Department of Mathematics Goals and Objectives

**GOALS:**

1. **Enhance graduate program**
   a. Increase recruitment activities to improve quality and diversity of applicants.
   b. Improve stipends and benefits for graduate students.
   c. Increase quantity of graduate students.
   d. Re-evaluate structure of coursework/exam requirements.
   e. Establish a training program that includes supervision and effective mentoring.

2. **Enhance undergraduate program**
   a. Revise the remedial math program and enhance course delivery.
   b. Revise service courses in consultation with client departments.
   c. Re-evaluate structure of coursework requirements and courses for majors.
   d. Enhance teacher preparation.
   e. Establish effective mentoring and supervision for undergraduate students.
   f. Establish effective communication with math and math education majors.

3. **Improve department research profile**
   a. Establish post-doctorates and short term visitors program.
   b. Strengthen existing research by adding new faculty.
   c. Provide developmental leave support at all ranks.
   d. Improve faculty training and mentoring.

4. **Expand department’s outreach activities**
   a. Establish collaborations with teachers and administrators within local school districts.
   b. Improve collaborations and interactions with area institutions of higher education.
   c. Organize mathematics activities at local elementary, middle, and high schools.
   d. Participate in local and regional Science and Math fairs and Olympiads.
   e. Consider the creation of an REU program for the department.
OBJECTIVES:

1. **Enhance graduate program**
   a. Graduate committee follow-up on recent department retreats on a continual basis.
   b. Increase stipends to $12,000 for new students, $14,000 for students who have completed teacher training, and $16,000 for teaching fellows within five years.
   c. Benefits for all graduate assistants within five years.
   d. 3 new graduate student “positions” each year for five years.
   e. Establishment of a complete mentoring/training program within two years.
   f. Three recruiting visits to regional institutions each year.
   g. Thirty graduate program mailers sent to targeted institutions each year.

2. **Enhance undergraduate program**
   a. Two retreats in the upcoming year to discuss improvements to the undergraduate program.
   b. Department follow-up to retreats on a continual basis.
   c. Meet with client departments within three years to analyze possible changes to courses.
   d. Create course offering bulletin board when remodel of Minard Hall is complete.
   e. Continual refinement and use of listserv for communication with math majors.
   f. Within five years create a faculty training and orientation program.

3. **Improve department research profile**
   a. Add one new tenure track line in years 1, 2, and 5.
   b. Add two postdoctoral positions in years 3 and 4.
   c. Within five years create a fully funded short-term visitor/developmental leave program.

4. **Expand department’s outreach activities**
   a. Within one year organize a neutral site meet-and-greet with local pre-college mathematics teachers.
   b. Continual follow-up including a catalog of outreach activities and possibilities.
   c. Study and make a recommendation within two years on the possibility of an REU at NDSU.