

Mathematics Education — MEd, EdS, PhD

Mathematics Education — MEd (<https://education.auburn.edu/curriculum-and-teaching/academic-programs/mathematics-education/med-mathematics-education.php>), **EdS** (<https://education.auburn.edu/curriculum-and-teaching/academic-programs/mathematics-education/eds-mathematics-education.php>), **PhD** (<https://education.auburn.edu/curriculum-and-teaching/academic-programs/mathematics-education/phd-mathematics-education.php>)

Mathematics Education — MEd (Alternative Certification)

Code	Title	Hours
Alternative Class A Education Program Checklist		
Teaching Field: 13 hours		
At least 1/3 of the program shall be in teaching field courses.		
MATH 6840	Number Systems and Algebra for Teachers	3
MATH 6850	Functions and Mathematical Modeling for Teachers	3
MATH 6860	Geometry for Teachers	3
MATH 7970	Special Topics (Seminar on History of Math)	1
STAT 6830	Statistics and Probability for Teachers	3
Professional Studies: 25 hours		
CTSE 6040	Technology and Applications in Secondary Mathematics Education	4
CTMD 6010	Teaching Mathematics: Middle School	4
CTSE 6030	Teaching Mathematics: High School	4
RSED 6000	Advanced Survey of Exceptionality ¹	3
or CTRD 6000	Language and Literacy in the Content Areas	
CTSE 7920	Clinical Residency ²	9
CTSE 6230	Managing Middle and High School Classroom (Math Education) ²	1
Total Hours		38

¹ RSED 6000 must be completed if a survey of special education course was not completed prior to unconditional admission. If a survey of special education course was completed prior to unconditional admission, the state diversity course requirement is fulfilled with CTRD 6000 Language and Literacy and the 3-hour course requirement for RSED 6000 will be waived resulting in 25 hours in Professional Studies and 40 total program hours.

² Clearance for Clinical Residency includes completion of all other coursework. Exceptions require approval using the Student Petition Form.
In addition to the Graduate School requirement of a cumulative 3.0 GPA on all AU courses carrying graduate credit, a minimum cumulative GPA of 3.25 is required on all courses used to meet program requirements.
Coursework used to meet admission requirements cannot be used again to meet Alternative Class A program requirements.
All substitutions for required courses must be approved using the Course Substitution Form, including transfer work.
Undergraduate courses may be required by your advisory committee for your plan of study. This coursework is in addition to the total graduate program hours noted above and must be completed prior to Clinical Residency.

Mathematics Education — MEd (Certification)

Code	Title	Hours
Class A Program Checklist for Teaching Field		
Teaching Field: 12 hours		
At least 1/3 of the program shall be in teaching field courses.		
Select 12 hours of advisor-approved 6000-7000 level courses in Mathematics		12
Special Education/Diversity Course: 3 hours		

RSED 6000 Advanced Survey of Exceptionality OR CTSE 7560 Equity Issues in Math OR other state-approved diversity course ¹ 3

Additional Courses: 15 hours **15**

Required: 7-9 hours

CTSE 7520 Curriculum and Teaching in Area of Specialization

CTSE 7530 Organization of Program in Area of Specialization

or CTSE 7540 Evaluation of Program in Area of Specialization

CTSE 7910 Practicum in Area of Specialization ²

Select the remaining 6-8 hours from the following:

CTSE 6040 Technology and Applications in Secondary Mathematics Education ³

CTSE 7510 Research Studies in Area of Specialization

CTSE 7900 Directed Studies

CTSE 7970 Special Topics

CTSE 7990 Research and Thesis

Other advisor approved courses 6000 level and above ⁴

Total Hours **30**

¹ RSED 6000 Advanced Survey of Exceptionality must be completed if survey of special education course was not completed for prior level certification. If a survey of special education course was completed for prior level certification, the state diversity course requirement is fulfilled with CTSE 7560 Equity Issues in Math or a state approved diversity course. State-approved diversity courses for Auburn University are posted on the ALSDE website.

² 1 hour is required if teaching in area of certification at an approved school site or 3 hours required if not teaching in an area of certification.

³ Required if CTSE 5040 not completed at AU.

⁴ Supporting courses must be applicable to the area of certification (e.g., research, assessment/evaluation, classroom management, pedagogy, human behavior/development, foundations, technology, teaching field).

In addition to the Graduate School requirement of a cumulative 3.0 GPA on all AU courses carrying graduate credit, a minimum cumulative GPA of 3.25 is required on all courses used to meet program requirements.

Coursework used to meet Class B certification requirements may not be used to meet requirements for Class A certification.

All substitutions for required courses must be approved using the Course Substitution Form, including transfer work.

Mathematics Education — EdS (Certification)

Code	Title	Hours
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Class AA Program Checklist for Teaching Field

Teaching Field: 12 hours

At least 1/3 of the program shall be in teaching field courses.

Select 12 hours of advisor-approved 6000-7000 level courses in Mathematics. 12

Survey of Special Education/Diversity Course: 3 hours 3

RSED 6000 Advanced Survey of Exceptionality OR CTSE 7560 Equity Issues in Math OR other state-approved diversity course ¹

Additional Courses: 15 hours **15**

Required: 1-3 hours

CTSE 8980 Field Project ²

Select the remaining 12-14 hours from the following:

CTSE 7510 Research Studies in Area of Specialization

CTSE 7520 Curriculum and Teaching in Area of Specialization ³

CTSE 7530 Organization of Program in Area of Specialization ⁴

CTSE 7540 Evaluation of Program in Area of Specialization ⁵

CTSE 7560 Equity Issues in Mathematics Education ^{1,3}

CTSE 7900 Directed Studies

CTSE 7910	Practicum in Area of Specialization
CTSE 7970	Special Topics
Other advisor-approved supporting courses 6000 level and above ⁶	

Total Hours **30**

- ¹ RSED 6000 Advanced Survey of Exceptionality must be used to fulfill requirement if survey of special education course was not completed for prior level certification. It may not be used to fulfill the requirement if a survey of special education course was completed for prior level certification. State-approved diversity courses for Auburn University are posted on the ALSDE website.
- ² To ensure a field experience, a minimum of 1 hour of CTSE 8980 is required for those seeking Class AA certification only; 3 hours is required for those seeking the EdS degree.
- ³ Required if not previously completed at Auburn University.
- ⁴ Required if graduate level course in organization in math education not previously completed.
- ⁵ Required if graduate level course in evaluation in math education not previously completed.
- ⁶ Supporting courses must be applicable to the area of certification (e.g., research, assessment/evaluation, classroom management, pedagogy, human behavior/development, foundations, technology, teaching field).
- ⁷ In addition to the Graduate School requirement of a cumulative 3.0 GPA on all AU courses carrying graduate credit, a minimum cumulative GPA of 3.50 is required on all courses used to meet program requirements.
- ⁸ Coursework used to meet Class A certification requirements may not be used to meet requirements for Class AA certification.
- ⁹ All substitutions for required courses must be approved using the Course Substitution Form, including transfer work.

Mathematics Education — PhD

Code	Title	Hours
Mathematics Education - PhD		
CTSE 7510	Research Studies in Area of Specialization	3
CTSE 7520	Curriculum and Teaching in Area of Specialization	3
CTSE 7530	Organization of Program in Area of Specialization	3
CTSE 7540	Evaluation of Program in Area of Specialization	3
CTSE 8990	Research and Dissertation	10
ERMA 7200	Basic Methods in Education Research	3
ERMA 7210	Theory and Methodology of Qualitative Research	3
Select 57 Hours in @ 6000-8999		57
Total Hours		85