Mathematics for Information Systems
Major Field Assessment

Mission Statement: The College of Arts and Sciences offers a variety of programs and courses leading to many successful careers. Computer technology is integrated throughout all majors. The College offers the vast majority of the general education courses that serve as background for all degrees. Faculty in the arts, English, and social sciences are principally located in Beadle Hall. Math and science faculty are located in the C. Ruth Habeger Science Center. The clinical faculty in Respiratory Care are located at McKennan and Sanford Hospitals in Sioux Falls and Rapid City Regional Hospital in Rapid City. The disciplines within the College of Arts and Sciences are Academic Skills, Art, Art Design, Biology, Chemistry, Computer Graphics, Digital Arts, English, Geography, History, Mass Communication, Mathematics, Music, Philosophy, Physics, Physical Science, Respiratory Care, Scientific Forensic Technology, Sociology, Spanish, Speech, Theatre, and Web Design.

Goal Statement: Graduates of the program will have mathematical and technological knowledge and skills that allow them to enter the job market in business and industry obtaining positions that require significant quantitative ability.

Mathematics for Information Systems graduates will:

1. Have a basic knowledge of the principles of mathematics.
   a. Graduates will understand the important concepts and methods of the major disciplines within mathematics.

      1) Course Grades: 90% of graduates will successfully complete upper division coursework in mathematics with a minimum grade of C in each course.

      2) Minimum GPA in Major Field: 100% of graduates will have a minimum GPA of 2.6 in mathematics courses.

         As of Spring 2015, will no longer be used 4) MFAT in Mathematics: 90% will score no lower than 1 standard deviation below the user norm.

   b. Graduates who enter graduate school or find employment in mathematics or mathematics related areas will successfully apply that knowledge in their postgraduate work or jobs.

      1) Graduate Survey: 90% of graduates will indicate that DSU provided adequate to excellent preparation for their career.

Revised March 2015
2) Employer Survey: 90% of employers will indicate that the graduate meets or exceeds expectations with knowledge of academic area as it relates to his/her position.

2. Be successful in entering careers in mathematics, relevant business, or related areas.

   a. Graduates who seek it will find employment or continue education in an area related to their major.

      1) Placement Statistics: 80% of graduates who seek to continue their professional involvement with their discipline will find employment in mathematics, or another area related to their major, or will enter graduate study in an area related to their major.

      2) Graduate Survey: 80% of graduates will indicate their job or graduate study program is moderately or highly related to their major field of study at DSU.

b. Graduates will be prepared with the knowledge and skills that allow them to be successful in their chosen career.

      1) Graduate Survey: 95% of graduates will indicate that DSU provided adequate to excellent preparation for their career.

      2) Employer Survey: 90% of employers of recent graduates will indicate that the employee meets or exceeds expectations in knowledge of the academic area as it relates to his/her position.

3. Have a high degree of proficiency in the use of computer technology.

   a. Students will demonstrate competence in the use of computer technology during their study at DSU.

      1) Course Grades: 90% of graduates will successfully complete upper division course work in Information Systems and/or Computer Science with a minimum grade of C in each course.

      2) Computer Applications: 90% of graduates will successfully complete SCTC 203 (Computer Applications in the Natural Sciences) with a minimum grade of C. (removed Fall 2009)

b. Graduates will be able to successfully use computer technology in their chosen career.

      1) Graduate Survey: 90% of recent graduates will indicate that DSU contributed to their ability to select and apply appropriate technology (previously overall computer knowledge).
2) Employer Survey: 90% of employers of recent DSU graduates will indicate that the employee meets or exceeds expectations in their ability to select and apply appropriate technology (previously overall computer knowledge).