

University of Alabama in Huntsville

LOUIS

Graduate Program Checklists

College of Education

9-17-2015

Alternative A - Mathematics

University of Alabama in Huntsville

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Recommended Citation

University of Alabama in Huntsville, "Alternative A - Mathematics" (2015). *Graduate Program Checklists*. 25.

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STATE OF ALABAMA DEPARTMENT OF EDUCATION
TEACHER EDUCATION AND CERTIFICATION

Program: Alternative A - Mathematics

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.

Curriculum:

ED 604 - Contributions of Psychology to Education 3

ED 609 - Classroom & Behavior Management 3

Methods of Teaching:

ED 522 - Teaching Mathematics in Middle and High Schools 3

Diverse Populations: (including special needs)

ED 530 - Applied Multiculturalism 3

Literacy: (including mathematics and technology)

ED 608 - Reading in the Content Areas 3

ED 520 - Computer-based Instructional Technology 3

Professionalism:

ED 501 - Introduction to Education 1

Using Assessment Data to Improve Student Learning:

ED 607 - Education Leader as Evaluator 3

Survey of Special Education

Coursework: (required if not previously completed)

ED 593 - Educating the Exceptional Child & Youth 3

Internship:

ED 698 - Middle and High School Internship 3

15 hours of graduate coursework in Mathematics is required

See attached list of course options or Graduate catalog for course descriptions

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:

Dean of Education:

Beth N. Quick

Date: 9-17-2015



STATE OF ALABAMA DEPARTMENT OF EDUCATION
TEACHER EDUCATION AND CERTIFICATION

Mathematics Graduate Courses

- • MA 502 - Introduction to Real Analysis
- • MA 503 - Introduction to Complex Analysis
- • MA 506 - Methods of Partial Differential Equations
- • MA 508 - Applied Linear Algebra
- • MA 515 - Introduction to Numerical Analysis
- • MA 520 - Intermediate Differential Equations
- • MA 524 - Dynamical Systems I
- • MA 526 - Partial Differential Equations I
- • MA 538 - Metric Spaces with Applications
- • MA 540 - Combinatorial Enumeration
- • MA 542 - Algebra
- • MA 544 - Linear Algebra
- • MA 561 - Introduction to Fourier Analysis
- • MA 562 - Intermediate Fourier Analysis
- • MA 565 - Intermediate Mathematical Modeling
- • MA 585 - Probability
- • MA 590 - Selected Topics in Mathematics
- • MA 607 - Mathematical Methods I
- • MA 609 - Mathematical Methods II
- • MA 614 - Numerical Methods for Linear Algebra
- • MA 615 - Numerical Methods for Partial Differential Equations
- • MA 624 - Dynamical Systems II
- • MA 626 - Partial Differential Equations II
- • MA 633 - Geometry
- • MA 638 - General Topology
- • MA 640 - Graph Theory
- • MA 643 - Group Theory
- • MA 644 - Matrix Theory
- • MA 645 - Combinatorial Design
- • MA 653 - Real Analysis I
- • MA 654 - Real Analysis II
- • MA 656 - Complex Analysis I
- • MA 658 - Introduction to Functional Analysis
- • MA 661 - Special Functions
- • MA 662 - Asymptotics and Perturbation Methods
- • MA 667 - The Calculus of Variations and Optimal Control
- • MA 685 - Stochastic Processes with Applications I
- • MA 686 - Stochastic Processes with Applications II
- • MA 690 - Special Topics in Mathematics
- • MA 695 - Graduate Seminar
- • MA 699 - Master's Thesis