

# ASSESSMENT RECORD FOR DEPARTMENT

Computer & Mathematical Sciences  
(Academic Department Name)

2009-2010  
(Period Covered)

April 15, 2011  
(Date Submitted)

Assessment reports are included for the instructional programs listed below:

**Instructional Degree Program & Start Date<sup>1</sup>**

**Degree Information<sup>2</sup>**

**Program Name/Start Date**

**Level**

**Major/minor**

Computer Science

MACS

Major

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<sup>1</sup>Specify semester/year program started if within the past three years of submission of this assessment record.

<sup>2</sup>Specify degree under level (B.S., M.A., etc.) and whether entry is for major or minor; example entry - level: Bachelor of Science, major/minor: minor.

Submitted By: Dr. John Jeffries  
(Program Chair)

Mr. Lonny Montoya  
(Assessment Coordinator)

# ASSESSMENT REPORT FOR

**Computer Science**

(Instructional Degree Program)

**MS**

(Degree Level)

**2009-2010**

(Assessment Period Covered)

**April 15, 2011**

(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 masters-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 masters program in computer science will be well prepared for their first position in the field.

2. Students completing the masters 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. Graduates will be able to analyze a problem and design and implement a solution that may or may not involve computer programming.

# ASSESSMENT REPORT FOR

Computer Science

(Instructional Degree Program)

2009-2010

(Assessment Period Covered)

MS

(Degree Level)

April 15, 2011

(Date Submitted)

## 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 masters program in computer science 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:** Students were asked to complete post-graduate surveys after completing the program.

**1a. Data Results:** In exit and post-graduate surveys, the majority of the graduates of the computer science baccalaureate program will 'agree' or 'strongly agree' with the statement 'In the field of computer science, I feel as well prepared as the majority of individuals who have completed a similar degree during the past year.'

**1a. Use of Results to Improve Instructional Program:** Comments from the post-graduate surveys were reviewed and some changes to the content of existing courses were initiated based on the survey comments.

## Second Means of Assessment for Outcome Identified Above:

**1b. Means of Assessment & Criteria for Success:** Eighty percent of the graduates of the program responding to a post-graduate survey will indicate that they are employed in a 'directly career related' position.

**1b. Data Results:** We graduated four students last year. Out of those four students, all are currently employed in a 'directly career related' position.

**1b. Use of Results:** We have achieved our objective.

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Computer Science

MS

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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.*

2. Students completing the masters 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 the programs' graduates will identify behaviors or attitudes that will contribute to further learning and success in their discipline on an exit survey.

### 2a. Data Results:

All of the students completing the program indicated that they felt confident and able to perform the tasks required in their field.

**2a. Use of Results:** From student perspective, it is favorable to know that the students feel competent in the field.

## Second Means of Assessment for Outcome Identified Above:

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

All students in the program will be required to submit class assignments, projects, and tests at various stages of their program for their portfolios demonstrating the knowledge and skills they have acquired during their program of study.

**2b. Data Results:** We have collected class assignments and tests at various stages of students program. The data meets the program criterion level.

### 2b. Use of Results:

We are striving to improve our courses from the result of the data. We make sure our students are competent in writing computer program code by end of their second year in the program.

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## Intended Educational (Student) Outcome:

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3. Graduates will be able to analyze a problem and design and implement a solution, which may or may not involve program coding.

## First Means of Assessment for Outcome Identified Above:

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

All students completing the program will complete a thesis in their chosen research area.

### 3a. Data Results:

The graduating students all completed their thesis and presented their work to computer science students and faculty and other member of the university.

### 3a. Use of Results to Improve Instructional Program:

We will work with our students to consider their projects for publications and presentations in conferences.