Program: Education B.S. - Mathematics

Total Hours: 123

CLASS B EDUCATION PROGRAM CHECKLIST

Institution: **The University of Alabama in Huntsville**

Date Approved:

Date Expires:

Revisions:

General Studies

Shall include courses and /or experiences in the humanities,

social studies, mathematics, and science.

Humanities: (Shall include 12 hours of English Language Arts for Early Childhood, Elementary, and Special Education programs.)

English Composition (101, 102 or 105)	3-6
Fine Arts	3
Humanities (literature)	3
Humanities (non-literature)	3
Humanities/Fine Arts	3
(including CM 113 - Public Speaking)	

Social studies: (Shall include 12 hours for Early Childhood, Elementary, and Special Education programs.)

History Courses ***	3
Social and Behavioral Science (non-history)	3
History/Social & Behavioral Sci,	6
(Must take PY 101 and PY 201)	

Science: (Shall include 12 hours for Early Childhood, Elementary, and Special Education programs.)

Science: two-course sequence	8
(PH111/114 & PH112/115 recommended)	

Mathematics: (Shall include 12 hours for Early Childhood, Elementary, and Special Education programs.)

MA-171 Calculus A	4

Other:

Computer Science CS 102	3

Professional Studies*

ED 301 - Introduction to Education*	1
ED 307-Multicultural Foundations of ED*	3
ED 308 - Educational Psychology*	3
ED 350 - Technology in the Classroom	3
ED 309 - Classroom Management	3
EDC 301-Teaching Exceptional Children*	3
EDC 311 - Instructional Strategies*	3
ED 408 - Content Area Reading	3
ED 410 - Found. of Education Evaluation	3
ED 423 - Teaching Mathematics in Middle And Secondary School	3

*Up to five professional studies courses may be taken prior to admission to TEP. Each of these is indicated with an asterisk.

Internship: ED 497 - Middle and High School Internship — 12

Teaching Field**

Must include an academic major of at least 32 semester hours with a minimum of 19 hours at the upper division.
(List all courses required for the teaching field.)

MA 172 - Calculus B	4
MA 201 - Calculus C	4
MA 238 – Intro to Diff. Equations	3
MA 244 - Introduction to Linear Algebra	3
MA 330 - Foundations of Mathematics	3
MA 385 - Introduction to Probability	3
MA 433 - Introduction to Geometry	3
MA 442 - Algebraic Structures with Appl.	3
MA 452 - Introduction to Real Analysis	3
ST/MA 487 - Intro. to Math Statistics	3
MA 300+ Elective	3
MA 300+ Elective	3

English Language Arts shall include courses in literature, grammar, reading skills, writing, speech, drama/theatre, and print or broadcast journalism. **General Social Studies shall include courses in economics, geography, history, and political science. **General Science** shall include courses in biology, chemistry, Earth and space sciences, and physics.

*** See General Education Component of Undergraduate Catalog

Dean of Education:

Date:

Mathematical Sciences - Electives

- MA 385 - Introduction to Probability and Statistics
- MA 399 - Mathematics Project
- MA 415 - Introduction to Numerical Methods
- MA 420 - Intermediate Differential Equations
- MA 450 - Combinatorial Enumeration
- MA 453 - Introduction to Complex Analysis
- MA 456 - Methods of Partial Differential Equations
- MA 458 - Applied Linear Algebra
- MA 460 - Introduction to Fourier Analysis
- MA 465 - Introduction to Mathematical Modeling
- MA 490 - Selected Topics in Undergraduate Mathematics
- MA 499 - Mathematics Project