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

Science Education: General Science, Biology, Chemistry, or Physics – MEd/MS (http://www.education.auburn.edu/graduate-degree-cert/science-masters), EdS (http://www.education.auburn.edu/graduate-degree-cert/science-ed-eds), PhD (http://www.education.auburn.edu/graduate-degree-cert/science-ed-phd)

General Science Education - MEd (Alternative Certification)

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 Science ¹

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 6000/6006 Language and Literacy in the Content Areas ²
CTSE 7540/7546 Evaluation of Program in Area of Specialization 3
RSED 6000/6006 Advanced Survey of Exceptionality ²
CTSE 6240/6246 Clinical Residency Seminar in Science Teaching ³
CTSE 7920/7926 Clinical Residency ³

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 6000/6 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 6000/6 Language and Literacy and the 3-hour course requirement for RSED 6000/6 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)

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 Science ¹

Survey of Special Education/Diversity Course: 3 hours
RSED 6000/6006 Advanced Survey of Exceptionality OR state-approved diversity course ²

Additional Courses: 15 hours
CTSE 6000 Technology in Science Education
General Science Education - MS (Non-certification)

General Science Education - MS (Non-certification)
CTSE 7000/7006 Orientation to Teaching and Learning 1
CTSE 7800/7806 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)

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 Science 1
Survey of Special Education/Diversity Course: 3 hours
RSED 6000/6006 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 7540/7546 Evaluation of Program in Area of Specialization 3
CTSE 7900/7906 Directed Studies
CTSE 7910/7916 Practicum in Area of Specialization 4
Other advisor-approved supporting courses 6000 level and above 4
Total Hours 30

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

RSED 6000/6006 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.

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.

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.
CTSE 7970/7976  Special Topics
CTSE 8980/8986  Field Project
Other advisor-approved courses 6000 level and above in Science Education
Other advisor-approved supporting courses 6000 level and above

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 6000/6 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/CTSE 7916 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/CTSE 8986 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

General Science Education - PhD

CTSE 8990/8996  Research and Dissertation 10
ERMA 7200/7206  Basic Methods in Education Research 3
ERMA 7210  Theory and Methodology of Qualitative Research 3
ERMA 7220  Applied Qualitative Research 3
ERMA 7300/7306  Design and Analysis in Education I 3
ERMA 7310/7316  Design and Analysis in Education II 3
ERMA 8320/8326  Design and Analysis in Education III 3
Select 60 Hours in @ 6000-8999 60

Total Hours 88

Biology Education - MEd (Alternative Certification)

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  Research Studies in Area of Specialization 3
or CTSE 7530  Organization of Program in Area of Specialization 3
CTSE 6100  Curriculum and Teaching II: Science 4
CTSE 7540/7546  Evaluation of Program in Area of Specialization 3
CTRD 6000/6006  Language and Literacy in the Content Areas 1 3
RSED 6000/6006  Advanced Survey of Exceptionality 1 3
CTSE 6240/6246  Clinical Residency Seminar in Science Teaching 2 1
CTSE 7920/7926  Clinical Residency 2 8

Total Hours 37
RSED 6000/6 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 6000/6 Language and Literacy and the 3-hour course requirement for RSED 6000/6 will be waived resulting in 22 hours in Professional Studies and 34 total program hours.

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)

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

Survey of Special Education/Diversity Course: 3 hours

RSED 6000/6006 Advanced Survey of Exceptionality OR state-approved diversity course

Additional Courses: 15 hours

Required: 6-8 hours

CTSE 6000 Technology in Science Education
CTSE 7540/7546 Evaluation of Program in Area of Specialization
CTSE 7910/7916 Practicum in Area of Specialization

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 7900/7906 Directed Studies
CTSE 7970/7976 Special Topics
CTSE 7990/7996 Research and Thesis

Other advisor-approved supporting courses 6000 level and above

Total Hours

RSED 6000/6 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.

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.

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)

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  

**Survey of Special Education/Diversity Course: 3 hours**  
RSED 6000/6006 Advanced Survey of Exceptionality OR state-approved diversity course

**Additional Courses: 15 hours**

Select 15 hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTSE 6000</td>
<td>Technology in Science Education</td>
</tr>
<tr>
<td>CTSE 7510</td>
<td>Research Studies in Area of Specialization</td>
</tr>
<tr>
<td>CTSE 7520</td>
<td>Curriculum and Teaching in Area of Specialization</td>
</tr>
<tr>
<td>CTSE 7530</td>
<td>Organization of Program in Area of Specialization</td>
</tr>
<tr>
<td>CTSE 7540/7546</td>
<td>Evaluation of Program in Area of Specialization</td>
</tr>
<tr>
<td>CTSE 7900/7906</td>
<td>Directed Studies</td>
</tr>
<tr>
<td>CTSE 7910/7916</td>
<td>Practicum in Area of Specialization</td>
</tr>
<tr>
<td>CTSE 7970/7976</td>
<td>Special Topics</td>
</tr>
<tr>
<td>CTSE 8980/8986</td>
<td>Field Project</td>
</tr>
<tr>
<td>Other advisor approved courses in Science Education</td>
<td></td>
</tr>
<tr>
<td>Other advisor-approved supporting courses 6000 level and above</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours**

---

1. RSED 6000/6 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/CTSE 7916 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/CTSE 8986 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

**Biology Education - PhD**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTSE 8990/8996</td>
<td>Research and Dissertation</td>
<td>10</td>
</tr>
<tr>
<td>ERMA 7200/7206</td>
<td>Basic Methods in Education Research</td>
<td>3</td>
</tr>
<tr>
<td>ERMA 7210</td>
<td>Theory and Methodology of Qualitative Research</td>
<td>3</td>
</tr>
<tr>
<td>ERMA 7220</td>
<td>Applied Qualitative Research</td>
<td>3</td>
</tr>
<tr>
<td>ERMA 7300/7306</td>
<td>Design and Analysis in Education I</td>
<td>3</td>
</tr>
<tr>
<td>ERMA 7310/7316</td>
<td>Design and Analysis in Education II</td>
<td>3</td>
</tr>
<tr>
<td>ERMA 8320/8326</td>
<td>Design and Analysis in Education III</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 60 Hours in @ 6000-8999

**Total Hours**

---

### Chemistry Education - MEd (Alternative Certification)

**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
### Professional Studies: 25 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTSE 7510</td>
<td>Research Studies in Area of Specialization</td>
<td>3</td>
</tr>
<tr>
<td>or CTSE 7530</td>
<td>Organization of Program in Area of Specialization</td>
<td></td>
</tr>
<tr>
<td>CTSE 6100</td>
<td>Curriculum and Teaching II: Science</td>
<td>4</td>
</tr>
<tr>
<td>CTSE 7540/7546</td>
<td>Evaluation of Program in Area of Specialization</td>
<td>3</td>
</tr>
<tr>
<td>CTRD 6000/6006</td>
<td>Language and Literacy in the Content Areas 1</td>
<td>3</td>
</tr>
<tr>
<td>RSED 6000/6006</td>
<td>Advanced Survey of Exceptionality 1</td>
<td>3</td>
</tr>
<tr>
<td>CTSE 6240/6246</td>
<td>Clinical Residency Seminar in Science Teaching 2</td>
<td>1</td>
</tr>
<tr>
<td>CTSE 7920/7926</td>
<td>Clinical Residency 2</td>
<td>8</td>
</tr>
</tbody>
</table>

**Total Hours:** 37

1. RSED 6000/6 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 6000/6 Language and Literacy and the 3-hour course requirement for RSED 6000/6 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)

#### 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**

RSED 6000/6006 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 7540/7546 Evaluation of Program in Area of Specialization
- CTSE 7910/7916 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 7900/7906 Directed Studies
- CTSE 7970/7976 Special Topics
- CTSE 7990/7996 Research and Thesis
- Other advisor-approved supporting courses 6000 level and above 3

**Total Hours:** 30

1. RSED 6000/6 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.
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)

#### 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

- RSED 6000/6006 Advanced Survey of Exceptionality OR state-approved diversity course 1

#### Additional Courses: 15 hours

Select 15 hours from the following: 15

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTSE 6000</td>
<td>Technology in Science Education</td>
</tr>
<tr>
<td>CTSE 7510</td>
<td>Research Studies in Area of Specialization 2</td>
</tr>
<tr>
<td>CTSE 7520</td>
<td>Curriculum and Teaching in Area of Specialization</td>
</tr>
<tr>
<td>CTSE 7530</td>
<td>Organization of Program in Area of Specialization</td>
</tr>
<tr>
<td>CTSE 7540/7546</td>
<td>Evaluation of Program in Area of Specialization 2</td>
</tr>
<tr>
<td>CTSE 7900/7906</td>
<td>Directed Studies</td>
</tr>
<tr>
<td>CTSE 7910/7916</td>
<td>Practicum in Area of Specialization 3</td>
</tr>
<tr>
<td>CTSE 7970/7976</td>
<td>Special Topics</td>
</tr>
<tr>
<td>CTSE 8980/8986</td>
<td>Field Project 3</td>
</tr>
<tr>
<td>Other advisor approved courses in Science Education</td>
<td></td>
</tr>
<tr>
<td>Other advisor-approved supporting courses 6000 level and above 4</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours** 30

---

1. RSED 6000/6 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/CTSE 7916 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/CTSE 8986 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

#### Chemistry Education - PhD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTSE 8990/8996</td>
<td>Research and Dissertation 10</td>
</tr>
<tr>
<td>ERMA 7200/7206</td>
<td>Basic Methods in Education Research 3</td>
</tr>
<tr>
<td>ERMA 7210</td>
<td>Theory and Methodology of Qualitative Research</td>
</tr>
<tr>
<td>ERMA 7220</td>
<td>Applied Qualitative Research</td>
</tr>
<tr>
<td>ERMA 7300/7306</td>
<td>Design and Analysis in Education I 3</td>
</tr>
</tbody>
</table>
ERMA 7310/7316 Design and Analysis in Education II 3
ERMA 8320/8326 Design and Analysis in Education III 3
Select 60 Hours in @ 6000-8999 60
Total Hours 88

**Physics Education - MEd (Alternative Certification)**

**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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTSE 7510</td>
<td>Research Studies in Area of Specialization</td>
<td>3</td>
</tr>
<tr>
<td>or CTSE 7530</td>
<td>Organization of Program in Area of Specialization</td>
<td>3</td>
</tr>
<tr>
<td>CTSE 6100</td>
<td>Curriculum and Teaching II: Science</td>
<td>4</td>
</tr>
<tr>
<td>CTRD 6000/6006</td>
<td>Language and Literacy in the Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>CTSE 7540/7546</td>
<td>Evaluation of Program in Area of Specialization</td>
<td>3</td>
</tr>
<tr>
<td>RSED 6000/6006</td>
<td>Advanced Survey of Exceptionality</td>
<td>1</td>
</tr>
<tr>
<td>CTSE 6240/6246</td>
<td>Clinical Residency Seminar in Science Teaching</td>
<td>1</td>
</tr>
<tr>
<td>CTSE 7920/7926</td>
<td>Clinical Residency</td>
<td>8</td>
</tr>
</tbody>
</table>

Total Hours 37

1. RSED 6000/6 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 6000/6 Language and Literacy and the 3-hour course requirement for RSED 6000/6 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)**

**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 6000/6006 Advanced Survey of Exceptionality OR state-approved diversity course 1

**Additional Courses: 15 hours**

Required: 6-8 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTSE 6000</td>
<td>Technology in Science Education</td>
</tr>
<tr>
<td>CTSE 7540/7546</td>
<td>Evaluation of Program in Area of Specialization</td>
</tr>
<tr>
<td>CTSE 7910/7916</td>
<td>Practicum in Area of Specialization</td>
</tr>
</tbody>
</table>

Select the remaining 7-9 hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTSE 7510</td>
<td>Research Studies in Area of Specialization</td>
</tr>
<tr>
<td>CTSE 7520</td>
<td>Curriculum and Teaching in Area of Specialization</td>
</tr>
<tr>
<td>CTSE 7530</td>
<td>Organization of Program in Area of Specialization</td>
</tr>
</tbody>
</table>

1. 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 - EdS (Certification)**

**Class AA Program Checklist for Teaching Field**

<table>
<thead>
<tr>
<th>Teaching Field: 12 hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>At least 1/3 of the program shall be in teaching field courses.</td>
<td></td>
</tr>
<tr>
<td>Select 12 hours of advisor-approved 6000-7000 level courses in Physics</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Survey of Special Education/Diversity Course: 3 hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RSED 6000/6006 Advanced Survey of Exceptionality OR state-approved diversity course</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional Courses: 15 hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 15 hours from the following:</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTSE 6000</td>
<td>Technology in Science Education</td>
<td>3</td>
</tr>
<tr>
<td>CTSE 7510</td>
<td>Research Studies in Area of Specialization</td>
<td>3</td>
</tr>
<tr>
<td>CTSE 7520</td>
<td>Curriculum and Teaching in Area of Specialization</td>
<td>3</td>
</tr>
<tr>
<td>CTSE 7530</td>
<td>Organization of Program in Area of Specialization</td>
<td>3</td>
</tr>
<tr>
<td>CTSE 7540/7546</td>
<td>Evaluation of Program in Area of Specialization</td>
<td>3</td>
</tr>
<tr>
<td>CTSE 7900/7906</td>
<td>Directed Studies</td>
<td>3</td>
</tr>
<tr>
<td>CTSE 7910/7916</td>
<td>Practicum in Area of Specialization</td>
<td>3</td>
</tr>
<tr>
<td>CTSE 7970/7976</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>CTSE 8980/8986</td>
<td>Field Project</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other advisor-approved supporting courses 6000 level and above</th>
<th></th>
</tr>
</thead>
</table>

**Total Hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

---

1. RSED 6000/6 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/CTSE 7916 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/CTSE 8986 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTSE 8990/8996</td>
<td>Research and Dissertation</td>
<td>10</td>
</tr>
<tr>
<td>ERMA 7200/7206</td>
<td>Basic Methods in Education Research</td>
<td>3</td>
</tr>
<tr>
<td>ERMA 7210</td>
<td>Theory and Methodology of Qualitative Research</td>
<td>3</td>
</tr>
<tr>
<td>ERMA 7220</td>
<td>Applied Qualitative Research</td>
<td>3</td>
</tr>
<tr>
<td>ERMA 7300/7306</td>
<td>Design and Analysis in Education I</td>
<td>3</td>
</tr>
<tr>
<td>ERMA 7310/7316</td>
<td>Design and Analysis in Education II</td>
<td>3</td>
</tr>
<tr>
<td>ERMA 8320/8326</td>
<td>Design and Analysis in Education III</td>
<td>3</td>
</tr>
<tr>
<td>Select 60 Hours in @ 6000-8999</td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

Total Hours 88