

ASSESSMENT RECORD FOR DEPARTMENT OF

Computer and Mathematical Sciences

(Academic Department Name)

2009-2010

(Assessment Period Covered)

September 10, 2010

(Date Submitted)

Includes Assessment Reports for those Instructional Programs listed below:

Title of Instructional Degree Program

Degree Level

(Associate, Bachelors,
Master's, etc.)

Mathematics

Bachelors

Submitted By: Dr. John Jeffries

(Departmental Chair or Faculty Assessment Representative)

ASSESSMENT REPORT FOR

Mathematics

(Instructional Degree Program)

Bachelors

(Degree Level)

2009-2010

(Assessment Period Covered)

September 10, 2010

(Date Submitted)

Expanded Statement of Institutional Purpose Linkage:

Institutional Mission Reference: The principal focus of NMHU's curricular program is undergraduate education in the liberal arts and sciences combined with a number of directly career related and pre-professional fields.

College/University Goal(s) Supported:

Each graduate of NMHU will be treated as an individual, and all graduates of baccalaureate-level programs at the University will have developed a depth of understanding in their major field and been afforded the opportunity to prepare for a career or profession following graduation.

Intended Educational (Student) Outcomes:

1. Students completing the baccalaureate program in mathematics will be well prepared for their first position in the field.
2. Students completing the baccalaureate program will demonstrate the behavior and attitudes of a professional within the field and be capable of performing the technical tasks required of their field.
3. Each math graduate will be capable of independent thought and initiative in the field of mathematics

ASSESSMENT REPORT FOR

Mathematics

(Instructional Degree Program)

Bachelors

(Degree Level)

2009-2010

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Intended Educational (Student) Outcome:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below and the intended outcome number entered in the blank spaces.

1. Students completing the baccalaureate program in mathematics will be well prepared for their first position in the field.

First Means of Assessment for Outcome Identified Above:

1a. Means of Program Assessment & Criteria for Success:

In exit and post-graduate surveys, ninety percent of the graduates of the mathematics program will 'agree' or 'strongly agree' with the statement 'In the field of mathematics I feel as well prepared as the majority of individuals who have completed a degree in mathematics during the past year.'

1a. Summary of Assessment Data Collected:

Unable to answer as there is no data.

1a. Use of Results to Improve Instructional Program:

Unable to answer as there is no data.

Second Means of Assessment for Outcome Identified Above:

1b. Means of Program Assessment & Criteria for Success:

Graduates will receive employment in a field related to mathematics.

1b. Summary of Assessment Data Collected:

Data insufficient to answer this.

1b. Use of Results to Improve Instructional Program:

Students are now expected to take more applied courses including statistics and computer programming which will make them more employable.

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2. Students completing the baccalaureate program will demonstrate the behavior and attitudes of a professional within the field and be capable of performing the technical tasks required of their field.

First Means of Assessment for Outcome Identified Above:

2a. Means of Program Assessment & Criteria for Success:

Eighty percent of math graduates will identify behaviors and attitudes that will contribute to further learning and success in their discipline.

2a. Summary of Assessment Data Collected:

Attendance was outstanding and the students exhibited the behaviors and attitudes of a professional in the mathematical sciences.

2a. Use of Results to Improve Instructional Program:

The math faculty should continue to set high standards of professional conduct to be met by all of their students.

Second Means of Assessment for Outcome Identified Above:

2b. Means of Program Assessment & Criteria for Success:

All math graduates will pass a math exam on the fundamentals of undergraduate mathematics. Eighty percent will receive a score of very good or excellent.

2b. Summary of Assessment Data Collected:

There were two students enrolled in Math 430, Mathematical Problem Solving, in the spring semester of 2010. Both students received an excellent evaluation on the math exams, averaging over ninety percent. The class more than met the criteria for success. They did an outstanding job.

2b. Use of Results to Improve Instructional Program:

No adjustments need to be made.

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Intended Educational (Student) Outcome:

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3. Each math graduate will be capable of independent thought and initiative in the field of mathematics.

First Means of Assessment for Outcome Identified Above:

3a. Means of Program Assessment & Criteria for Success:

All math majors and minors will be required to take Math 430, Mathematical Problem Solving. In this course students will maintain a portfolio of challenging problems in mathematics that they have solved.

3a. Summary of Assessment Data Collected:

Both students received an excellent evaluation on their problems sets (90% - 100%).

3a. Use of Results to Improve Instructional Program:

No adjustments need to be made.