

Science Education: General Science, Biology, Chemistry, or Physics — MEd/MS, EdS, PhD

Science Education: General Science, Biology, Chemistry, or Physics — MEd/MS (<https://education.auburn.edu/curriculum-and-teaching/academic-programs/science-education/ms-med-science-education.php>), EdS (<https://education.auburn.edu/curriculum-and-teaching/academic-programs/science-education/eds-science-education.php>), PhD (<https://education.auburn.edu/curriculum-and-teaching/academic-programs/science-education/phd-science-education.php>)

General Science Education — MEd (Alternative Certification)

Code	Title	Hours
Alternative Class A Education Program Checklist		
Teaching Field: 12 hours		
At least 1/3 of the program shall be in teaching field courses.		
GEOL 6400	Principles of Earth Science	3
BIOL 6090	Conservation Biology	3
Select 6 hours of advisor-approved 6000-7000 level courses in Science ¹		6
Professional Studies: 25 hours		
CTSE 7510 or CTSE 7530	Research Studies in Area of Specialization Organization of Program in Area of Specialization	3
CTSE 6100	Curriculum and Teaching II: Science	4
CTRD 6000	Language and Literacy in the Content Areas ²	3
CTSE 7540	Evaluation of Program in Area of Specialization	3
RSED 6000	Advanced Survey of Exceptionality ²	3
CTSE 6240	Clinical Residency Seminar in Science Teaching ³	1
CTSE 7920	Clinical Residency ³	8
Total Hours		37

¹ General Science programs shall require at least one course in two areas within the broader field (e.g., biology, chemistry, physics, and geology).

² 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 22 hours in Professional Studies and 34 total program hours.

³ 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.

General Science 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.

GEOL 6400	Principles of Earth Science	3
BIOL 6090	Conservation Biology	3
Select 6 hours of advisor-approved 6000-7000 level courses in Science. ¹		6
Survey of Special Education/Diversity Course: 3 hours		
RSED 6000 Advanced Survey of Exceptionality OR state-approved diversity course ²		3
Additional Courses: 15 hours		15
Required: 6-8 hours		
CTSE 6000	Technology in Science Education	
CTSE 7540	Evaluation of Program in Area of Specialization	
CTSE 7910	Practicum in Area of Specialization ³	
Select the remaining 7-9 hours from the following:		
CTSE 7510	Research Studies in Area of Specialization	
CTSE 7520	Curriculum and Teaching in Area of Specialization	
CTSE 7530	Organization of Program in Area of Specialization	
CTSE 7900	Directed Studies	
CTSE 7970	Special Topics	
CTSE 7990	Research and Thesis	
Other advisor-approved supporting courses 6000 level and above ⁴		
Total Hours		30

¹ General Science programs shall require at least one course in two areas within the broader field (e.g., biology, chemistry, physics, geology).

² 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.

³ 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.

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.

General Science Education — MS (Non-certification)

Code	Title	Hours
General Science Education - MS (Non-certification)		
CTSE 7000	Orientation to Teaching and Learning	1
CTSE 7800	Capstone in Teaching and Learning	2
Advisor-Approved CTSE (Science Education) courses: 9 hours		9
Advisor-Approved Electives: 18 hours		18
Total Hours		30

General Science Education — EdS (Certification)

Code	Title	Hours
Class AA Program Checklist for Teaching Field		
Teaching Field: 12 hours		

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

BIOL 6090	Conservation Biology	3
GEOL 6400	Principles of Earth Science	3
Select 6 hours of advisor-approved 6000-7000 level courses in Science. ¹		6
Survey of Special Education/Diversity Course: 3 hours		3
RSED 6000 Advanced Survey of Exceptionality OR state-approved diversity course ²		
Additional Courses: 15 hours		
Select 15 hours from the following:		15
CTSE 6000	Technology in Science Education	
CTSE 7510	Research Studies in Area of Specialization ³	
CTSE 7520	Curriculum and Teaching in Area of Specialization	
CTSE 7530	Organization of Program in Area of Specialization	
CTSE 7540	Evaluation of Program in Area of Specialization ³	
CTSE 7900	Directed Studies	
CTSE 7910	Practicum in Area of Specialization ⁴	
CTSE 7970	Special Topics	
CTSE 8980	Field Project ⁴	
Other advisor-approved courses 6000 level and above in Science Education		
Other advisor-approved supporting courses 6000 level and above ⁵		

Total Hours **30**

- ¹ General Science programs shall require at least one course in two areas within the broader field (e.g., biology, chemistry, physics, geology).
- ² 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.
- ³ CTSE 7510 required if a graduate level course in research studies in Science Education not previously completed;
CTSE 7540 required if a graduate level course in evaluation in Science Education not previously completed.
- ⁴ To ensure a field experience, CTSE 7910 is required for those seeking Class AA certification only; this requirement is in addition to any practicum credit counted for Class A certification. CTSE 8980 is required for those seeking the EdS degree.
- ⁵ Supporting courses may not exceed 6 hours and 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 3.50 is required on all courses used to meet program requirements.
Coursework used to meet Class A certification requirements may not be used to meet requirements for Class AA certification.
All substitutions for required courses must be approved using the Course Substitution Form, including transfer work.

General Science Education — PhD

Code	Title	Hours
General Science Education - PhD		
CTSE 8990	Research and Dissertation	10
ERMA 7200	Basic Methods in Education Research	3
ERMA 7210	Theory and Methodology of Qualitative Research	3
ERMA 7220	Applied Qualitative Research	3
ERMA 7300	Design and Analysis in Education I	3
ERMA 7310	Design and Analysis in Education II	3
ERMA 8320	Design and Analysis in Education III	3
Select 60 Hours in @ 6000-8999		60
Total Hours		88

Biology Education — MEd (Alternative Certification)

Code	Title	Hours
Alternative Class A Education Program Checklist		
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 Biology		12
Professional Studies: 25 hours		
CTSE 7510 or CTSE 7530	Research Studies in Area of Specialization Organization of Program in Area of Specialization	3
CTSE 6100	Curriculum and Teaching II: Science	4
CTSE 7540	Evaluation of Program in Area of Specialization	3
CTRD 6000	Language and Literacy in the Content Areas ¹	3
RSED 6000	Advanced Survey of Exceptionality ¹	3
CTSE 6240	Clinical Residency Seminar in Science Teaching ²	1
CTSE 7920	Clinical Residency ²	8
Total Hours		37

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 22 hours in Professional Studies and 34 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.

Biology 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 Biology		12
Survey of Special Education/Diversity Course: 3 hours		
RSED 6000 Advanced Survey of Exceptionality OR state-approved diversity course ¹		3
Additional Courses: 15 hours		
Required: 6-8 hours		
CTSE 6000	Technology in Science Education	
CTSE 7540	Evaluation of Program in Area of Specialization	
CTSE 7910	Practicum in Area of Specialization ²	
Select the remaining 7-9 hours from the following:		
CTSE 7510	Research Studies in Area of Specialization	
CTSE 7520	Curriculum and Teaching in Area of Specialization	
CTSE 7530	Organization of Program in Area of Specialization	
CTSE 7900	Directed Studies	

CTSE 7970	Special Topics	
CTSE 7990	Research and Thesis	
Other advisor-approved supporting courses 6000 level and above ³		
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 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 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.

Biology Education — EdS (Certification)

Code	Title	Hours
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 Biology		12
Survey of Special Education/Diversity Course: 3 hours ¹		3
RSED 6000 Advanced Survey of Exceptionality OR state-approved diversity course ¹		
Additional Courses: 15 hours		
Select 15 hours from the following:		15
CTSE 6000	Technology in Science Education	
CTSE 7510	Research Studies in Area of Specialization ²	
CTSE 7520	Curriculum and Teaching in Area of Specialization	
CTSE 7530	Organization of Program in Area of Specialization	
CTSE 7540	Evaluation of Program in Area of Specialization ²	
CTSE 7900	Directed Studies	
CTSE 7910	Practicum in Area of Specialization ³	
CTSE 7970	Special Topics	
CTSE 8980	Field Project ³	
Other advisor approved courses in Science Education		
Other advisor-approved supporting courses 6000 level and above ⁴		
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 CTSE 7510 required if a graduate level course in Research Studies in Science Education not previously completed;
CTSE 7540 required if a graduate level course in evaluation in Science Education not previously completed.
- ³ To ensure a field experience, CTSE 7910 is required for those seeking Class AA certification only; this requirement is in addition to any practicum credit counted for Class A certification. CTSE 8980 is required for those seeking the EdS degree.
- ⁴ Supporting courses may not exceed 6 hours and 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 3.50 is required on all courses used to meet program requirements.

Coursework used to meet Class A certification requirements may not be used to meet requirements for Class AA certification. All substitutions for required courses must be approved using the Course Substitution Form, including transfer work.

Biology Education — PhD

Code	Title	Hours
Biology Education - PhD		
CTSE 8990	Research and Dissertation	10
ERMA 7200	Basic Methods in Education Research	3
ERMA 7210	Theory and Methodology of Qualitative Research	3
ERMA 7220	Applied Qualitative Research	3
ERMA 7300	Design and Analysis in Education I	3
ERMA 7310	Design and Analysis in Education II	3
ERMA 8320	Design and Analysis in Education III	3
Select 60 Hours in @ 6000-8999		60
Total Hours		88

Chemistry Education — MEd (Alternative Certification)

Code	Title	Hours
Alternative Class A Education Program Checklist		
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 Chemistry		12
Professional Studies: 25 hours		
CTSE 7510 or CTSE 7530	Research Studies in Area of Specialization Organization of Program in Area of Specialization	3
CTSE 6100	Curriculum and Teaching II: Science	4
CTSE 7540	Evaluation of Program in Area of Specialization	3
CTRD 6000	Language and Literacy in the Content Areas ¹	3
RSED 6000	Advanced Survey of Exceptionality ¹	3
CTSE 6240	Clinical Residency Seminar in Science Teaching ²	1
CTSE 7920	Clinical Residency ²	8
Total Hours		37

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 22 hours in Professional Studies and 34 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.

Chemistry 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 Chemistry		12
Survey of Special Education/Diversity Course		3
RSED 6000 Advanced Survey of Exceptionality OR state-approved diversity course ¹		
Additional Courses: 15 hours		15
Required: 6-8 hours		
CTSE 6000	Technology in Science Education	
CTSE 7540	Evaluation of Program in Area of Specialization	
CTSE 7910	Practicum in Area of Specialization ²	
Select the remaining 7-9 hours from the following:		
CTSE 7510	Research Studies in Area of Specialization	
CTSE 7520	Curriculum and Teaching in Area of Specialization	
CTSE 7530	Organization of Program in Area of Specialization	
CTSE 7900	Directed Studies	
CTSE 7970	Special Topics	
CTSE 7990	Research and Thesis	
Other advisor-approved supporting courses 6000 level and above ³		
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 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 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.

Chemistry Education — EdS (Certification)

Code	Title	Hours
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 Chemistry		12
Survey of Special Education/Diversity Course: 3 hours		3
RSED 6000 Advanced Survey of Exceptionality OR state-approved diversity course ¹		
Additional Courses: 15 hours		15
Select 15 hours from the following:		
CTSE 6000	Technology in Science Education	
CTSE 7510	Research Studies in Area of Specialization ²	
CTSE 7520	Curriculum and Teaching in Area of Specialization	

CTSE 7530	Organization of Program in Area of Specialization	
CTSE 7540	Evaluation of Program in Area of Specialization ²	
CTSE 7900	Directed Studies	
CTSE 7910	Practicum in Area of Specialization ³	
CTSE 7970	Special Topics	
CTSE 8980	Field Project ³	
Other advisor approved courses in Science Education		
Other advisor-approved supporting courses 6000 level and above ⁴		
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 CTSE 7510 required if a graduate level course in research studies in Science Education not previously completed;
CTSE 7540 required if a graduate level course in evaluation in Science Education not previously completed.

³ To ensure a field experience, CTSE 7910 is required for those seeking Class AA certification only; this requirement is in addition to any practicum credit counted for Class A certification. CTSE 8980 is required for those seeking the EdS degree.

⁴ Supporting courses may not exceed 6 hours and 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 3.50 is required on all courses used to meet program requirements.

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

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

Chemistry Education — PhD

Code	Title	Hours
Chemistry Education - PhD		
CTSE 8990	Research and Dissertation	10
ERMA 7200	Basic Methods in Education Research	3
ERMA 7210	Theory and Methodology of Qualitative Research	3
ERMA 7220	Applied Qualitative Research	3
ERMA 7300	Design and Analysis in Education I	3
ERMA 7310	Design and Analysis in Education II	3
ERMA 8320	Design and Analysis in Education III	3
Select 60 Hours in @ 6000-8999		60
Total Hours		88

Physics Education — MEd (Alternative Certification)

Code	Title	Hours
Alternative Class A Education Program Checklist		
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 Physics		12
Professional Studies: 25 hours		
CTSE 7510	Research Studies in Area of Specialization	3
or CTSE 7530	Organization of Program in Area of Specialization	
CTSE 6100	Curriculum and Teaching II: Science	4
CTRD 6000	Language and Literacy in the Content Areas ¹	3

CTSE 7540	Evaluation of Program in Area of Specialization	3
RSED 6000	Advanced Survey of Exceptionality ¹	3
CTSE 6240	Clinical Residency Seminar in Science Teaching ²	1
CTSE 7920	Clinical Residency ²	8
Total Hours		37

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 22 hours in Professional Studies and 34 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.

Physics 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 Physics		12
Survey of Special Education/Diversity Course: 3 hours		
RSED 6000	Advanced Survey of Exceptionality OR state-approved diversity course ¹	3
Additional Courses: 15 hours		15
Required: 6-8 hours		
CTSE 6000	Technology in Science Education	
CTSE 7540	Evaluation of Program in Area of Specialization	
CTSE 7910	Practicum in Area of Specialization ²	
Select the remaining 7-9 hours from the following:		
CTSE 7510	Research Studies in Area of Specialization	
CTSE 7520	Curriculum and Teaching in Area of Specialization	
CTSE 7530	Organization of Program in Area of Specialization	
CTSE 7900	Directed Studies	
CTSE 7970	Special Topics	
CTSE 7990	Research and Thesis	
Other advisor-approved supporting courses 6000 level and above ³		
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 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 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.

Physics Education — EdS (Certification)

Code	Title	Hours
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 Physics		12
Survey of Special Education/Diversity Course: 3 hours		
RSED 6000 Advanced Survey of Exceptionality OR state-approved diversity course ¹		3
Additional Courses: 15 hours		
Select 15 hours from the following:		15
CTSE 6000	Technology in Science Education	
CTSE 7510	Research Studies in Area of Specialization ²	
CTSE 7520	Curriculum and Teaching in Area of Specialization	
CTSE 7530	Organization of Program in Area of Specialization	
CTSE 7540	Evaluation of Program in Area of Specialization ²	
CTSE 7900	Directed Studies	
CTSE 7910	Practicum in Area of Specialization ³	
CTSE 7970	Special Topics	
CTSE 8980	Field Project ³	
Other advisor-approved supporting courses 6000 level and above ⁴		
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 CTSE 7510 required if a graduate level course in research studies in Science Education not previously completed; CTSE 7540 required if a graduate level course in evaluation in Science Education not previously completed.

³ To ensure a field experience, CTSE 7910 is required for those seeking Class AA certification only; this requirement is in addition to any practicum credit counted for Class A certification. CTSE 8980 is required for those seeking the EdS degree.

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 3.50 is required on all courses used to meet program requirements.

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

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

Physics Education — PhD

Code	Title	Hours
Physics Education - PhD		
CTSE 8990	Research and Dissertation	10
ERMA 7200	Basic Methods in Education Research	3
ERMA 7210	Theory and Methodology of Qualitative Research	3
ERMA 7220	Applied Qualitative Research	3
ERMA 7300	Design and Analysis in Education I	3
ERMA 7310	Design and Analysis in Education II	3
ERMA 8320	Design and Analysis in Education III	3

Select 60 Hours in @ 6000-8999	60
Total Hours	88