

University of Alabama in Huntsville

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Graduate Program Checklists

College of Education

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9-17-2015

## **Alternative A - Chemistry**

University of Alabama in Huntsville

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STATE OF ALABAMA DEPARTMENT OF EDUCATION  
TEACHER EDUCATION AND CERTIFICATION

Program: Alternative A - Chemistry  
Total Hours: 46

**ALTERNATIVE CLASS A EDUCATION PROGRAM CHECKLIST**

Institution: The University of Alabama in Huntsville

Date Approved: \_\_\_\_\_  
Date Expires: \_\_\_\_\_  
Revisions: \_\_\_\_\_

Study in each of the following areas:

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

<b>Curriculum:</b>	
ED 604 - Contributions of Psychology to Education	3
ED 609 - Classroom & Behavior Management	3
<b>Methods of Teaching:</b>	
ED 523 - Teaching Science in Middle and High Schools	3
<b>Diverse Populations: (including special needs)</b>	
ED 530 - Applied Multiculturalism	3
<b>Literacy: (including mathematics and technology)</b>	
ED 608 - Reading in the Content Areas	3
ED 520 - Computer-based Instructional Technology	3
<b>Professionalism:</b>	
ED 501 - Introduction to Education	1
<b>Using Assessment Data to Improve Student Learning:</b>	
ED 607 - Education Leader as Evaluator	3
<b>Survey of Special Education Coursework: (required if not previously completed)</b>	
ED 593 - Educating the Exceptional Child & Youth	3
<b>Internship:</b>	
ED 698 - Middle and High School Internship	3

15 hours of graduate coursework in Chemistry is required

See graduate course listing or graduate catalog for course descriptions

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**English Language Arts, General Science, and General Social Studies programs shall require at least one course in two areas within the broader field.**

**Additional Courses:**

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\_\_\_\_\_

\_\_\_\_\_

**Dean of Education:**

Beth N. Quick

Date: 9-17-2015



STATE OF ALABAMA DEPARTMENT OF EDUCATION  
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### Chemistry - Graduate Courses

- • CH 500 - Topics in Chemistry
- • CH 521 - Chemical Instrumentation
- • CH 525 - Environmental Chemistry
- • CH 531 - Theoretical Organic Chemistry
- • CH 540 - Polymer Synthesis and Characterization
- • CH 549 - Spectroscopy and Molecular Structure
- • CH 553 - Introductory Quantum Mechanics I
- • CH 554 - Introductory Quantum Mechanics II
- • CH 560 - X-Ray Structure Determination
- • CH 561 - Biochemistry I
- • CH 562 - Biochemistry II
- • CH 565 - Molecular Biochemistry Laboratory
- • CH 600 - Advanced Inorganic Chemistry
- • CH 601 - Structural Methods in Inorganic Chemistry
- • CH 602 - Chemistry of Coordination Compounds
- • CH 603 - Chemistry of Nonmetal Compounds
- • CH 621 - Methods of Chemical Analysis
- • CH 631 - Synthetic Organic Chemistry
- • CH 632 - Physical Organic Chemistry
- • CH 633 - Organic Structure Determination
- • CH 640 - Advanced Chemical Thermodynamics
- • CH 641 - Statistical Thermodynamics
- • CH 642 - Advanced Chemical Dynamics
- • CH 643 - Quantum Chemistry
- • CH 644 - Chemical Electrodynamics
- • CH 645 - Polymer Physical Chemistry
- • CH 646 - Thermodynamics of Materials
- • CH 647 - Advanced Biophysical Chemistry I
- • CH 648 - Advanced Biophysical Chemistry II
- • CH 650 - Principles of Liquid & Solid Interfaces
- • CH 661 - Biological Macromolecules
- • CH 699 - Master's Thesis