SENATE PAPERS

27-B

Papers S.360b-

Attached

(Mathematics—
New
Courses)

UNDERGRADUATE CURRICULUM COMMITTEE's PROPOSAL OF MATHEMATICS COURSES

The courses proposed by Math at the 100 level represent an attempt by the Department to broaden its offering of service courses for students not proceeding in Mathematics for the Majors program. Three of the courses, Math 100, 150 and 190 are aimed at specific groups. Math 180 would be a course of general interest both to Science students and to students in the Arts.

Math 405 borders on pure mathematics and computing science but would not infringe on any new computing program.

Support for the offering of these various courses has been obtained and documented by the department from the various groups to which they are directed.

The concern that the introduction of five new courses would have serious budgetary implications was conveyed by Dr. Barlow to the Math Department on March 13th. The Department has assured Dr. Barlow that no additional teaching faculty, other than that of the Statistician already authorized, would be required by the Department for the mounting of these courses.

The courses were all considered by the Undergraduate Curriculum Committee at its meeting of March 31st and approved.

B.L. Funt

Approved by the Faculty of Science at its meeting of April 20, 1970

FACULTY OF SCIENCE

NEW COURSE PROPOSAL

I   CALENDAR INFORMATION

Department: Mathematics   Course Number: 100-3 Title: Survey of
                                                            College Mathematics
Sub-title or Description:
This course is designed for students with a relatively weak
mathematical background. It will introduce them to applications
of college mathematics and prepare them for the standard first year courses.

Credit Hours: 3. Students with Math 12   Vector Description: (3-1-0)
(B.C. High Schools) or a Mathematics course numbered 100 or above may not take
Pre-requisite(s):   this course for credit.
Math 11 (B.C. High Schools) or permission
of the Department.

II ENROLMENT AND SCHEDULING

Estimated Enrolment: 35 per offering

Semester Offered (e.g. Yearly, every Spring; twice yearly, Fall and
                        Spring):

Yearly: Fall semester or as demand indicates

When course will first be offered: Fall 1970

III   JUSTIFICATION

A. What is the detailed description of the course including differentiation
    from lower level courses, from similar courses in the same department
    and from courses in other departments in the University?

    The course will include elementary set theory and logic, analytic geometry,
    "intuitive" calculus and elementary probability and descriptive statistics.
    It will thus contain brief introductions to topics covered in standard
    first year courses. However the overlap with any particular course is
    very small.

B. What is the range of topics that may be dealt with in the course?

    Principally those in A plus any topic necessary to the appreciation
    of these topics.

C. How does this course fit the goals of the department?

It is a service course and is designed to enable students to profit from the rest of the department's offerings.

D. How does this course affect degree requirements?

N/A.

E. What are the calendar changes necessary to reflect the addition of this course?

New entry.

F. What course, if any, is being dropped from the calendar if this course is approved?

None.

G. What is the nature of student demand for this course?

Some students have a need or desire for college level mathematics but are insufficiently prepared to profit from the other offerings of the department.

H. Other reasons for introducing the course.

Suggested by members of several departments in the Faculty of Arts.

IV BUDGETARY AND SPACE FACTORS

A. Which faculty will be available to teach this course?

All faculty members of the Department of Mathematics.

B. What are the special space and/or equipment requirements for this course?

None.

C. Any other budgetary implications of mounting this course:

None.

APPROVAL - Faculty Undergraduate Curriculum Committee: MARCH 31, 1970

Faculty: April 20, 1970

Senate: