1. Leadership.

A committee chaired by Maria Blon is formed to implement the Departmental General Education Assessment Plan, prepare assessment tests, and analyze student learning outcomes. The committee consists of the department chair and five full time faculty.

2. Courses Subject to General Education Assessment.

38104, 38105, 38106, 38107, 38108, 38109, 38110, 38112, 38113, 38205, 38206, 38207, 38208, 38209

These courses will be assessed once every three years. All sections of these courses will be assessed.

3. The Objectives of Student Learning Outcomes in Mathematics.

Student will show competence in the following quantitative reasoning skills:

- Arithmetic;
- Algebra;
- Geometry;
- Data analysis; and
- Quantitative reasoning.

4. Assessment Measure.

A departmental General Education Assessment Test section will be used either as a portion of teacher's own final exams or as an independent test for any course to be assessed. The assessment test covers the following five Knowledge and Skill specified for the Student Learning Outcomes for Mathematics: arithmetic, algebra, geometry, data analysis and quantitative reasoning.

There are total of 15 problems in the test. 3 problems for each area. The criteria for determining student performance in meeting the Learning Outcomes in each area will be following:

- Exceeding standard: 3 correct answers (100%);
- Meeting standard: 2 correct answers (67%);
- Approaching standard: 1 correct answer (33%);
- Not meeting standard: 0 correct answer (0%).
Sample tests will be studied by all full time faculty and discussed in department meetings. The actual tests must follow the standard set by these discussions. A final version of the sample test will be provided to adjunct teachers. Based on student performance on these tests, some adjustments may be necessary for future tests.

Other measures of assessments (using portfolio, projects, etc.) may be introduced in the future.

5. Analyzing Student Learning Outcomes.

After final exam, all the assessment tests will be collected. For evaluation, a random sampling of at least 20% will be selected by the committee. The results will be recorded to show the percentage of students exceeding, meeting, approaching and not meeting the required learning outcomes for mathematics.

The summarized data will be forward to the VPAA and the General Education Committee of SUNY Orange.

6. Improving Student Learning Outcomes.

The committee will provide its analysis to all faculty. These results will be further discussed at department meetings at the beginning of the following semester. Proper changes should be made to improve student learning outcomes. The changes may include adjusting the course objectives and outlines, reallocating teaching times, using more teaching tools, and changing text books.


The departmental General Education Assessment Plan should be approved by the majority of The Mathematics Department's full time faculty.

This plan may be modified based on the outcome of the assessment tests or input from the VPAA, or input from the General Education Committee of SUNY Orange. Any change should be approved by the majority of full time faculty of the department.

8. Time Frame

Spring 2002: The departmental General Education Assessment Committee will prepare a sample assessment test and get its approval at department meetings. Then a real assessment test will be prepared.

Fall 2002: Administer assessment tests to all sections of courses listed in item 2