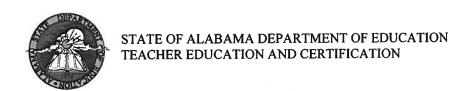


| | | Program: | Alternative A - Mathematics | |
|---|-------------|--|---|--|
| | | | Total Hours: 4 | |
| ALTERNATIVE CLAS | SS A ED | UCATION PROGRAM CI | HECKLIST | |
| nstitution: The University of Alabama in Huntsville | | | Date Approved: Date Expires: Revisions: | |
| | | | | |
| udy in each of the following areas: | | Teaching Field: At least 1/3 field courses. | of the program shall be in tea | |
| Curriculum: | | 15 hours of graduate cours | ework in | |
| ED 604 - Contributions of Psychology to | 3 | Mathematics is required | | |
| Education | | | | |
| ED 609 - Classroom & Behavior | 3 | See attached list of course | options or | |
| Management | | Graduate catalog for cours | e descriptions | |
| Methods of Teaching: | | | | |
| ED 522 - Teaching Mathematics in | 3 | | | |
| Middle and High Schools | | | | |
| | | | | |
| Diverse Populations: (including special | | | | |
| needs) | 2 | | | |
| ED 530 - Applied Multiculturalism | | - English Language Arts (| Canaral Science | |
| Literacy: (including mathematics and | | English Language Arts, General Science, and General Social Studies programs shall require at least one course in two areas within the broader field. | | |
| technology) | 2 | within the broader field. | | |
| ED 608 - Reading in the Content Areas ED 520 - Computer-based Instructional | 3 | - | | |
| Technology | | _ | | |
| Professionalism: | | Additional Courses: | | |
| ED 501 - Introduction to Education | 1 | | | |
| | | | | |
| | | | | |
| Using Assessment Data to Improve | | | | |
| Student Learning: ED 607 - Education Leader as Evaluator | 2 | | | |
| ED 607 - Education Leader as Evaluator | 3 | _ | | |
| Survey of Special Education Coursework: (required if not previously | | | | |
| completed) ED 593 - Educating the Exceptional Child & Youth | <u>3</u> | Dean of Education: | | |
| Intornahine | | Beth N. 6 Date: 9-17 | Ruick | |
| Internship: ED 698 - Middle and High School | | 150.151110 | | |
| Internship | 3 | | - A M | |
| | | Date: 9-17 | -2015 | |
| | | | | |

Alternative A - Mathematics



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