Mathematics/Applied Statistics Cooperative Proposal:

**Brief Description:** The program integrates a six-month work experience into the college program of students in mathematics and statistics. Students will complete the major in Mathematics and the minor in Applied Statistics, with most coursework in those fields finished before the co-op. The six-month co-op will be planned with an employer to provide full-time, paid work, in which students apply their skills in statistics. No tuition is paid during the co-op semester. Students should apply after at least one semester at SUNY Oswego and at least a year before the co-op.

**Requirements for Admission** to the Co-op in Mathematics/Applied Statistics:

1. Grades of B- or higher in
   - MAT 158 Introduction to Statistics A, or
   - MAT 258 Introduction to Statistics B, or
   - MAT 318 Statistical Math for Scientists,
   and in one course in the Core Requirements for the
   Mathematics Major – B.A., taken at Oswego.

2. At least 15 sh completed at Oswego, with an overall GPA of at least 3.0.

3. A plan, worked out with an adviser, under which these courses will be completed before the co-op:
   - MAT 210 Calculus I,
   - MAT 220 Calculus 2,
   - MAT 215 Introduction to Discrete Mathematics,
   - MAT 230 Matrix Algebra,
   - MAT 240 Multivariable Calculus,
   - MAT 354 Mathematical Statistics A,
   - CSC 212 Principles of Programming,
   and one of MAT 258 or MAT 318,
   and three courses selected from:
   - MAT 351 Introduction to Forecasting,
   - MAT 352 Statistical Quality and Process Control,
   - MAT 353 Mathematical Modeling,
   - MAT 357 Applied Regression Analysis,
   - MAT 358 Design of Experiments,
   - MAT 379 Environmental Statistics,
   - MAT 454 Mathematical Statistics B.

Admission is to be at least 12 months before the co-op, and no more than three of the above courses can be left for the semester before the co-op. At least one semester is to be at Oswego after the co-op.
Grade and Progress Requirement: All mathematics courses listed above, and CSC 212, must be finished before the co-op with a grade point average of 2.8. The student must maintain an overall Oswego GPA consistent with expectations of prospective employers.

Co-op Requirements:

A. The course requirements are those of the Mathematics Major – B.A. Degree or the Applied Mathematics Major – B.S. Degree, and the Applied Statistics Minor.

Additional requirements:
- MGT 494 Seminar in Career Planning and Job Searching, 1 sh, or an approved equivalent course, to be completed before the co-op,
- MAT 499 Independent Study, 1 sh, to be completed after the co-op, including a presentation and a written report based on the co-op.

B. An approved half-year co-op.

Notes:

1. To be able to complete the statistics and mathematics requirements in a timely fashion, a student should have completed either MAT 158 and MAT 258 (Introduction to Statistics A and B), or MAT 318 (Statistics in the Sciences), during freshman year, together with at least MAT 210 (Calculus 1).

2. Although employers are generally eager to have good students placed with them in a co-op, a student needs to be accepted by an employer. Placement cannot be guaranteed by SUNY Oswego.

3. Financial aid and scholarships during a co-op semester should be addressed with a college financial aid advisor.

4. A student does not earn credit for the co-op. To finish the Mathematics/Applied Statistics Co-op in four years, the student will need to earn the credits normally earned during that semester in other ways, for example in AP courses or summer courses.

5. The student's transcript will record the co-op.

The above will appear in the college catalog, with Mathematics Department programs, when the program is approved.