ATHENS STATE UNIVERSITY

COLLEGE OF ARTS & SCIENCES 2011-12 BS Mathematics Licensure/Certification – 27.0101

▶MINIMUM HOURS FOR GRADUATION: 129-133 SEMESTER HOURS.
MUST INCLUDE A MINIMUM OF 60 SEMESTER HOURS OF UPPER LEVEL COLLEGE/UNIVERSITY CREDIT (300/400 LEVEL CREDIT).
A MINIMUM OF 33 SEMESTER HOURS MUST BE COMPLETED WITH ATHENS STATE UNIVERSITY. UNOFFICIAL 3/11

***PLEASE READ NOTES ON BACK OF THIS FORM

Date:

Name: ____ I.D. #: ____ Date of enrollment: ____ Advisor: ____

PLEASE BE AWARE THAT PROGRAM REQUIREMENTS ARE SUBJECT TO CHANGE, AND ARE DEPENDENT ON YOUR ACTUAL DATE OF ENROLLMENT.

1 APPLICABLE GENERAL UNIVERSITY REQUIREMENTS .....See " ▶ " above and Catalog

2. GENERAL EDUCATION REQUIREMENTS AND PRE-PROFESSIONAL REQUIREMENTS

I. **Written** Composition..... 6 semester hours

II. **Humanities & Fine Arts (12 semester hours)**
At least one fine arts course ..... 3 semester hours
Literature*..... .....3 semester hours ___ or..... 6 semester hours
Speech (SPH 106 **or** SPH 107) ..... 3 semester hours
Humanities/Fine Arts Elective.....0 semester hours___ or ..... 3 semester hours

III. **Natural Sciences & Mathematics (11 semester hours)**
Precalculus Algebra.....3 semester hours
Natural Science (lab-based) required..... .....8 semester hours
Calculus-based Physics I and II recommended

IV. **History/ Behavioral & Social Sciences (12 semester hours)**
History*..... .....3 semester hours ___ or ..... 6 semester hours
General Psychology..... 3 semester hours
History/Behavioral or Social Science Elective.....3 semester hours___ or ..... .6 semester hours

*Students must complete a 6 semester hour sequence in either Area II Literature or Area IV History.

TOTAL GENERAL EDUCATION REQUIREMENTS.....41 SEMESTER HOURS

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL):**
CIS 146 Microcomputer Application **or**
CIS 301 Problem Solving With Computers..... 3 semester hours
Precalculus Trigonometry..... 3 semester hours
Calculus I, II, and III.....12 semester hours
General Electives.....1-5 semester hours

TOTAL PRE-PROFESSIONAL HOURS.....19-23 SEMESTER HOURS
TOTAL GEN. ED. REQ. AND MAJOR PREREQUISITE HOURS..... 60-64 SEMESTER HOURS

4. **PROFESSIONAL COURSES:**
MA 308 Discrete Mathematics..... 3 semester hours
Linear Algebra (preferably MA 310 Matrices and Linear Algebra)..... 3 semester hours
MA 314 College Geometry..... ..... 3 semester hours
MA 320 Introduction to Abstract Algebra..... .3 semester hours
MA 330 Advanced Mathematical Software..... 3 semester hours
MA 331 Applied Probability and Statistics..... 3 semester hours
MA 470 Senior Mathematics Seminar..... 3 semester hours
Computer Programming , (preferably CS 317 Computer Science I*) ..... 3 semester hours

Plus THREE (3) Mathematics Electives from the following: .....9 semester hours
MA 316 Vector Analysis
MA 321 Differential Equations***
MA 401 Complex Variables**
MA 423 Numerical Analysis
MA 428 Partial Differential Equations
MA 431 Introduction to Mathematical Statistics***
MA 445 Mathematical Modeling and Simulation
MA 450 Advanced Calculus I
MA 451 Advanced Calculus II
MA 452 Introductory Real Analysis**
MA 480 Special Topics in Mathematics

*If a programming course has not been taken, CS 305, Introduction to Programming, is recommended as a general elective and a prerequisite to CS 317.
**Recommended if planning to attend graduate school.
***If a curriculum change is made from Track II to Track I, all Track I requirements must be met.

TOTAL PROFESSIONAL HOURS..... 33 SEMESTER HOURS

5. **COURSES FOR CERTIFICATION:**

ED 301 Foundations of Education I……..3 semester hours
ED 302 Foundations of Education II……3 semester hours
ED 305 Technology & Media in Education……..……3 semester hours
SC 331 Classroom Management in Secondary Education ……..……3 semester hours
SC 333 Teaching Reading/Writing in the Content Areas… ……..……3 semester hours
SE 301 Introduction to Exceptional Learners ……..……3 semester hours
PS 334 Adolescent Psychology……..……3 semester hours
SC 362 Assessment and Evaluation in Secondary Education…… 3 semester hours
MA 454 Materials and Methods of Teaching Mathematics in Middle/School/ High School……...……...…3 semester hours
SC 486 Internship in High School Education……..9 semester hours

TOTAL REQ. FOR LICENSURE/CERTIFICATION:……36 SEMESTER HOURS
TOTAL HOURS FOR GRADUATION……...129-133 SEMESTER HOURS

NOTE: Junior college (lower level--100/200) courses which are accepted to meet a particular upper level (300/400) course requirement **DO NOT** count toward the **required 60 semester hours of upper level credit.**

6. **EXIT EXAMS**
An exit exam is required for graduation. The mathematics exit exam for Track II is the PRAXIS II Math content exam required by the State of Alabama for certification in mathematics. This PRAXIS II exam is administered by ETS. It is the student's responsibility to schedule and take the exit exam. It is required by the College of Education that the Math Content PRAXIS II (online-0061) is passed with a score of 126 (as of April 2007) prior to internship. Students ARE REQUIRED to submit a copy of their PRAXIS II score to their Math advisor to complete their graduation file.

7. If a student, at any time, changes from Track II to Track I, the student must meet the mathematics requirements for Track I; thus be advised when choosing mathematics electives.

8. All coursework must be completed with a grade of C or higher.

9, Courses underlined require admission to the Teacher Education Program (TEP) and may not be transferred from another university.

10. Each student will be required to produce course syllabi and/or course descriptions for courses they wish to transfer towards their Professional Courses requirements. This is an Alabama State Department of Education requirement. The Alabama State Department of Education ultimately decides whether or not a course will count as transfer credit after the syllabi are evaluated.

PROSPECTIVE STUDENTS: If you obtain this program of study checksheet before enrolling at ASU, please be aware that it is provided to assist you in planning only. Program requirements are subject to change; official program requirements are those that are in effect at the date of official enrollment at ASU.

ADVISING NOTES

You are encouraged to meet with your advisor during your first term at ASU.

DATE	COMMENTS