**mathematics EDUCATION (6-12)**

**Master of Arts in Teaching (M.A.T.) Degree**

**DEGREE INFORMATION**

**Priority Admission Application Deadlines**

**Fall:** June 1

**Spring:** October 15

**Summer:** February 15

International applicant deadlines:

<http://www.grad.usf.edu/majors>

**Minimum Total Hours:** 40

**Level:** Masters

**CIP Code:** 13.1311

**Dept. Code:** EDI

**Major/College Codes:** TSM ED

**Approved** 2005

**CONTACT INFORMATION**

**College:** Education

**Department:** Teaching and Learning

**Contact Information:** [www.grad.usf.edu](http://www.grad.usf.edu/)

**MAJOR INFORMATION**

The MAT in Mathematics Education (6-12) is designed for individuals seeking initial certification to teach High School or Middle School mathematics (grades 6-12) while working towards a Master’s degree. It is planned for graduates of B.A. Liberal Arts Mathematics programs or for graduates of other programs who have completed at least 30 credit hours of mathematics courses that include 6 hours of calculus, 3 hours of linear or abstract algebra, 3 hours of number theory. . Please be advised that program and/or course requirements are subject to change per state legislative mandates, Florida Department of Education program approval standards and accreditation criteria.

**Accreditation:** Accredited by the Florida Department of Education, and the National Council for the Accreditation of Teacher Education.

**ADMISSION INFORMATION**

Must meet University requirements (see Graduate Admissions) as well as requirements for admission to the major, listed below.

* A bachelor’s degree or equivalent from a regionally accredited university An earned minimum grade point average of 3.0 on a 4.0 scale average or better in all work attempted while registered as an upper division student (usually the last two years of undergraduate coursework)
* Meet one of the following criteria:
	1. Have completed 21 credit hours in mathematics at or above the level of college algebra and a passing score on the Florida Subject Area Exam in Mathematics 6-12 (FTCE)

*OR*

* 1. have completed at least 30 credit hours in mathematics at or above the level of College Algebra
		+ Passed the Florida General Knowledge Test (GKT). For the graduate level teacher preparation programs, GRE scores of 150 verbal and 156 quantitative or higher, taken within the last five years may be accepted in place of GKT, for admission to the program.

For admission to a Master of Arts in Teaching degree program, the student must demonstrate mastery of general knowledge by one of the following:

\* Passing the General Knowledge Test, a portion of the Florida Teacher Certification Exam (link to <http://www.fldoe.org/accountability/assessments/postsecondary-assessment/ftce>)

Or

\* Effective for tests administered on or after July 1, 2015, achievement of passing scores, as identified in Rule 6A-4.0021(12), F.A.C., on test sections of the GRE® revised General Test GRE Analytical Writing combined score of 4 out of 6 acceptable for GK Essay GRE Quantitative Reasoning scaled score of 147 acceptable for GK Mathematics GRE Verbal Reasoning scaled score of 151 acceptable for both GK English Language Skills and GK Reading

During the 2014 Legislative Session, the passage of House Bill 433 amended s. 1012.56, FS, to eliminate the obsolete option of achieving a passing score on the CLAST earned prior to July 1, 2002, to satisfy the general knowledge requirement.

**International Students**

All applicants whose native language is other than English or who have earned a degree from an institution outside the United States must meet the University requirements relative to international graduate admission, (e.g. TOEFL scores, etc.). In addition to these university requirements, applicants to the College of Education must provide the following:

* A social security number in degree programs requiring practica or internships;
* Other information as required by the major of interest, (e.g. Graduate Record Exam scores, etc.).

**CURRICULUM REQUIREMENTS**

**Total Minimum Hours 40 hours**

**Pre-requisites**

Students without appropriate ESOL training and/or a measurement course must complete graduate course(s) to satisfy those two program prerequisites. Students admitted without a 30-hour mathematics background will have to take undergraduate course work to insure that their background reflects at least:

* 6 hours of Calculus
* 3 hours of linear algebra or abstract algebra
* 3 hours of Number Theory or Discrete Mathematics
* 3 hours of geometry
* 3 hours of History of Mathematics
* 3 hours of Probability or Statistics

Any pre-requisite undergraduate credit hours taken will not apply to the minimum curriculum requirements for the Major.

**Core Requirements**

**Required Courses 12 hours**

EDF 6432 Foundations of Measurement 3

ESE 5344 Classroom Management for a Diverse School and Society 3

ESE 5342 Teaching the Adolescent Learner 3

TSL 5325 ESOL Strategies for Content for Content Area Teachers 3

**Current Trends in Teaching Concentration** **3 hours**

MAE 6136 Current Trends Secondary Math Education 3

**Concentration 15 minimum**

Students may waive up to 6 hours of course credit based upon approval of their academic advisor and the department.

MAE 6643 Communication Skills in Mathematics 3

MAE 6337 Topics in Teaching Algebra 3

MAE 6338 Topics in Teaching Geometry 3

MAE 6317 Topics in Teaching Probability and Statistics 3

MAE 6336 Topics in Teaching Calculus 3

MAE 6370 Mathematics for High School Teachers 3

MAE 6362 Senior High Mathematics Methods 3

**Practicum, Internship, Field Work, etc. 10 hours**

MAE 6945 Practicum in Mathematics Education 3

MAE 6947 Internship in Secondary Education for Mathematics 6

MAE 6899 Internship Seminar in Mathematics Education 1

**Testing**

All portions of the General Knowledge Test (GK) of the Florida Teacher Certification Exam (FTCE) must be passed prior to internship. Both the Mathematics 6 – 12 test and the Professional Education test of the FCTE must be passed prior to completion of internship

**Comprehensive Examination:**

Passing a comprehensive exam is required prior to graduation. Students should contact their academic advisor to make arrangements to take the comprehensive exam in last fall or spring semester it can only be taken while enrolled in at least 2 credits. Making these arrangements two semesters prior to graduation is advised.

**COURSES**

See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/sab/sabs.cfm)