# Learning Outcomes Assessment

**Assessment Type:** General Learning Outcome  
**Year/Term:** 2009 / 2  
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**Program:** Mathematics  
**Prefix / Course Number:** MATH / 212

## High Impact Practice (HIP):
- [ ] First Year Experience
- [ ] Leadership Training
- [ ] University Writing Requirement
- [ ] Undergraduate Research
- [ ] Service Learning / Community-Based Learning
- [ ] Performance
- [ ] Capstone Project

## Learning Outcome: Communication

**Assessment Method/Tool:** Rubric  
**Measurement Scale:** 1 - 3  
**Sample Size:** 8

<table>
<thead>
<tr>
<th>Metric</th>
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<tbody>
<tr>
<td>Developing (# of students)</td>
</tr>
<tr>
<td>#</td>
</tr>
<tr>
<td>1. Clearly focuses and logically organizes communication</td>
</tr>
<tr>
<td>2. Presents convincing evidence</td>
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<td>3. Edits carefully and accurately</td>
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<tr>
<td>4. Employs graphics, media, and source materials appropriately and ethically</td>
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<table>
<thead>
<tr>
<th>Averages:</th>
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<tbody>
<tr>
<td>(based on student sample size) 8</td>
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<tr>
<td>2.3</td>
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## Benchmark:
- **85%** Institutional benchmark goal for percent of students to meet "Adequate" or "Proficient" levels

## Percent Achieving Benchmark:
- **71.9%** Actual percent of students meeting "Adequate" or "Proficient" levels

(This institutional benchmark does not take into account the level of the course and the preparedness of the students in the sample. Results will help the institution understand the learning needs of participating students.)
End of term research project studying an aspect of the EOU campus community. Students collected and analyzed data and then reported their findings both orally and in a written report.

In Math 212, the student studied the basics of study design and data analysis. This project was designed to help them apply what they had learned from lecture and the textbook. Their communication of the results of their project was evidence of their learning and ability to apply their learning to real world issues and settings.

The results indicate that these students are just beginning to understand how statistical studies can be used to ask questions about our community and how to effectively communicate their findings.

For most of these students, this was their first exposure to statistics applied to real world studies. It was also their first attempt at communicating what numerical data say about an aspect of their community. For most of them it was a positive and illuminating experience. An experience that will inform the way the use math to communicate about their world and community.

Student Samples (optional): Developing Example (web address) Adequate Example (web address) Proficient Example (web address)

NOTE: Student names cannot be used on the samples.