

CURRICULUM CHECK SHEET
BACHELOR OF ARTS IN EDUCATION,
SECONDARY EDUCATION with a major in
MATHEMATICS
ARIZONA STATE UNIVERSITY
2004-2005

This check sheet supplements the *ASU General Catalog*, the *University General Studies Catalog* and the *College of Education Check Sheet* for this curriculum. Please consult those documents and use the College of Education Check Sheet to record courses meeting College and University requirements. Program and course descriptions for mathematics can be found in the General Catalog. There are two options.

Program (PTPP), but cannot be counted as part of the 36-hour major requirement.

Option 1. The major must include 36 hours in mathematics courses. The following are required:

MAT 270, Calculus with Analytic
Geometry I
 MAT 271, Calculus with Analytic
Geometry II
 MAT 272, Calculus with Analytic
Geometry III
 MAT 300, Mathematical Structures
 MAT 310, Introduction to Geometry
 MAT 342, Linear Algebra
 or MAT 343, Modern Linear
 Algebra
 MAT 370, Intermediate Calculus
 or MAT 371, Advanced Calculus I
 MAT 443, Introduction to Abstract Algebra
 or MAT 445, Theory of Numbers
 MTE 483, Mathematics in the
 Secondary School
 STP420, Introductory Applied Statistics
 CSE 100, Principles of Programming with
 C++ *or* CSE 110, Principles of
 Programming with Java
 or CSE 200, Concepts of
 Computer Science

36 Semester Hours

Note: MTE 482, Methods of Teaching Mathematics in Secondary School, and MTE 494, Advanced Methods of Teaching Secondary Mathematics, comprise the methods in academic specialization courses for mathematics required as part of the Professional Teacher Preparation

Option 2. This option may be examined only in combination with option two in chemistry or physics. The mathematics portion of the program requires 30 semester hours including the following required courses:

MAT 270, Calculus with Analytic
Geometry I
 MAT 271, Calculus with Analytic
Geometry II
 MAT 272, Calculus with Analytic
Geometry III
 MAT 300, Mathematical Structures
 MAT 310, Introduction to Geometry
 MAT 342, Linear Algebra
 MAT 370, Intermediate Calculus
 or MAT 371, Advanced Calculus
 or MAT 460, Vector Calculus
 MAT 443, Abstract Algebra

30 Semester Hours

Note: CSE 100, CSE 110 or CSE 200 are also recommended.