**CURRICULUM CHECK SHEET**
**Bachelor of Science in Mathematics**
**With a Concentration in Statistics**
**Arizona State University**
**2004-2005**

MAJOR REQUIREMENTS

The B.S. degree in Mathematics with a concentration in statistics requires a minimum of 42 semester hours of course work in mathematics and statistics, plus a minimum of 13 semester hours in computer science and related fields, for a minimum of 55 semester hours of course work related to the major. A grade of "C" or higher is required in all courses taken for the major, MAT 370 and 371 may not both be used to satisfy these requirements. The course work has the following components:

1. Core Courses in Mathematics

| | |
|---|---|
| MAT 270 Calculus with Analytic Geometry I | 4 |
| MAT 271 Calculus with Analytic Geometry II | 4 |
| MAT 272 Calculus with Analytic Geometry III | 4 |
| MAT 300 Mathematical Structures | 3 |
| MAT 342 Linear Algebra | |
|     or MAT 343 Applied Linear Algebra | 3 |
| MAT 371 Advanced Calculus I | 3 |
| STP 420 Introductory Applied Statistics | 3 |
| STP 421 Probability | 3 |
| STP 427 Mathematical Statistics | 3 |
| STP 429 Experimental Statistics | 3 |

**Subtotal: 33 semester hours**

2. Computer Science Requirement
    CSE 200 Concepts of Computer Science

**Subtotal: 3 semester hours**

3. Additional Advanced Courses in Mathematics and Statistics
   Three courses from the following list:
     MAT 274, Elementary Differential Equations (3)
      or MAT 275, Modern Differential Equations (3)
     MAT 372, Advanced Calculus II (3)
     MAT 423, Numerical Analysis I (3)
     MAT 442, Advanced Linear Algebra (3)
     STP 425, Stochastic Processes (3)

**Subtotal: 6 semester hours**

4. Required Related Field Course Work
   Statistics/probability, mathematics, or related fields.  A list of courses is available in the Undergraduate Mathematics Office and on our webpage at http://math/la/asu.edu.

**Subtotal: 10 semester hours**

Restrictions:
1. Credit may not be earned for both MAT 274 and 275 or for both MAT 342 and 343.
2. A minimum grade of C is required in all coursework used to satisfy major requirements