

Glassboro State College  
Department of Mathematics

Proposal for a Course Title Change

It is proposed that the title of the course Introduction to Probability and Statistics be changed to Introduction to Probability and Statistics I. This proposal is made in conjunction with a course proposal, which in essence proposes the expansion of Introduction to Probability and Statistics into a two-course sequence, Introduction to Probability and Statistics I and II. If the course proposal is approved, then the name of the original course has to be changed to indicate it is now the first course in a two-course sequence.

Proposals

Planning NO  
SCC#  
②  
4 Proposals

NO  
SCC

Glassboro State College  
Department of Mathematics

① The proposed new mathematics department offerings entitled  
Freshman Honors Mathematics, Sophomore Honors Mathematics,  
②  
③ Junior Honors Mathematics and Senior Honors Mathematics  
④  
is intended to extend the departments offerings in the area of  
electives for the talented student of mathematics.

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This proposal anticipates that the new course Freshman Honors Mathematics, will have its first scheduling for the second semester of the 1973-74 academic year.

The department members have excellent qualifications to conduct the new courses, and the introduction of these offerings have been carefully considered with respect to general education offerings.

John Sooy  
Chairman, Department of Mathematics

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OF PROFESSIONAL STUDIES

GLASBORO STATE COLLEGE  
Glasboro, New Jersey

Course Proposal

April 1, 1973

I. Identification of the Proposal

- A. Names - Freshman Honors Mathematics ✓  
Sophomore Honors Mathematics  
Junior Honors Mathematics  
Senior Honors Mathematics
- B. Sponsors - Dr. John Gocy, Mr. Donald Stone, Dr. Francis Masat, and Dr. Thomas Osler of the Mathematics Department.

II. Statement from the Sponsors

In this proposal, we recommend the creation of four courses, one for each of the undergraduate years, to supplement the background of superior students. These courses complement the work which the students have already undertaken by increasing the depth of their knowledge in many mathematical areas. Only students who have demonstrated exceptional mathematical ability in previous courses will be admitted. By offering these courses, we hope to stimulate our best students to realize their full mathematical potential.

III. Outline of the Proposal

A. Essence of the Proposal

1. Course titles: FRESHMAN HONORS MATHEMATICS  
SOPHOMORE HONORS MATHEMATICS  
JUNIOR HONORS MATHEMATICS  
SENIOR HONORS MATHEMATICS
2. Semester hours of credit granted: 2 per course.
3. Course level and prerequisites: undergraduate.  
Students who have demonstrated exceptional mathematical interest and mastery will be admitted after consultation with the professor.
4. Current curricula pattern into which it falls: elective.

B. Details of the Proposal

1. Specific objectives of the course:

- a. To provide students with superior mathematical skill the opportunity to examine in greater depth the most important topics they have encountered in recent mathematics courses.
- b. To provide our superior students with the opportunity to explore areas of mathematics which are not usually given in traditional undergraduate courses, but which are likely to be of future use to the student.
- c. To provide our superior students with more advanced training which should assist them in such competitive examinations as the Graduate Record Examination and the Actuarial Examinations.
- d. Students at large universities often take a few graduate mathematics courses while they are yet undergraduates. Students at smaller colleges, such as Glassboro, often lack this opportunity. By making these courses available, we hope to prepare our most gifted students so that they can compete in graduate school with students from large universities.
- e. To provide a means for stimulating our superior students by generating interest and enthusiasm. In this way we hope that our students can begin to realize their full mathematical potential.

2. Scope of the course: The topics covered in the course as well as the methods used to teach the course will depend upon the particular interests of the students and the professor in charge. The choice of topics will be determined by:

- a. The courses which the students have taken.
- b. The material which appears to be of significant use to the student in his future employment, in nationally competitive examinations, and in future graduate education.
- c. The material which appears to stimulate the students to gain greater mathematical maturity and to realize their own potential as students of mathematics.

3. Teaching methods: Since gifted students are concentrated in this course, it seems that a variety of teaching methods should be used. These include lectures, classroom discussions, reading assignments, presentations by students, etc. The methods selected will depend upon the particular techniques which the individual instructor handles best, and those which experience shows will stimulate the students to do their best work.
4. Semester when these courses will be offered: The Freshman, Sophomore, and Junior Honors Mathematics courses will be offered in the Spring Semester. The reason for this is that the instructor can then begin by building depth into the material which the students learned during the fall. The Senior Honors Mathematics course will be given in the Fall Semester to allow the students to master more material for competitive national examinations.

C. Rationale.

Honors courses in mathematics are not uncommon at institutions which have an undergraduate major in mathematics. A student who elects to take all four Honors courses will be adding eight credits to his total number of college credits, and this should not materially detract from his capacity to take courses in other departments. We feel that this is an important service which must be provided for our gifted students, since more traditional mathematics courses often do not utilize the full mathematical talents of such students.

D. Consultation

The proposal has been reviewed and approved by members of the Mathematics Department Curriculum Committee.