

Overview of Master of Arts in Teaching Science

Admission Requirements for MAT in Science Education

1. A Bachelor's degree or equivalent from a regionally accredited university
2. Graduate School Application
3. Transcripts
4. Applicants must meet the following criteria:
 - a. B (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student (usually last two years of coursework) working for a baccalaureate degree, or
 - b. B (3.0 on a 4.0 scale) average or better in 3 courses required in the degree program. Students seeking admission by completing three courses with a B or better in each course while a non-degree seeking student should take:
 - EDF 4430 Foundations of Measurement, and
 - ESE 5344 (Classroom Management for the Diverse School & Society) or
 - ESE 5323 (Teaching Strategies and the Adolescent Learner), and
 - SCE 5334 (Analysis of Methods for Middle Grades Science Education) or
 - SCE 4330 (Analysis of Methods for Secondary Science Education)
5. CLAST, GTE, BRE or Praxis is required. Students must have:
 - a. passed all section of the CLAST or BKT, or
 - b. passed Praxis I, or
 - c. taken the GRE General Test within the last five years and achieved a verbal plus quantitative GRE General Test score of 1000.
6. Coursework and Science Content Hours
 - a. A bachelor's degree in a science field (Biology, Chemistry, Physics, Earth / Space Science) or
 - b. Coursework in Science acceptable to the program faculty. Students should provide a typed listing of science courses (and date taken) as part of their application that they propose as meeting this requirement. Students who do not meet the requirement can enroll in undergraduate courses prior to application. These courses will not be counted toward the degree and can be taken at any accredited university or community college. A minimum of 18 science content hours is required to teach Middle School or 24 hours in major science content area of concentration (plus 6 hours in minor science content area) to teach Secondary School.

Note: All students must pass the Florida Teacher Certification Exam prior to internship, which draws heavily from the courses recommended below.

Overview of Curricular Requirements for MAT in Science Education

The following table (1.2) specifies the courses in the College of Education that are part of the Science Education *Master of Arts in Teaching* program.

Table 1.2 MAT Curriculum

Course Number	Course Title	Number of Credit Hours	Department Responsible for Offering the Course	Required or Elective
EDF 4430 (or Assessment Strategies Course Approved by Program Coordinator)	Measurement for Teachers	3	Measurement	Required
ESE 5342	Teaching the Adolescent Learner	3	Secondary Education	Required
ESE 5344	Classroom Management for a Diverse School and Society	3	Secondary Education	Required
FLE 5365	ESOL Education in Content Areas	3	Secondary Education	Required
SCE 5364	Reading and Communication in Science Education	3	Secondary Education	Required
SCE 4320	Analysis of Methods for Middle Grades Science Education	3	Secondary Education	Required
SCE 4330	Analysis of Methods for Secondary Science Education	3	Secondary Education	Required
CHM 6781	Physical Sciences for Teachers: Major Concepts & Common Misconceptions	3	Secondary Education	Required
ISC 6782	Life Sciences for Teachers: Major Concepts & Common Misconceptions	3	Secondary Education	Required
SCE 6938	Topics in Science Education: Field Practicum	3	Secondary Education	Required
SCE 6634	Current Trends in Secondary Science Education	3	Secondary Education	Required
SCE 6947	Internship: Science Education*	6	Secondary Education	Required
Total Hours		39		

***Note:** MAT students who are full-time teachers may apply for an In-service Internship and enroll in SCE 6947 during their final fall or spring semester of coursework to meet the internship requirement. Students planning an In-Service Internship must complete both the In-Service Application (contact the Science Education Program Coordinator) and the Pre-Service Internship application.

Table 1.3 Exit Criteria

Category	Criterion
GPA overall	Minimum of 3.0
GPA specialization (SCE Courses)	Minimum of 3.0
Comprehensive Exam in Science Education	Successful completion
FTCE	Passing scores
Internship	Successful completion