

# Course Student Learning Outcomes Assessment

**MATH 073L Math Review**

**Created on: 10/22/2013 12:37:00 PM PST  
Last Modified: 03/02/2015 11:25:26 AM PST**

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## **General Information (Course Student Learning Outcomes Assessment)**

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# Standing Requirements

## 📖 Course Description

Students requiring specific math knowledge in courses outside the math department (such as water science surveying physics accounting etc.) will receive individual instruction of mathematical topics based on their individual need.

## 📖 Course Student Learning Outcomes

### MATH 073L Math Review Outcome Set

Outcome	
Outcome	Mapping
Outcome 1 Students will be able to classify and identify different problem types and select suitable problem solving techniques	<b>Institutional Student Learning Outcomes:</b> Act 3, Communicate 1, Communicate 2, Learn 1, Learn 2, Think 1, Think 2, Think 3
Outcome 2 Students will be able to model and solve class appropriate applications in a clear, organized and professional manner.	<b>Institutional Student Learning Outcomes:</b> Act 1, Act 3, Communicate 1, Communicate 2, Communicate 3, Learn 1, Learn 2, Think 1, Think 2

## 2014-2015 Assessment Cycle

### Measurements

#### Outcomes and Measures

#### MATH 073L Math Review Outcome Set

##### Outcome

###### Outcome 1

Students will be able to classify and identify different problem types and select suitable problem solving techniques

▼ **Measure:** Math 0-73L SLO 1  
Course level; Indirect - Survey

**Description of Measurement Tool:** Surveyed students about experience in the Math Study Hall. The survey focused on the overall quality of instruction, study skill improvement, recognizing different types of problems due to help in MaSH, and strengthening problem solving techniques. Students answered no improvement, little improvement, or great improvement.

**Criteria for Success: Individual & Collective Student Criterion:** Individually, success is a report of little or great improvement.

Collectively, success is defined as 70% of the class being individually successful.

**Cycle of Assessment:** This outcome is assessed every year.

For this report, the data was gathered in Fall 2014, collated, analyzed, reported, and discussed in Spring 2015, with recommendations implemented in Fall 2015.

**Who is Responsible for Assessment Activity?:** The Math Study Hall Coordinator is responsible for the assessment.

###### Outcome 2

Students will be able to model and solve class appropriate applications in a clear, organized and professional manner.

▼ **Measure:** Math 073L SLO 2  
Course level; Indirect - Survey

**Description of Measurement Tool:** Surveyed students about experience in the Math Study Hall. The survey focused on the overall quality of instruction, study skill improvement, recognizing different types of problems due to help in MaSH, and strengthening problem solving techniques. Students answered no improvement, little improvement, or great improvement.

**Criteria for Success: Individual & Collective Student Criterion:** Individually, success is a report of little or great improvement.

Collectively, success is defined as 70% of the class being individually successful.

**Cycle of Assessment:** This outcome is assessed every year.

For this report, the data was gathered in Fall 2014, collated, analyzed, reported, and discussed in Spring 2015, with recommendations implemented in Fall 2015.

**Who is Responsible for Assessment Activity?:** The Math Study Hall Coordinator

### Findings

#### Finding per Measure

#### MATH 073L Math Review Outcome Set

## Outcome

### Outcome 1

Students will be able to classify and identify different problem types and select suitable problem solving techniques

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**Cycle of Assessment:** This outcome is assessed every year.

For this report, the data was gathered in Fall 2014, collated, analyzed, reported, and discussed in Spring 2015, with recommendations implemented in Fall 2015.

**Who is Responsible for Assessment Activity?:** The Math Study Hall Coordinator is responsible for the assessment.

#### Findings for Math 0-73L SLO 1

**Summary of Findings:** Recognize/classify different types of problems: 100% (0% little improvement, 100% great improvement)  
Strengthen problem solving techniques: 100% (0% little improvement, 100% great improvement)

Overall: 100%

**Results:** Criteria for Success Achievement Status: Met

**Analysis of Findings:** Looking at the data, all students felt they improved their problems solving techniques and their ability to recognize different types of problems due to the help they received in MaSH. This shows the Math Study Hall is effective and a great resource for students. The number of students who took the survey was small.

**Recommendations:** Encourage instructors to advertise the Math Study Hall as a resource for students to improve their learning, understanding, and study skills in their math courses. Continue to provide faculty, instructional assistants, and student tutors to assist students in the MaSH.

### Outcome 2

Students will be able to model and solve class appropriate applications in a clear, organized and professional manner.

▼ **Measure:** Math 073L SLO 2  
Course level; Indirect - Survey

**Description of Measurement Tool:** Surveyed students about experience in the Math Study Hall. The survey focused on the overall quality of instruction, study skill improvement, recognizing different types of problems due to help in MaSH, and strengthening problem solving techniques. Students answered no improvement, little improvement, or great improvement.

**Criteria for Success: Individual & Collective Student Criterion:** Individually, success is a report of little or great improvement.

Collectively, success is defined as 70% of the class being individually successful.

**Cycle of Assessment:** This outcome is assessed every year.

For this report, the data was gathered in Fall 2014, collated, analyzed, reported, and discussed in Spring 2015, with recommendations implemented in Fall 2015.

**Who is Responsible for Assessment Activity?:** The Math Study Hall Coordinator

#### Findings for Math 073L SLO 2

**Summary of Findings:** Strengthen Math Study Skills: 100% (0% little improvement, 100% great improvement)

Overall: 100%

**Results:** Criteria for Success Achievement Status: Met

**Analysis of Findings:** Looking at the data, all students improved their study skills. This shows the Math Study Hall is effective and a great resource for students. The number of students who took the survey was small.

**Recommendations:**

Encourage instructors to advertise the Math Study Hall as a resource for students to improve their learning, understanding, and study skills in their math courses. Continue to provide faculty, instructional assistants, and student tutors to assist students in the MaSH.

## Overall Recommendations

*No text specified*

 **Plans of Action**

 **Status Reports**

## 2013-2014 Assessment Cycle

### Measurements

#### Outcomes and Measures

### MATH 073L Math Review Outcome Set

#### Outcome

##### Outcome 1

Students will be able to classify and identify different problem types and select suitable problem solving techniques

▼ **Measure:** Math 0-73L SLO 1  
Course level; Indirect - Survey

**Description of Measurement Tool:** Students replied to a survey about their experience in the Math Study Hall.

The survey focused on the overall quality of instruction, study skill improvement, and strengthening problem solving techniques.

**Criteria for Success: Individual & Collective Student Criterion:** Individually, success is a report of little or great improvement.

Collectively, success is defined as 70% of the class being individually successful.

**Cycle of Assessment:** This outcome will be assessed every three years.

**Who is Responsible for Assessment Activity?:** The Math 073L coordinator of record for 2013-2014, Alicia Frost, is responsible for the assessment.

##### Outcome 2

Students will be able to model and solve class appropriate applications in a clear, organized and professional manner.

▼ **Measure:** Math 073L SLO 2  
Course level; Indirect - Survey

**Description of Measurement Tool:** Students replied to a survey about their experience in the Math Study Hall.

The survey focused on the overall quality of instruction, study skill improvement, and strengthening problem solving techniques.

**Criteria for Success: Individual & Collective Student Criterion:** Individually, success is a report of little or great improvement.

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**Cycle of Assessment:** This outcome will be assessed every three years.

**Who is Responsible for Assessment Activity?:** The Math 073L coordinator of record for 2013-2014, Alicia Frost, is responsible for the assessment.

### Findings

#### Finding per Measure

### MATH 073L Math Review Outcome Set

#### Outcome



**Outcome 1**

Students will be able to classify and identify different problem types and select suitable problem solving techniques

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Course level; Indirect - Survey

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**Criteria for Success: Individual & Collective Student Criterion:** Individually, success is a report of little or great improvement.

Collectively, success is defined as 70% of the class being individually successful.

**Cycle of Assessment:** This outcome will be assessed every three years.

**Who is Responsible for Assessment Activity?:** The Math 073L coordinator of record for 2013-2014, Alicia Frost, is responsible for the assessment.

**Findings for Math 0-73L SLO 1**

**Summary of Findings:** There were a total of 53 student responses.

The following are success rates:

- a) Recognizing different types of problems: 83%
- b) Strengthen problem solving techniques: 79%

**Results:** Criteria for Success Achievement Status: Met

**Analysis of Findings:** Looking at the data, most students improved their problems solving techniques.

This shows the Math Study Hall is effective and a great resource for students. The number of students who took the survey was greater than in the past.

Students indicated that the Plato program was less useful in helping them in their course.

**Recommendations:** Continue to provide faculty, instructional assistants, and student tutors to assist students in the MaSH.

Implement further study skill resources and continue conducting a student survey every semester.

Move away from Plato program and implement other effective resources to further learning in MaSH.

**Outcome 2**

Students will be able to model and solve class appropriate applications in a clear, organized and professional manner.

▼ **Measure:** Math 073L SLO 2  
Course level; Indirect - Survey

**Description of Measurement Tool:** Students replied to a survey about their experience in the Math Study Hall.

The survey focused on the overall quality of instruction, study skill improvement, and strengthening problem solving techniques.

**Criteria for Success: Individual & Collective Student Criterion:** Individually, success is a report of little or great improvement.

Collectively, success is defined as 70% of the class being individually successful.

**Cycle of Assessment:** This outcome will be assessed every three years.

**Who is Responsible for Assessment Activity?:** The Math 073L coordinator of record for 2013-2014, Alicia Frost, is responsible for the assessment.

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### Findings for Math 073L SLO 2

**Summary of Findings:** There were a total of 53 student responses.

Overall success rate for Math Study Skills: 78.5%

**Results:** Criteria for Success Achievement Status: Met

**Analysis of Findings:** Looking at the data, most students improved their problems solving techniques and study skills.

This shows the Math Study Hall is effective and a great resource for students. The number of students who took the survey was greater than past years.

Students indicated that the Plato program was less useful in helping them in their course.

**Recommendations:** Continue to provide faculty, instructional assistants, and student tutors to assist students in the MaSH.

Implement further study skill resources and continue conducting a student survey every semester.

Move away from Plato program and implement other effective resources to further learning in MaSH.

### Overall Recommendations

*No text specified*

 **Plans of Action**

 **Status Reports**

## 2012-2013 Assessment Cycle

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 **Measurements**

 **Findings**

 **Plans of Action**

 **Status Reports**