

SUNY GENESEO

GENERAL EDUCATION ASSESSMENT REPORT

Please type in the shaded areas of the form. Save the completed form, making sure to include your Gen Ed attribute (R) in the filename, and deposit the file in the Assessment InBox by navigating to \\files\inbox\admin and dragging the file into the folder named "assess". (Note that you cannot open the folder; access is restricted.) Place ancillary documentation such as charts and graphs in a separate file or files. Name these as appropriate, but again, please include the Gen Ed attribute (N).

GEN ED AREA: **Numeric/Sumbolic Reasoning**

ASSESSMENT PERIOD COVERED: 2005-2006

DATE SUBMITTED: May 2006

| Learning Outcome | Information | | | Results | | | |
|---|-------------------------------------|-------------------|----|-----------------------|---------------------|-------------------------|-------------------------|
| | Date of Assessment Semester/Year | Students Assessed | | % Exceeding Standards | % Meeting Standards | % Approaching Standards | % Not Meeting Standards |
| | | n | % | | | | |
| Students will demonstrate the ability to interpret and draw inferences from mathematical or other representational models such as formulas, graphs, tables, and schematics. | Spring 06 | 539 | 63 | 37 | 39 | 18 | 6 |
| Students will demonstrate the ability to represent mathematical information or logical relations symbolically, visually, numerically, and verbally. | Spring 06 | 539 | 63 | 39 | 40 | 15 | 6 |
| Students will demonstrate the ability to employ quantitative or symbolic methods such as arithmetic, algebra, geometry, statistics, algorithms, or logical expressions to solve problems. | Spring 06 | 539 | 63 | 40 | 37 | 16 | 7 |
| Students will demonstrate the ability to estimate and check mathematical or other symbolic results for reasonableness. | Spring 06 | 539 | 63 | 38 | 37 | 20 | 5 |
| Students will demonstrate the ability to recognize the limits of mathematical, statistical, or other symbolic methods. | Spring 06 | 539 | 63 | 40 | 38 | 15 | 7 |

n = total number of students assessed

% = assessment sample size expressed as a percentage of total number of students who took Gen Ed courses in this area during the semester assessed

WHAT WERE THE MAJOR FINDINGS OF THIS ASSESSMENT?

For this round of assessment, faculty assessors used the new SUNY SCBA learning outcomes in Mathematics, expanded slightly (see Geneseo's SCBA Assessment Plan) to accommodate courses in Computer Science and Philosophy (formal logic). Student performance was consistently high across these outcomes.

IN LIGHT OF THESE FINDINGS, WHAT ACTIONS MIGHT BE TAKEN TO IMPROVE TEACHING AND LEARNING?

Faculty who teach Numeric-Symbolic Reasoning courses may want to focus on students in the "approaching" category. As a group, they might discuss strategies for moving some portion of these students into the "meeting" category.

DO YOU THINK THAT OTHER GEN ED AREAS MIGHT LEARN SOMETHING VALUABLE FROM YOUR ASSESSMENT?
