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.

**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  
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, Introduction to Computer Science  
**or** CSE 183, Applied Problem Solving with FORTRAN  
**or** CSE 200, Principles of computing

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

**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 I  
MAT 443, Abstract Algebra

30 Semester Hours

**Note:** CSE 100 or CSE 183 or CSE 200 are also recommended.