Assessment Results

Mathematics Competency

Courses in the mathematics competency curriculum provides students with basic skills in mathematics and logic. The following are the three Student Learning Outcomes (SLOs) in mathematics competency. Students who have completed the General Education (GE) mathematics competency can:

- Correctly use/interpret mathematical notation and terminology to solve problems.
- Apply general concepts and principles of mathematics to solve various kinds of problems (e.g., use general formulas, recognize general patterns in a collection of problems, apply rules of logic in the process of problem solving).
- Model/solve problems related to applications that describe various phenomena in nature and society.

Sample

<table>
<thead>
<tr>
<th>Courses</th>
<th>Sections</th>
<th>Total Students</th>
<th>Student Artifacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>35</td>
<td>1886</td>
<td>1886</td>
</tr>
</tbody>
</table>

Sample Profile

- 66% of the students are female
- 88% are Freshman or Sophomore
- 33% are rural students
- Average weighted HS GPA is 3.7
- Average cumulative GPA is 3.3
- Average age is 19.3 years

Students Sampled by Course

- SLO 1: 83%
- SLO 2: 70%
- SLO 3: 63%

The Percentage of Students Scoring 'Meets Expectation' or Above in Fall and Spring

- SLO 1: Fall 2020 = 83%, Spring 2021 = 84%
- SLO 2: Fall 2020 = 68%, Spring 2021 = 73%
- SLO 3: Fall 2020 = 62%, Spring 2021 = 64%

Statistical Analysis Results

- Math 1050
- Math 1065
- Math 2228

Statistically significant difference in average exam scores of students, but small effect size.