MAJOR REQUIREMENTS

The B.A. degree in mathematics requires a minimum of 36 semester hours of course work in mathematics and statistics, and additional course work in closely related fields, for a total of 51 semester hours. The required course work has the following components:

1. Core courses in mathematics:
   - 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 342, Linear Algebra
   - MAT 370, Intermediate Calculus
     or MAT 371, Advanced Calculus

   Subtotal: 21 semester hours

2. Computer science requirement
   - CSE 100, Principles of Programming
     or CSE 200, Concepts of Computer Science

   Subtotal: 3 semester hours

3. Two advanced courses in mathematics:
   Both courses preferably should be taken from the same grouping.
   - (a) Algebra, topology and number theory (MAT 410, 442, 443, 444, 445)
   - (b) Computational mathematics (MAT 420, 421, 423, 425, 427)
   - (c) Differential equations (MAT 462, 475, 476)
   - (d) Analysis and applications (MAT 372, 461, 472)
   - (e) Statistics and probability (STP 420, 421, 425, 427, 429)
   - (f) Applied mathematics and dynamics (MAT 451, 452, 455)
   - (g) Discrete mathematics (MAT 415, 416, 419)

   Subtotal: 6 semester hours

4. Three additional courses in mathematics or statistics:
   Three additional MAT or STP courses at the level of MAT 274 or higher or STP 326 or higher, subject to the restrictions below.

   Subtotal: 9 semester hours

5. Related field coursework requirement:
   Twelve additional hours of course work in mathematics, statistics, or related fields, subject to the restrictions below. A list of courses is available in the Math Department.

Restrictions:

1. MAT 370 and MAT 371 may not both be counted toward degree requirements in mathematics.
2. A minimum grade of C is required in all coursework used to satisfy major requirements.
3. MAT 362, MAT 485, and ASU West MAT 411 may not be used to satisfy requirement 4.