SECONDARY EDUCATION, MASTER OF EDUCATION

This program leads to the T-5 certification in mathematics education (6-12), science education (6-12), Science with Initial Certification, and Mathematics with Initial Certification. This program also provides knowledge and skills for teachers to serve in leadership roles in curriculum development, supervision and research in the fields of Secondary Education.

The purpose of the M.Ed. Secondary Education is to promote leadership for all populations. Candidates complete 36 hours of courses designed to augment resourceful and imaginative problem-solving skills for all populations. All classes implement the Department of Teacher Education's conceptual framework: Reflective transformative practitioner, culturally-responsive practitioner, technologically-competent practitioner. Candidates have to be admitted by the Graduate Admissions Office before being admitted into the program.

Objectives of the Program

The basic objective of the Master's of Education program in Secondary Education is to provide teachers with the opportunity to:

1. Compare their teaching practices with current research based practices and make changes where necessary;
2. Extend their knowledge and skills in a chosen area of educational interest;
3. Present intellectually challenging thoughts and practices to students;
4. Integrate new materials and methods of teaching into students' teaching repertoire;
5. Encourage interest in conducting research;
6. Increase competencies in research techniques; and
7. Increase students' ability to recognize relevant research, which they can use to become more effective in their classrooms.

Capstone Research Project

The purpose of the capstone research project is to assess the student's knowledge of educational theory and applied research in a real-world classroom setting. The research project is a culminating assessment of a student's competency and skills as an advanced-level candidate in teacher education.

In partial fulfillment of the Masters in Education, students are required to successfully complete a research project. This research project is completed in the research course, EDUC 5592 Applied Research in Teacher Education. A student must earn a grade of "B" or higher in the course to signify their successful completion of the research project.

Admission to the Program

Admission to the Secondary Education Program requires an undergraduate degree in one of the areas, or the equivalent, from an accredited college, and satisfactory scores on the Graduate Record Examination or Miller Analogies Test. When students lack a sufficient background in Secondary Education, they may be required to take additional undergraduate courses before beginning the M.Ed. program in Secondary Education. Students are also governed by the general admission procedures and requirements for the M.Ed. degree program, and they may matriculate in the Secondary Education program under the same categories of admission.

Area C Grades

Candidates must earn a B or better in all Area C courses (teaching field) to earn course credit for graduation.

Science Education Broadfield Concentration

Code	Title	Semester Hours
AREA A: Nature of the Learner and Behavior (minimum 3 hrs)		**3**
SPED 5501	Exceptional Child [1]	
SPED 5542	Behavior Modification for Special Education Students	
PSYC 5515	Educational Psychology	
AREA B: Programs and Problems of the School (minimum 3 hrs)		**3**
EDUC 5504	History of Education	
EDUC 5509	Philosophy of Education	
EDUC 5540	Curriculum Principles in STEM	
AREA C: Teaching Field [2]		
EDUC 5199	Orientation to Adv Prof Educ [3]	0
Select 18 hours from the Science Education Broadfield Concentration Courses		**18**
EDUC 5570	Strategies of Instruction in Science	
BIOL 5501	Selected Topics in Botany	
BIOL 5502	Selected Topics in Zoology	
BIOL 5504	Ecology	
BIOL 5506	Genetics	
BIOL 5514	Biology Chemistry	
ISCI 5515	Selected Topics in Biology	
or BIOL 5515	Selected Topics in Biology	
BIOL 5519	Plant Biology	
ISCI 5500	Integrated Earth Science	
ISCI 5501	Integrated Found of Phys Scien	
or BIOL 5515	Selected Topics in Biology	
ISCI 5530	Integrated Physical Science I	
ISCI 5531	Integrated Physical Science II	
ISCI 5564	Integrated Science Concepts	
AREA D: Action Research and Statistics (minimum 3 hrs)		**3**
EDUC 5500	Educational Statistics, Research, & Analysis	
EDUC 5502	Action/Classroom Research	
EDUC 5592	Applied Research in Teacher Education	
AREA E: Related Areas (9 hrs)		
SPED 5501	Exceptional Child [1]	3
6 additional hours to be chosen with advisor		6
Total Semester Hours		**36**

Programming, Planning, and Advisement

This program is to be used in conjunction with the guidance from an advisor. Advisors and advanced candidates have a mutual responsibility to ensure advisement occurs and is maintained throughout the program. Both must maintain ongoing contact with each other. A planned program must include the 36 hours of graduate level course work listed

above, with a GPA of 3.0. If an advanced candidate wishes to obtain an additional endorsement, such as reading, this will increase the number of hours and may not be covered by financial aid. This program is designed for advanced-level students who seek State of Georgia T-5 Certification in the identified content area. The credits that constitute this individualized program should be determined by the corresponding program coordinator or advisor and signed by the student before initial registration for this program. The following criteria must be met to be admitted to this program:

1. The student must have a baccalaureate degree from an approved program,
2. a minimum graduate grade point average of 3.0 on a 4.0 scale,
3. full or provisional admission to ASU's graduate school, and
4. meet PSC admission requirements.

All credits for the completion program must be obtained within 6 years of the candidate's date of admission into the program.

[1] If a student is working toward initial certification, SPED 5501 requires a grade of B or better in compliance with House Bill 671 and PSC rules.
[2] Candidates must earn a B or better in all Area C courses (teaching field) to earn course credit for graduation.
[3] Required course

Secondary Mathematics Broadfield Concentration

Code	Title	Semester Hours
AREA A: Nature of the Learner and Behavior (minimum 3 hrs)		**3**
SPED 5501	Exceptional Child [1]	
SPED 5542	Behavior Modification for Special Education Students	
PSYC 5515	Educational Psychology	
AREA B: Programs and Problems of the School (minimum 3 hrs)		**3**
EDUC 5504	History of Education	
EDUC 5509	Philosophy of Education	
EDUC 5540	Curriculum Principles in STEM	
AREA C: Teaching Field [2]		
EDUC 5199	Orientation to Adv Prof Educ [3]	0
MATH 5112	Linear Algebra	3
MATH 5113	Modern Algebra I & II	3
MATH 5211	Fundamental Concept of Analysis I	3
MATH 5214	Differential Equations	3
MATH 5311	Geometry of Teachers***	3
EDUC 5531	Mathematics Concepts in Secondary Schools	3
AREA D: Action Research and Statistics (minimum 3 hrs)		**3**
EDUC 5500	Educational Statistics, Research, & Analysis	
EDUC 5502	Action/Classroom Research	
EDUC 5592	Applied Research in Teacher Education	
AREA E: Related Areas (9 hrs)		
MATH 5202	Technology -Oriented Mathematics	3
MATH 5412	Methods of Statistical Analysis	3
MATH 5511	History of Mathematics	3
Total Semester Hours		**36**

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[2] Candidates must earn a B or better in all Area C courses (teaching field) to earn course credit for graduation.
[3] Required course

Science with Initial Certification Concentration

Code	Title	Semester Hours
Area A: Nature of the Learner and Behavior Problems (3 hrs)		
SPED 5501	Exceptional Child [1]	3
Area B: Programs and Problems of the School (3 hrs)		
EDUC 5509	Philosophy of Education	3
Area C: Teaching Field (18 hrs) [2]		
EDUC 5199	Orientation to Adv Prof Educ [3]	0
EDUC 5570	Strategies of Instruction in Science	3
ISCI 5564	Integrated Science Concepts	3
EDUC 5443	Educational Assessment in STEM	3
EDUC 5540	Curriculum Principles in STEM	3
EDUC 5550	Foundation Principles in Education, Growth Development	3
EDUC 5000	Professional Development for Accomplished Educators	3
Area D: Educational Research (3 hrs)		
EDUC 5592	Applied Research in Teacher Education	3
Area E: Field and Clinical (9 hrs)		
EDUC 5590	Practicum I: Internship K-12	3
EDUC 5591	Practicum II: Internship	3

EDUC 5441	Culturally Responsive Teaching	3
Total Semester Hours		**36**

Programming, Planning, and Advisement

This program is to be used in conjunction with the guidance from an advisor. Advisors and advanced candidates have a mutual responsibility to ensure advisement occurs and is maintained throughout the program. Both must maintain ongoing contact with each other. A planned program must include the 36 hours of graduate level course work listed above, with a GPA of 3.0. If an advanced candidate wishes to obtain an additional endorsement, such as reading, this will increase the number of hours and may not be covered by financial aid. This program is designed for advanced-level students who seek State of Georgia T-5 Certification in the identified content area. The credits that constitute this individualized program should be determined by the corresponding program coordinator or advisor and signed by the student before initial registration for this program. The following criteria must be met to be admitted to this program:

1. The student must have a baccalaureate degree from an approved program,
2. a minimum graduate grade point average of 3.0 on a 4.0 scale,
3. full or provisional admission to ASU's graduate school, and
4. meet PSC admission requirements.

All credits for the completion program must be obtained within 6 years of the candidate's date of admission into the program.

[1] If a student is working toward initial certification, SPED 5501 requires a grade of B or better in compliance with House Bill 671 and PSC rules.
[2] Candidates must earn a B or better in all Area C courses (teaching field) to earn course credit for graduation
[3] Required course

Mathematics with Initial Certification Concentration

Code	Title	Semester Hours
Area A: Nature of the Learner and Behavior Problems (3 hrs)		
SPED 5501	Exceptional Child [1]	3
Area B: Programs and Problems of the School (3 hrs)		
EDUC 5509	Philosophy of Education	3
Area C: Teaching Field (18 hrs) [2]		
EDUC 5199	Orientation to Adv Prof Educ [3]	0
EDUC 5531	Mathematics Concepts in Secondary Schools	3
MATH 5670	Special Topics in Mathematical Sciences	3
EDUC 5443	Educational Assessment in STEM	3
EDUC 5540	Curriculum Principles in STEM	3
EDUC 5550	Foundation Principles in Education, Growth Development	3
EDUC 5000	Professional Development for Accomplished Educators	3
Area D: Educational Research and Statistics (3 hrs)		
EDUC 5592	Applied Research in Teacher Education	3
Area E: Field and Clinical (9 hrs)		
EDUC 5590	Practicum I: Internship K-12	3
EDUC 5591	Practicum II: Internship	3
EDUC 5441	Culturally Responsive Teaching	3
Total Semester Hours		**36**

Programming, Planning, and Advisement

This program is to be used in conjunction with the guidance from an advisor. Advisors and advanced candidates have a mutual responsibility to ensure advisement occurs and is maintained throughout the program. Both must maintain ongoing contact with each other. A planned program must include the 36 hours of graduate level course work listed above, with a GPA of 3.0. If an advanced candidate wishes to obtain an additional endorsement, such as reading, this will increase the number of hours and may not be covered by financial aid. This program is designed for advanced-level students who seek State of Georgia T-5 Certification in the identified content area. The credits that constitute this individualized program should be determined by the corresponding program coordinator or advisor and signed by the student before initial registration for this program. The following criteria must be met to be admitted to this program:

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[2] Candidates must earn a B or better in all Area C courses (teaching field) to earn course credit for graduation
[3] Required course