPA or higher for the last 60 hours of upper division coursework.
2. Passing scores on all sections of the General Knowledge Exam (GK) or CLAS or GRE (considered on an individual basis). Note: GRE is NOT required, but can be used in place of GK. However, GK is recommended as it is an exit requirement.
3. In addition the applicant must submit two (2) letters of recommendation, a résumé, a statement of personal philosophy/professional goals consistent with the objectives of the masters program. Letters and any other supporting documents are to be sent to FIU Graduate Admissions Office, 11200 SW 8th Street, PC 230, Miami, FL 33199.
4. After submission of application, applicants must schedule a portfolio interview with the Graduate Program Director. The Portfolio should contain fifteen (15) pieces of artwork including at least three (3) drawings.

Required Courses: (54)

EDF 5443	Measurement and Evaluation in the Classroom	3
EDF 5517	Education in American History	3
EDG 5414	Instructional Strategies in Teaching	3
EDP 5053	Educational Psychology: Principles and Applications	3
EEX 6051	Educational Needs of Students with Exceptionalities	3
ESE 5344C	Secondary Classroom Management	3
RED 5339	Subject Related Reading	3
TSL 5361C	TESOL for Secondary Teachers	3
ARE 4316	Special Teaching Lab: Art K-5	3
ARE 4341	Special Teaching Lab: Art 6-12	3
ARE 5945	Practicum in Art Education	6
ARE 6140	Curriculum and Instruction in Art	3
ARE 6xxx	Art Education Workshop	9
ARE 6262	Organization and Coordination of Art	3
ARE 6746	Seminar in Art Education	3

Applications to student teaching are due in the office of the Director of Student Teaching by July 1 for Spring semester placement and by March 1 for Fall semester placement. Check with the program leader early in program enrollment to determine Fall placement availability.

Graduation Requirements

1. An overall GPA of at least 3.0
2. Successful demonstration of all of the Florida Educator Accomplished Practices at the Preprofessional level
3. Passing score on all three sections of the Florida Teacher Certification Examination and official evidence provided.
4. Upload all required course and program artifacts into Taskstream account.

Note: If CLAST is passed prior to July 1, 2002, the new General Knowledge subtest may be waived.

Advanced Master of Science Degree Programs

Applicants for admission to advanced Master's programs in Education must hold or qualify for teacher certification in the appropriate area. Early Childhood Education applicants must hold or qualify for certification or equivalent in elementary, special or early childhood education (including practical teaching experience requirement). All applicants must also satisfy Board of Education admission requirements: a Bachelor's Degree or pass State of Florida Certification Exams, a GPA of 3.0 or higher for the last 60 hours of upper division coursework. Some programs require 3 letters of recommendation, an autobiography, and GRE scores. Applicants admitted with a pending GRE score must submit test score within one semester to be fully admitted or become a candidate for graduation.

NOTE: Several MS programs have different admissions requirements. Review specific degree requirements in this catalog and consult with Program Director for further information.

Master of Science in Art Education

Degree Program Hours: (36)

Admission Requirements

Applicants for admission into the Master of Science in Art Education program must meet the minimum University Graduate School admission criteria. Admission to the masters program will be based on the following criteria:

1. Applicants for admission to the MS-Art Education program must hold or qualify for the Florida teacher certification in art. All applicants must also satisfy the Board of Education admission requirements. A GPA of 3.0 or higher in the last 60 semester hours of upper division undergraduate study.
2. Application materials must include two (2) letters of recommendation, a résumé, a statement of personal philosophy/professional goals consistent with the objectives of the masters program.
3. After submission of application, applicants must schedule a portfolio interview with the Graduate Program Director. The Portfolio should contain fifteen (15) pieces of artwork including at least three (3) drawings.

Transfer of Credit

Students may be allowed to apply up to six semester hours of course work taken at accredited institutions to the masters program requirements with the following stipulations:

- The student received a grade of 3.0 or better on a 4.0 scale.
- The course was relevant, as judged by the Admissions Committee.
- The course is listed on an official transcript received by the Graduate Admissions Office.
- The course will be no older than 6 years at the time of graduation with a masters degree.
- The course meets all University requirements.

Education, including Art

Professional Studies: (6)

EDF 5481 Foundations of Educational Research 3

Select one of the following:

EDE 6205 Curriculum Design for Childhood Education 3

or

ESE 6215 Secondary School Teaching Field 3

or

EEX 6051 Education of Students with Exceptionalities 3

or

EDS 6050 Supervision and Staff Development 3

or

EDF 5955 Field Study Abroad 3

or

EDF 6211 Psychological Foundations of Education 3

Art/Art Education: (30)

ARE 6140 Curriculum and Instruction in Art 3

ARE 6262 Organization and Coordination of School and Community Art Programs 3

ARE 6746 Seminar in Art Education: Contemporary Issues and Research 3

ARE 6925-29 Workshop in Art Education 6

Art History 3
Studio Art (Three semester hours credit for each studio course) 12

Master of Science in Curriculum and Instruction

The Master of Science in Curriculum and Instruction program requires 36 semester hours beyond the bachelors degree. Up to 6 semester hours of graduate credit may be transferred into the masters program. The Master of Science in Curriculum and Instruction program includes five required components:

1. Curriculum and Instruction Core (9 semester hours)
2. Curriculum and Instruction Elective (3 semester hours)
3. Research Core (6 semester hours)
4. Content Specializations (18 semester hours)
5. Professional Conference (Exhibition)

Admission Requirements

Applicants for admission into the Master of Science in Curriculum and Instruction program must meet the minimum University Graduate School admission criteria. Admission to the masters program will be based on the following criteria:

1. Hold or qualify for teacher certification in an appropriate area. For the Elementary Education specialization, applicants must hold or qualify for Florida certification or equivalent in elementary education, early childhood education, or special education (including practical teaching experience).
2. A bachelor's degree in an appropriate area from an accredited institution.
3. A GPA of 3.0 in the last 60 semester hours of upper division undergraduate study.
4. Two (2) letters of recommendation to support the application. Letters and any other supporting documents are to be sent to FIU Graduate Admission Office, 11200 SW 8th Street, PC 230, Miami, FL 33199.
5. A statement of personal philosophy/professional goals consistent with the objectives of the masters program.
6. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the IBT TOEFL or 6.5 overall on the IELTS is required. (Exceptions: Students who completed an undergraduate or graduate program from a U.S. institution or accredited higher education institution in other English-speaking countries).

Transfer of Credit

Students may be allowed to apply up to six semester hours of course work taken at accredited institutions to the masters program requirements with the following stipulations:

- The student received a grade of 3.0 or better on a 4.0 scale.
- The course was relevant, as judged by the Admissions Committee.
- The course is listed on an official transcript received by the Graduate Admissions Office.

- The course will be no older than 6 years at the time of graduation with a masters degree.
- The course meets all University requirements.

Admission Procedures

In order to begin the masters program, a student must be accepted into the University Graduate School and the program in Curriculum and Instruction. Admission procedures are as follows:

1. Complete the online graduate admission application available at <http://gradschool.fiu.edu>. Official transcripts of all prior college work must be sent to the Graduate Admissions Office at Florida International University, PO Box 659004, Miami, Florida, 33265 to complete the application for admissions. Omission of any one of these items will delay the processing of the application.
2. Two letters of recommendation must be sent. Letters are to be from those who have knowledge of the applicant's prior professional experience (e.g. a supervisor) or of the applicant's ability to perform graduate work (e.g., a professor) and should attest to the applicant's intellectual ability, motivation, maturity, and potential. Letters and any other supporting documents are to be sent to FIU Graduate Admission Office, 11200 SW 8th Street, PC 230, Miami, FL 33199.
3. Once the University application procedures are completed, the Graduate Admissions Office forwards the applicant's materials to the Department of Teaching and Learning. The file is then forwarded to the program faculty for review. On the basis of its review, the program faculty will (1) recommend admission, (2) withhold a decision and request additional information from the applicant, or (3) deny admission.
4. Admission to the program is determined by the program faculty on the basis of its evaluation of the applicant's academic and professional credentials.
5. Meeting the minimum admission requirements does not guarantee admission into the program.

Program of Study

Curriculum and Instruction Core: (9 semester hours)

EDG 6250	Curriculum Development	3
EDG 6627	Seminar: Trends and Issues in Curriculum and Instruction	3

Special Methods of Teaching

Choose one of the following:

EDE 5267	Education of the Child in Urban Society (Required for Elementary, Special Education, and Curriculum Development Specializations)	3
EME 5315	Instructional Media	3
FLE 6336	Methods of Teaching Modern Language	3
LAE 6339	Teaching English in the Secondary School	3
MAE 6336	Teaching Mathematics in the Secondary School	3
PET 5716	Analysis and Observation of Teaching in Phys. Ed.	3
SCE 6366	Teaching Science in the Secondary School	3
SSE 6633	Teaching Social Studies in the Secondary School	3

TSL 6350	Troublesome English: Grammar for ESOL Teachers	3
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Curriculum and Instruction Elective (3 semester hours)

Advisor approved elective in Curriculum and Instruction	3
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Research Core: (6 semester hours)

EDF 5481	Foundations of Educational Research	3
EDF 6487	Field Research for Educators	3

Content Specialization (18 semester hours)

Choose from one of the following specializations:

1. Elementary Education
2. English Education
3. Learning Technologies
4. Mathematics Education
5. Modern Language Education
6. Science Education
7. Social Studies Education
8. Special Education
9. Physical Education
10. Curriculum Development

Professional Conference (Exhibition)

Content Specializations

1. Elementary Education (18 semester hours)

Select 4 graduate courses (with Advisor approval) from the following areas in the College of Education (no more than 6 semester hours from any one area):

- Art Education
- Early Childhood Education
- Mathematics Education
- Reading
- TESOL
- Science Education
- Social Studies Education
- Special Education

Select 2 graduate courses (with Advisor approval) from the following areas in the College of Arts and Sciences:

- Linguistics
- Psychology
- Sociology

2. English Education (18 semester hours)

Select (with Advisor approval) 6 graduate level courses in English/English Education.

3. Learning Technologies (18 semester hours)

EME 6408	Microcomputers as Teaching Tools	3
EME 5602	Multimedia in the Classroom	3
EME 6412	Educational Courseware Evaluation and Development	3
COP 6007	Computer Programming Concepts	3
CGS 6834	Programming for the Web	3
EME 6905	Directed Study: Computer Education	3

4. Mathematics Education (18 semester hours)

Select (with Advisor approval) 6 graduate level courses in Mathematics/Mathematics Education.

5. Modern Language Education (18 semester hours)

Grammar/Composition/Syntax (Specialize in language when possible) 3
 Culture/Civilization (Specialize in culture of target language when possible) 3
 Linguistics (Specialize in language when possible; course in phonology or phonetics preferred) 3

Literature (in the target language)	3
Applied Linguistics	3
TSL 5245 Developing Language and Literacy	3
TSL 6908 Field Component	3
	or
FLE 6925 Special Topics in Second Language Education	3

6. Science Education (18 semester hours)

Select (with Advisor approval) 6 graduate level courses in the Sciences/Science Education.

7. Social Studies Education (18 semester hours)

Select (with Advisor approval) 6 graduate level courses in the Social Sciences/Social Studies Education or Area Studies: African-New World Studies, Asian Studies, Latin American and Caribbean Studies, European Studies. Students are encouraged to take courses with a global/international perspective.

8. Physical Education (18 semester hours)

PET 5216 Sports Psychology	3
PET 5052 Motor Learning for Sport Perf.	3
PET 5256 Sociology of Sport	3
PET 5426 Curriculum in Physical Education	3
	or
PET 5436 Physical Education Curriculum: K-8	3
PET 5948 Practicum in Physical Education	3
PET 6597 Survey of Research in Phys. Ed.	3

9. Special Education (18 semester hours)

EEX 5075 Teaching Students with Disabilities in Inclusive Settings*	3
EEX 5068 Instructional Practices ESE I	3
EEX 5608 Behavioral Approaches to Classroom Learning Management	3
EEX 5766 Instructional and Assistive Technology in Special Education	3
EEX 6227 Assessment of Students with Exceptionalities	3
EEX 6106 Acquisition of Speech and Language Skills	3

*If students have already taken EEX 3071 at the undergraduate level, then they will instead take EEX 6051 Education of Students with Exceptionalities.

10. Curriculum Development (18 semester hours)

EDG 5417 Learning Styles Applications	3
EDE 6205 Curriculum Design in Childhood Education	3
ESE 6215 Secondary School Curriculum	3
EDG 6286 Curriculum Evaluation	3
EDG 6920 Colloquium in Curriculum and Instruction	3
EDG 7692 Politics of Curriculum	3

Master of Science in Early Childhood Education**Degree Program Hours: (36)**

The Master of Science degree in Early Childhood Education provides graduate training in the understanding and teaching of children from birth to eight. The program provides students with a foundation in curriculum and instruction and specialization in learning and development during early childhood.

Admissions Requirements

Applicants must meet the minimum University Graduate School admissions requirements. Specific requirements for admissions into the M.S. degree in Early Childhood Education are as follows:

1. A Bachelor's Degree from an accredited institution in education, psychology, human development, or related field with a 3.0 GPA on a 4.0 scale in the last 60 hours of undergraduate work.
2. Two (2) letters of recommendation to support the applicant. At least one (1) letter must be from an individual working in early childhood education. Letters and any other supporting documents are to be sent to FIU Graduate Admission Office, 11200 SW 8th Street, PC 230, Miami, FL 33199.
3. A statement of intent describing the applicant's personal and professional goals in relation to (a) how the program will help the applicant reach these goals and (b) how the applicant's goals are consistent with the program's mission.
4. A current resume/curriculum vitae that includes, at a minimum, educational history (with relevant courses listed), employment background, and relevant/related experiences.

Program Requirements

The M.S. in Early Childhood Education program requires all students to take 15 hours of foundation courses in curriculum and instruction and in methods/statistics. Students take an additional 18 hours within early childhood education/development, and 3 hours of education-related electives.

A. General Courses: (15 hours)**1. Foundations (9 hours)**

EDF 6211 Psychological Foundations of Education	3
EEC 6261 Education Programs for Younger Children	3

Choose one (1) course in social, philosophical, and/or historical foundations of education, such as EDF 6608 or equivalent special topic (EEC 5926) course.

2. Research Methods & Data Analysis (6 hours)

EDF 5481 Foundations Educational Research	3
EDF 6472 Research Methods in Ed: Introduction to Data Analysis	3

B. Early Childhood Education/Development (18 hours)**1. Required Courses (6 hours)**

EEC 6678 Research in Early Childhood Education	3
EEC 6705 Typical and Atypical Child Development	3

2. Early Education Elective Courses (12 hours)

Select four (4) advisor-approved electives in Early Childhood Education, such as

EEC 6932 Seminar in Early Childhood Education	3
LAE 5415 Children's Literature	3
MAE 6305 Instruction in Early Childhood Mathematics	3
SCE 6306 Instruction in Early Childhood Science	3
RED 6305 Instruction in Early Childhood Reading	3

C. Elective Course OR Thesis (3 hours)

Select one (1) advisor approved elective in education, psychology, human development, or related field.

Students may opt to complete a thesis instead of taking an elective course.

Graduation Requirements

Students must meet all Department, College, Graduate School, and University graduation requirements. No grades of "C-" or less received in courses that are part of a masters program of study will be accepted toward graduation.

Master of Science in Foreign Language Education

Degree Program Hours: (33)

Admission Requirements

To be admitted into the Master's degree program, a student must:

1. hold a bachelor's degree from an accredited university or college;
2. have a 'B' (3.0) average or higher in all junior and senior year course work for the bachelor's degree;
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
4. Two (2) letters of recommendation to support the applicant.
5. A statement of intent describing the applicant's personal and professional goals in relation to (a) how the program will help the applicant reach these goals and (b) how the applicant's goals are consistent with the program's mission.
6. A current resume/curriculum vitae that includes, at a minimum, educational history (with relevant courses listed), employment background, and relevant/related experiences.

Prerequisites

One course in general linguistics or the successful completion of LIN 3010 or LIN 3013.

EDF 5481	Foundations of Educational Research	3
EDF 6211	Psychological Foundations of Education	3
EDF 6608	Social, Philosophical, and Historical Foundations of Education	3
FLE 6336	Methods of Teaching Modern Language	3
FLE 6938	Seminar in Second Language Testing	3
Teaching Field: Modern Language		15
Grammar/Composition/Syntax		3
Specialize in language when possible Culture/Civilization		3
Specialize in culture of target language when possible Linguistics		3
Specialize in language when possible; course in phonology or phonetics preferred Literature in the target language		3
Applied Linguistics		3

Field Component: (3)

FLE 5908	Directed Study Foreign Language Education	1-3
	or	
FLE 6925	Special Topics in Second Language Education	3

Graduation Requirements: Students must meet all Department, College, Graduate School, and University graduation requirements. Students must have a 3.0 GPA to graduate from the program. No grades of "C-" or less received in courses that are part of a masters program of study will be accepted toward graduation.

Thesis Option: Students may opt to extend the MS program (3 to 6 additional thesis credit hours) by request.

Master of Science in Physical Education

The Master of Science degree program in Physical Education is designed to provide advanced preparation for teachers of physical education. Applicants must have a 3.0 GPA for the last 60 hours of upper-division coursework, and include an autobiographical statement, their career goals and aspirations, and three letters of professional recommendation accompanying the application. Letters and any other supporting documents are to be sent to FIU Graduate Admission Office, 11200 SW 8th Street, PC 230, Miami, FL 33199.

Degree Hours: (33)

Professional Education: (9)

EDF 5481	Analysis and Application of Educational Research	3
EDF 6608	Sociological, Philosophical, and Historical Foundations of Education	3
EDF 6211	Educational Psychology: Foundations And Application	3
PET 5206	Youth Sport	3
PET 5216	Sports Psychology	3
PET 5052C	Motor Learning	3
PET 5256	Sociology of Sport	3
PET 5426	Curriculum in Physical Education	3
	or	
PET 5436	Physical Education Curriculum	3
PET 5948	Practicum in Physical Education	3
PET 6597	Survey of Research in Physical Education and Sports	3
Electives		3

Master of Science in Physical Education: Sport Science Track

The purpose of this track is to provide an option for persons seeking a master's degree in an allied (non-teaching) career in physical education. This degree program would primarily be of interest to persons who do not presently hold Florida teaching certification credentials. This degree does not provide teacher certification for the degree recipients. Examples of potential student clientele would include all foreign and American college graduates with bachelor's degrees in sports science, education, business, recreation, the social sciences, and other areas.

Admission Requirements

Students must hold a bachelor's degree from an accredited university and have a 3.0 GPA for the last 60 hours of upper-division coursework, and include an autobiographical statement, their career goals and aspirations, and three letters of professional recommendation accompanying the application. The published university requirements for admission into the master's degree

programs must be met. Students who do not have an undergraduate major in physical education or a related area are responsible for meeting the prerequisites for any course listed in the program's curriculum. A program advisor must be consulted regarding completion of degree requirements.

Degree Hours: (33)

EDF 5481	Foundations of Ed. Research	3
PET 5216	Sports Psychology	3
PET 5256	Sociology of Sport	3
APK 5111	Advanced Exercise Physiology	3
PET 6944	Supervised Field Experience	3
PET 6597	Survey of Research in Physical Education and Sports	3
PET 5206	Youth Sports	3
PET 5368	Exercise, Diet and Weight Management	3
PET 5693	Exercise Testing and Prescription of Special Populations	3

Advisor approved electives: (6)

Please consult with an advisor for appropriate courses.

Master of Science in Reading Education

The Master of Science in Reading Education develops competencies in diagnosis and remediation, teaching of reading K to 12, and administration and supervision of remedial, corrective, developmental, and content area reading programs. The graduate is competent to take leadership in improving reading instruction and preventing reading failure in schools or clinics.

Requirements for admission to the Master's program in Reading Education are a Bachelor's Degree in Education and possess or be eligible for State of Florida professional teaching certificate, pass State of Florida Certification exams, and a 3.0 GPA or higher for the last 60 hours of upper-division coursework.

This master's track is designed to meet the needs of students interested in reading assessment and instruction. This track leads to state certification.

Degree Program Hours: (36)

Required sequence of courses:

RED 6314	Theory and Instruction in Literacy	3
LAE 6319	Integrated Language Arts	3
LAE 5415	Children's Literature	3
EDF 6211	Psychological Foundations of Education	3
RED 6336	Content Area Reading	3
EDF 5481	Foundations of Educational Research	3
RED 6546	Diagnosis of Reading Difficulties	3
RED 6515	Programs of Remediation in Reading	3
RED 6747	Research in Reading	3
RED 6540	Reading Assessment	3
RED 6805	Practicum in Reading	3
RED 6247	Organization and Supervision in Reading	3

Entry to Program

Students are encouraged to meet all admission requirements prior to beginning the program; however, students may take a maximum of twelve (12) semester hours of course work applicable to the program prior to admission. Only courses with a grade of "B" or better taken prior to admission can be included.

Graduation Requirements

Students must have a 3.0 GPA to graduate from the program. No grades of "C-" or less received in courses that are part of a Masters program of study will be accepted toward graduation. All candidates must pass all sections of the Florida Teacher Certification Exam (FTCE), which includes the General Knowledge (GK), Professional Education and the Reading Subject Area Exams. All MS in Reading Education students must have ESOL Endorsement or have taken TSL 5361C prior to graduation. Also, students must demonstrate successful completion of the Florida Educator Accomplished practices. Students must submit evidence of passing all sections of the FTCE exam prior to the end of the final week of the semester in which they are applying for graduation.

Thesis Option: Students may opt to extend the MS program (6 additional thesis credit hours) by request.

Master of Science Degree in Special Education

The major competencies in the Master's Degree program in Special Education are an extension and refinement of those developed by the student in the undergraduate special education curriculum.

Program applicants are required to submit an on-line application to the Office of Graduate Admissions, three letters of recommendation (at least one from academic sources and one from work or volunteer experience), and an autobiographical statement. Candidates are admitted by action of the Department's Graduate Admissions Committee. Criteria for program acceptance include undergraduate grade point average of 3.0 or higher for the last 60 hours of upper division coursework, work and volunteer experience, quality and source of letters of recommendation, and the candidate's career aspirations and goals. Applicants with less than a 3.0 GPA may be granted conditional admittance. These applicants must take 12 graduate credits and earn a 3.25 GPA to be considered for full admittance. Applicants who do not hold a valid Florida Teaching Certificate must complete all requirements for certification in addition to degree requirements. There are some variations in entrance requirements for in-field vs. out-of-field majors. See specifics under each description that follows. Letters and any other supporting documents are to be sent to FIU Graduate Admission Office, 11200 SW 8th Street, PC 230, Miami, FL 33199.

In-Field Majors

The following master's program of study is for the student who holds Florida certification in the field of special education. To qualify for admission to the program, students must have the following:

- An undergraduate GPA of 3.0 or higher in the last 60 credit hours of undergraduate study.
- A valid Florida teaching certificate in special education. If the applicant does not hold a valid Florida teaching certificate, all certification requirements must be met.
- Three letters of recommendation with at least one from an academic source and one from work or volunteer experiences.

- A well written autobiographical statement.

Degree Program Hours: (36)

Required Core For All Students: (27)

EDF 6608	Social, Philosophical, and Historical Foundations of Education	3
EDP 6211	Educational Psychology: Foundations and Applications	3
EDF 5481	Foundations of Educational Research	3
EEX 6848	Seminar in Special Education: Issues and Trends	3
EEX 6535	Seminar in Special Education: Supervision and Leadership	3
EEX 6912	Advanced Theory and Research in Special Education	3
SPS 6199	Family-School Consultation and Collaboration	3
EEX 6765	Instructional Technology	3
EEX 6228	Integration of Assessment, Curriculum and Instruction	3

Area of Concentration 9

Area of concentration may be selected from an endorsement such as ESOL, reading, or other areas as planned and approved by student and advisor.

Educational Specialist in Curriculum and Instruction

Degree Program Hours: (36)

The Educational Specialist Degree (Ed.S.) in Curriculum and Instruction is offered for teachers and other professional educators who are seeking an advanced graduate degree. The program introduces professional educators to the theoretical basis of curriculum and instruction and provides opportunities for students to connect theory with practice. The following areas of specialization are offered: Art Education, Early Childhood Education, Elementary Education, English Education, Instructional Leadership, Learning Technologies, Mathematics Education, Modern Language/Bilingual Education, Reading Education, Science Education, and Social Studies Education. The program requires a minimum of 36 semester hours beyond the masters. Ed.S. coursework may not necessarily be applicable to the doctoral program.

Admission Requirements

Admission to the specialist program will be based on the following criteria:

1. A master's degree in Education or related areas from an accredited institution.
2. A satisfactory grade point average (at least 3.25) in all prior graduate work and a satisfactory grade point average (at least 3.0) in the last 60 semester-hours of undergraduate work
or
Official Graduate Record Examination (GRE) scores. In any case, the GRE score must be submitted.
3. Two (2) letters of recommendation to support the application. Letters and any other supporting documents are to be sent to FIU Graduate Admission

Office, 11200 SW 8th Street, PC 230, Miami, FL 33199.

4. A statement of career goals in professional education consistent with the objectives of an advanced graduate program.
5. A personal interview with a committee of program faculty.
6. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the IBT TOEFL or 6.5 overall on the IELTS is required.

Curriculum and Instruction Core: (12 Hours)

EDG 6250	Curriculum Development	3
EDG 6286	Curriculum Evaluation and Improvement in Urban School Systems	3
EDG 7222	Curriculum: Theory and Research	3
EDG 7362	Instruction: Theory and Research	3

Content Specialization: (12-18 Hours)

Art Education
Early Childhood Education
Elementary Education
English Education
Instructional Leadership
Learning Technologies
Mathematics Education
Modern Language/Bilingual Education
Reading Education
Science Education
Social Studies Education

Research Core: (6 hours)

EDF 6472	Research Methods in Education: Introduction to Data Analysis (Prerequisite: EDF 5481)	3
EDF 6475	Qualitative Foundations of Educational Research (Prerequisite: EDF 5481)	3

Action Research Option: (3 Hours)

EDF 6487	Field Research for Educators	3
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Student identifies, designs, conducts, and defends a classroom action research project.

or

Thesis Option: (6 hours)

EDG 6971		6
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Student identifies, designs, conducts, and defends an original research in an appropriate area of curriculum and instruction. This option is strongly recommended for students who plan to enroll in a doctoral program in the future.

Transfer of Credit

Students may be allowed to apply up to six semester hours of course work taken at an accredited institution to the Specialist program requirements with the following stipulations:

- the student received a grade of 3.0 or better on a 4.0 scale
- the course was relevant, as judged by the Admissions Committee
- the course is listed on an official transcript received by the Graduate Admissions Office

- the course will be no older than 6 years at the time of graduation

Doctor of Education in Curriculum and Instruction

Common Admission Requirements

The College of Education has common admission requirements for its Doctoral Programs regardless of the specialty sought. Applicants to the program must submit the following records and documents to the Graduate Admissions Office:

- A completed Application for Graduate Admission with appropriate fees.
- An official copy of the Graduate Record Exam (GRE) scores.
- Official transcripts of all higher education institutions attended.

Additionally, applicants must submit the following to the Office of Research and Graduate Studies (OGS) in the College of Education.

- Three letters of reference attesting to the applicant's ability to succeed in doctoral study. Letters and any other supporting documents are to be sent to FIU Graduate Admission Office, 11200 SW 8th Street, PC 230, Miami, FL 33199.
- A current resume/vitae.
- A statement that sets forth the applicant's career goals and relates these goals to the completion of the doctoral program.

No action will be taken on incomplete files. A file is considered incomplete if any of the above is missing. The application and all supporting documentation are reviewed by program faculty. The criteria applied in reviewing the applicant's file are noted below. Exceptions to one or more of the stated criteria may be granted provided the applicant can provide compelling reasons and evidence.

- A grade point average (GPA) of at least 3.0 (on a 4.0 scale) in upper level undergraduate work.
- A 3.25 GPA in all graduate work attempted.
- A master's degree from an accredited institution.
- Official GRE scores.
- International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (ALTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the ALTS is required.

Upon completion of the review of the file the applicant will be interviewed by program and departmental faculty which comprise a Faculty Admissions Committee. Final decisions are made by the Faculty Admissions Committee, the Dean of the College, and the Dean of the University Graduate School. As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. A candidate for admission to the program will be judged not only on the basis of quantitative criteria, but also in relation to prior experience, especially as it relates to future career goals. Additional information is available from the Coordinator of Doctoral Programs or Program Faculty.

Curriculum and Instruction Core Courses: (15 credits Required)

EDG 7222	Curriculum: Theory and Research	3
EDG 7362	Instruction: Theory and Research	3
EDG 7923C	Doctoral Seminar in Curriculum Studies (3 credit hours per semester – Fall/Summer)	6

Select one from the following:

EDG 7665	Seminar in Curriculum	3
EDG 7667C	Advanced Topics in Curriculum Studies	3
EDG 7692C	Politics of Curriculum	3

Research Core Courses: (12 credits Required)

EDF 5481 - Foundations of Educational Research is a prerequisite for all Research Core courses.

EDF 6472	Research Methods in Education: Introduction to Data Analysis	3
EDF 6481	Educational Research Methodology	3
EDF 6486	Advanced Data Analysis in Quantitative Educational Research	3
EDF 6475	Qualitative Foundations of Educational Research	3

Students, in consultation with an Advisor, may take one or both of the following courses in addition to the above required courses:

EDF 7403	Data Analysis in Multivariate Educational Research	3
EDF 6476	Advanced Methods of Qualitative Educational Research	3

Professional Education Core Courses: (6 credits Required)

EDF 7937	Advanced Topics in Social Foundations of Education	3
EDP 7057	Educational Psychology Advanced Application	3

Specialization Area: (30)

The specialty areas include art education, early childhood education, elementary education, English education, international/intercultural development education, instructional leadership, learning technologies, mathematics education, modern language education/bilingual education, reading education, science education, and social studies education.

Cognate Area: (9)

The cognate area requires a minimum of 9 semester hours of course work in a single area of study related to the specialty. The courses should be chosen with regard to coherence and relevance to the anticipated substantive aspect of the dissertation and in consultation with the advisor. The cognate area may be taken in the College of Education, in the College of Arts and Sciences, or any other area offering courses relevant to the student's program.

Candidacy Examinations and Advancement to Candidacy

The student must successfully pass candidacy examinations covering course work and also submit copies of a dissertation proposal, which has been approved by the supervisory committee, to the Dean of the College and to the Dean of the University Graduate School.

Dissertation: (12)

The student is responsible for a minimum 12 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge in an area of early childhood education, elementary education, secondary education, one of the K-12 areas, or in instructional leadership.

The student is expected to complete the dissertation within 5 years from the date of advancement to candidacy (i.e. successful completion of all written and oral examinations, favorable recommendations of the supervisory and guidance committee, and an approved dissertation proposal). A minimum of 3 credit hours of dissertation are taken each semester the dissertation is being prepared. Continuous enrollment in dissertation study (including Summer semester) is required.

EDG 7980

Ed.D.Dissertation

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Curriculum and Instruction: Art Education (30)

Consult Program Advisor

Curriculum and Instruction: Early Childhood Education (30)

Consult Program Advisor

Curriculum and Instruction: Elementary Education (30)

Consult Program Advisor

Curriculum and Instruction: English Education (30)

Consult Program Advisor

Curriculum and Instruction: International and Intercultural Development Education

Consult Program Advisor

Curriculum and Instruction: Instructional Leadership (30)

Consult Program Advisor

Curriculum and Instruction: Learning Technologies (30)

Consult Program Advisor

Curriculum and Instruction: Mathematics Education (30)

Consult Program Advisor

Curriculum and Instruction: Modern Language / Bilingual Education (30)

Consult Program Advisor

Curriculum and Instruction: Reading Education (30)

Consult Program Advisor

Curriculum and Instruction: Science Education (30)

Consult Program Advisor

Curriculum and Instruction: Social Studies Education (30)

Consult Program Advisor

Doctor of Education in Exceptional Student Education

The Doctoral Program in Exceptional Student Education prepares leadership personnel capable of advancing educational opportunities available to students with disabilities and the professional who serves them. The program prepares professionals for a broad view of leadership, capable of assuming roles as administrator, curriculum specialist, researcher, advocate, in-service and preservice trainer and others. Graduates take on leadership positions in schools, state government, private non-profit agencies, professional organizations, and other institutions of higher education.

Admission Requirements

Applicants to the program must submit an on-line Application for the Graduate Admissions Office with appropriate fees (<http://gradschool.fiu.edu>). Applicants must:

- Hold a master's degree from an accredited institution;
- Have a grade point average (GPA) of at least 3.0 (on a 4.0 scale) in upper level undergraduate work;
- Have a 3.25 GPA in all graduate work attempted;
- International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or overall 6.5 on the IELTS is required.

In addition, applicants must submit:

- Official copy of Graduate Record Exam (GRE) scores;
- Official transcripts of all higher education institutions attended.
- Three letters of reference attesting to the applicant's ability to succeed in doctoral study; and
- A current resume/vitae.

It is recommended that interested applicants contact a special education advisor at (305) 348-2003 to discuss the program in detail. No action will be taken on incomplete files. A file is considered incomplete if any of the above is missing.

The application and all supporting documentation are reviewed by program faculty. An on-site interview by program and departmental faculty which comprise a Faculty Admissions Committee will be scheduled for viable candidates. Final admission recommendations are made by the Faculty Admissions Committee and the Dean of the College.

As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. A candidate for admission to the program will be judged not only on the basis of quantitative criteria (listed elsewhere in this catalog) but also in relation to prior experience, especially as it relates to future career goals. Exceptions to one or more of the stated criteria may be granted provided the applicant can provide a compelling justification and evidence.

Degree Requirements

The Ed.D. in Exceptional Student Education requires a minimum 75 semester hours beyond the master's degree.

Professional Studies Core: (6)

EDP 7057	Educational Psychology: Advanced Applications	3
EDF 7937	Advanced Topics in Social Foundations of Education	3

Special Education Core: (18-24)

EEX 7795	Advanced Issues in the Education of Culturally and Linguistically Diverse Students with Exceptionalities	3
EEX 7933	Advanced Topics in Special Education (<i>repeated 3 times</i>)	9
EEX 6863	Supervised Field Experience in Special Education	3-9
EEX 7977	Research and Evaluation in Special Education	3

Research Methods and Statistics: (18)

EDF 6472	Research Methods in Education: Introduction to Data Analysis	3
EDF 6486	Advanced Data Analysis in Quantitative Educational Research	3
EDP 7058	Behavioral Intervention Research and Evaluation in Education	3
EDF 7403C	Data Analysis in Multivariate Educational Research	3
EDF 6475	Qualitative Foundations of Educational Research	3
EDF 6476	Advanced Methods of Qualitative Educational Research	3

Cognate or Minor Area of Study: (9-12)

Students design a cognate or minor area with their Program of Study Committee.

Dissertation Study: (24)

EEX 7980	Ed.D. Dissertation	
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Other Requirements

Leadership competency activities, candidacy research, candidacy examination, dissertation proposal, dissertation, oral defense of dissertation.

Ph.D. Program in Curriculum and Instruction

The Department of Teaching and Learning offers the Ph.D. program in Curriculum and Instruction with concentration in Language, Literacy, and Culture; Science, Mathematics, and Learning Technologies; and Curriculum and Instruction. The program is offered to prospective students who will become scholars engaged in studies within broad historical, social, political, economic, linguistic, and intellectual contexts in the country and abroad. The program seeks to produce research scholars who are well-equipped for empirical and systematic examinations of educational theories, strategies, principles, and practices related to the content and organization of curriculum and to the process and outcome of instruction. The Ph.D. program in Curriculum and Instruction enables highly select students of demonstrated ability, industry, and motivation to serve as apprentices to mentors who are established scholars in

their fields of study. Under the supervision of a faculty mentor, the students engage in a period of extensive study and investigation that culminates in the demonstrations of expertise, creativity and originality by means of independent research.

Admission Requirements

Minimum admissions requirements for the Ph.D. Program in Curriculum and Instruction are as follows:

1. A Bachelor's Degree from an accredited institution in an appropriate area with a 3.0 GPA on a 4.0 scale on the last 60 hours of undergraduate work.
2. Official GRE scores.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
4. Three letters of recommendation addressing the applicant's academic abilities. Letters and any other supporting documents are to be sent to FIU Graduate Admission Office, 11200 SW 8th Street, PC 230, Miami, FL 33199.
5. A letter of intent.
6. An admissions interview by the Curriculum & Instruction Admissions Committee.

The Curriculum & Instruction Admissions Committee will review, interview, and make admissions recommendation for each applicant. The GPA and GRE scores stated above are minimum requirements. Meeting the minimum requirements does not guarantee admission.

The Ph.D. Degree requires 93 semester hours beyond the bachelor's degree. Students with a master's degree directly related to the area of concentration must complete a minimum of 45 semester hours at FIU beyond their master's degree. At least 36 semester hours in the approved program of study, excluding the 24 hours of Independent Research and Dissertation, must be taken at FIU. Up to 9 semester hours of graduate credit may be transferred into the doctoral program. Each candidate must also register for a minimum of 24 semester hours of credit in independent research and dissertation directed by a qualified graduate faculty dissertation chair in the appropriate area of Language, Literacy and Culture, Science, Mathematics, and Learning Technologies, and Curriculum and Instruction.

The Ph.D. program of study includes seven required components:

1. Doctoral Core (15 semester hours)
2. Research Inquiry and Analysis (18 semester hours)
3. Cognate Study (9 semester hours)
4. Doctoral Internship (6 semester hours)
5. Major Area of Concentration (21 semester hours)
6. Residency
7. Independent Research and Dissertation (24 semester hours minimum)

1. The Doctoral Core includes a coherent sequence of courses and experiences required of all students. The Doctoral Core is divided into two areas: Curriculum & Instruction Core, Professional Education Core.

C & I Core: (15 semester hours)

EDG 7222	Curriculum: Theory and Research	3
EDG 7362	Instruction: Theory and Research	3

Choose from one of the following:

EDG 7665	Seminar in Curriculum	3
EDG 7667	Advanced Topics in Curriculum	3
EDG 7692	Politics of Curriculum	3
EDG 7923	Doctoral Seminar in Curriculum	3
EDG 7xxx	Curriculum and Instruction in the Global Setting	3

Professional Education Core: (6 semester hours)

EDF 7937	Advanced Topics in the Social Foundations of Education	3
EDP 7057	Educational Psychology: Advanced Applications	3

2. Research Inquiry and Analysis: (18 semester hours)

At least 18 semester hours of advanced course work to include specialization in analytic methods related to dissertation and the comprehensive exam component on research.

EDF 5481	Foundations of Educational Research	3
EDF 6472	Introduction to Data Analysis in Educational Research	3
EDF 6481	Educational Research Methodology	3
EDF 6486	Advanced Data Analysis in Quantitative Educational Research	3
EDF 6475	Qualitative Foundations of Educational Research	3
EDF 7403	Data Analysis in Multivariate Educational Research	3
EDF 6476	Advanced Methods of Qualitative Educational Research	3

3. Cognate Study: (9 Semester Hours)

The cognate area of study broadens the students' understanding of the conceptual base and issues underlying their declared major area of concentration. Courses in the cognate area are drawn from outside of the Department or from outside of the College and have a clear link to the anticipated dissertation efforts.

4. Doctoral Internship: (6 semester hours)

Six hours of doctoral internships are required in the areas of research and teaching/curriculum development. Each of the internships is assigned (1) semester hour credit for a total of six semester hours. The internship assignments will be completed during the student's full-time, two-year period of uninterrupted study in a supervised apprenticeship with a faculty mentor.

EDG 6943	Supervised Field Experience	6
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5. Major Area of Specialization: (21 semester hours)

(Select up to 21 semester hours in consultation with Major Professor/Committee)

Specialization I: Language, Literacy, and Culture

FLE 6938	Seminar in Second Language Testing	3
FLE 7938	Doctoral Seminar in Multicultural Education	3
LAE 6935	Seminar in English Education	3
RED 7938	Doctoral Seminar in Reading Education	3
SSE 6394	Social Studies in Other Nations	3
SSE 6795	Seminar: Research in Social Studies	3
LAE 6925	Composition Research: Issues and Trends	3
LAE 7938	Doctoral Seminar in English Education	3
RED 6747	Research in Reading	3
RED 6931	Seminar in Reading Education	3
RED 7912	Doctoral Directed Study in Reading	3
SSE 6939	Seminar in Social Studies Education	3

SSE 7938	Doctoral Seminar in Social Studies Education	3
EDE 6930	Seminar in Elementary Education	3
EDE 6488	Research in Elementary Education	3
EDE 7935	Doctoral Seminar in Elementary Education	3
SPS 7176	Consultation and Assessment with Culturally and Linguistically Diverse Populations	3
EEC 6678	Research in Early Childhood Education	3
EEC 6932	Seminar in Early Childhood Education	3
EEC 7932	Doctoral Seminar in Early Childhood Education	3

Specialization II: Mathematics, Science, and Learning Technologies

EME 6507	Advanced Interactive Multimedia	3
EME 7936	Special Topics in Learning Technologies	3
EME 7938	Advanced Seminar in Learning Technologies	3
EME 7457	Teaching and Learning at a Distance	3
MAE 7165	Curriculum Development in Mathematics Education	3
Mathematics		18
SCE 6933	Seminar in Science Education	3
SCE 7145	Curriculum Development in Science Education	3
SCE 7761	Research in Science Education	3
SCE 7938	Doctoral Seminar in Science Education	3

Specialization III: Curriculum and Instruction

EDG 6250	General Curriculum Development	3
EDG 6286	Curriculum Evaluation	3
EDG 6920	Colloquium in Curriculum and Instruction	3
ESE 6215	Secondary School Curriculum	3

6. Residency

The residency requirement consists of two calendar years of full-time study. The residency provides a period of time for productive scholarship, research, teaching, and collegiality at a professional level. The supervised internship assignment is completed during the Residency period.

Candidacy Examination and Admission to Candidacy

To be admitted to candidacy, a student must meet the Residency Requirement and complete all coursework. The student must also successfully pass the candidacy examinations covering course work approved by the Program of Study Committee. Candidates then submit copies of a dissertation proposal, which has been approved by the research committee, to the Dean of the College of Education and to the Dean of the University Graduate School.

7. Independent Research and Dissertation: (24 Semester Hours Minimum)

The dissertation will demonstrate the student's ability to conduct research of substantial rigor and contribute to advancing the knowledge base and scholarship in an area within the field of Curriculum & Instruction

EDG 7980	Doctoral Dissertation	24
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Add-on Endorsement in ESOL

Individuals who currently hold or are working toward teacher certification in Elementary, English, Foreign Language or Special Education, may receive the Add-on

Endorsement in ESOL by completing the following set of courses:

Required Courses

EDG 5707	Cultural and Cross-Cultural Studies	3
TSL 5142	Curriculum Development in ESOL	3
TSL 5245	Developing ESOL Language and Literacy	3
TSL 5371	Special Methods of TESOL	3
TSL 5938	Principles of ESOL Testing	3

Graduate Certificate Program in Grades K-5 Mathematics Teaching

The K-5 Mathematics Teaching Certificate Program enables teachers to extend their competence in teaching mathematics in elementary school. It will enhance their understanding of mathematics content, problem solving and reasoning and their knowledge of ways of teaching mathematics to students from diverse and minority backgrounds. Completion of the certificate will better prepare individuals for teaching in elementary schools that have departmentalization by subjects in elementary grades. Entrance requirements are Bachelor's degree and a 3.0 GPA in the last two years of college work.

Required Courses

MAE 5348	Numbers and Operations for Teaching in Grades K-5	3
MAE 6357	Elements of Algebra and Data Analysis for Teaching in Grades K-5	3
MAE 6358	Elements of Geometry and Measurement for Teaching in Grades K-5	3
MAE 6318	Instruction in Elementary Mathematics	3
MAE 5945	Practicum: Mathematics Education	3

With the approval of the Graduate Program Director, up to 12 graduate credits taken in the graduate certificate may be transferred into a master's degree program. If a certificate student is admitted to a master's degree program before the student has completed more than 12 graduate credits, all the credits earned in a graduate certificate program may be used toward fulfilling the requirements of the master's degree program.

Graduate Certificate Program in Grades 6-8 Mathematics Teaching

The 6-8 Mathematics Teaching Certificate Program enables teachers to extend their competence in teaching middle grades mathematics. It will enhance their understanding of mathematics content, problem solving and reasoning and their knowledge of ways of teaching mathematics to middle grades students from diverse and minority backgrounds. Completion of the certificate will better prepare individuals for teaching mathematics in middle schools. Entrance requirements are Bachelor's degree and a 3.0 GPA in the last two years of college work.

Required Courses

MAE 5382	Number Systems, Rational Numbers, and Operations for Teaching in Secondary School	3
MAE 6337	Algebra, Statistics and Probability for Teaching in Secondary School	3

MAE 6381	Proportional Reasoning, Geometry and Measurement for Teaching in Secondary School	3
MAE 6336	Teaching Mathematics in the Secondary School	3
MAE 5945	Practicum: Mathematics Education	3

With the approval of the Graduate Program Director, up to 12 graduate credits taken in the graduate certificate may be transferred into a master's degree program. If a certificate student is admitted to a master's degree program before the student has completed more than 12 graduate credits, all the credits earned in a graduate certificate program may be used toward fulfilling the requirements of the master's degree program.

Graduate Certificate Program in Grades K-5 Science Teaching

The K-5 Science Teaching Certificate Program enables teachers to extend their competence in teaching science in elementary school. It will enhance their understanding of science content, inquiry and problem solving and their knowledge of science curriculum and ways of teaching mathematics to students from diverse and minority backgrounds. Additionally, completion of the certificate will better prepare individuals for teaching in elementary schools that are departmentalized by subjects in elementary grades. Entrance requirements are Bachelor's degree and a 3.0 GPA in the last two years of college work.

Required Courses

SCE 6315	Instruction in Elementary Science	3
SCE 6931	Special Topics in Science Education	3
SCE 5314	Teaching and Learning in Elementary Science Education	3
SCE 6317	Teaching and Learning Interdisciplinary Approaches in Elementary Science Education	3
SCE 5905	Directed Study in Science Education	3

With the approval of the Graduate Program Director, up to 12 graduate credits taken in the graduate certificate may be transferred into a master's degree program. If a certificate student is admitted to a master's degree program before the student has completed more than 12 graduate credits, all the credits earned in a graduate certificate program may be used toward fulfilling the requirements of the master's degree program.

Graduate Certificate Program in Grades 6-8 Science Teaching

The 6-8 Science Teaching Certificate Program enables teachers to extend their competence in teaching middle grades science. It will enhance their understanding of science content, inquiry and problem solving and their knowledge of science curriculum and ways of teaching science to middle grades students from diverse and minority backgrounds. Completion of the certificate will better prepare individuals for teaching science in middle schools. Entrance requirements are Bachelor's degree and a 3.0 GPA in the last two years of college work.

Required Courses

SCE 6325	Instruction in Middle School Science	3
SCE 6925	Workshop in Science Education	3
SCE 6926	Workshop in Science Education	3
SCE 5937	Special Topics in Grades 6-8 Science Education	3
SCE 5905	Directed Study in Science Education	3

With the approval of the Graduate Program Director, up to 12 graduate credits taken in the graduate certificate may be transferred into a master's degree program. If a certificate student is admitted to a master's degree program before the student has completed more than 12 graduate credits, all the credits earned in a graduate certificate program may be used toward fulfilling the requirements of the master's degree program.

Graduate Certificate Program in TESOL (Teaching English to Speakers of Other Languages)

The TESOL Certificate Program enables teachers to extend their competence in teaching foreign languages, particularly English. Completion of the TESOL Certificate Program qualifies the candidate to receive a Florida State Endorsement in Teaching English to non-Speakers, grades K-12. The program also assists prospective teachers to receive a professional credential that may assist them in successful employment in other countries. Entrance requirements are Bachelor's degree and a 3.0 GPA in the last two years of college work.

Required Courses

TSL 5371	Special Methods of TESOL	3
TSL 5245	Developing ESOL Language and Literacy	3
TSL 5142	Curriculum Development in ESOL	3
TSL 5938	Principles of ESOL Testing	3
EDG 5707	Cross-cultural Studies	3

Additionally, one other course may be chosen from the following list:

LIN 5501	English Syntax	
LIN 5211	Applied Phonetics	
LIN 6706	Psycholinguistics	
LIN 5107	History of English Grammar	
LIN 5431	General Morphology/Syntax	
LIN 5574	Languages of the World	
LIN 5601	Sociolinguistics	
LIN 5625	Studies in Bilingualism	
LIN 5715	Language Acquisition	
LIN 5733	Teaching Accent Reduction	
LIN 5825	Pragmatics	
LIN 6323	General Phonology	
LIN 6562	Discourse Analysis	
LIN 6805	Semantics	
RED 5925	Instructional Thinking Strategies	
EEX 6051	Educational Needs of Students with Exceptionalities	
EDF 5255	Secondary Classroom Management	
RED 6336	Reading in the Content Area	
LAE 5426	Multicultural Perspectives in Teaching Language and Literature for Young Adolescents	

Other Program**Education Minor**

Students with arts and sciences majors in the following areas, Art, English, Math, Modern Languages, Music, Sciences, and Social Studies can also complete a 18-21 credit minor in education or an alternative certification program that follows the curriculum below:

Education Core: (15 credits)

EDF 4604	Cultural and Social Foundations of Education	3
EDP 3004/5053	Educational Psychology	3
EDG 3321/5414	Instructional Decision Making	3
ESE 4343C/5344	Secondary Classroom Management	3
RED 5147	Developmental Reading	3

Special Methods:**Subject Area Specific (3-6 credits)****English 6-12/TESOL**

LAE 4335/5336C	Special Teaching Lab: English	3
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Mathematics

MAE 4330	Teaching and Learning Secondary Mathematics	3
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Physics/Chemistry/Biology

SCE 4330	Secondary Science Teaching Methods	3
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Social Studies

SSE 4384	Special Teaching Lab: Social Studies	3
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French/Spanish

FLE 4314/5142	Methods of Teaching Modern Languages in Elementary School	3
FLE 4375/5371	Methods of Teaching Modern Languages at the Secondary Level	3

Art Education

ARE 4316	Special Teaching Lab: Art K-5	3
ARE 4341	Special Teaching Lab: Art 6-12	3

Music Education

MUE 3340	Elementary Music Methods	3
MUE 4341	Secondary Music Methods	3