

MATHEMATICS DEPARTMENT

FACULTY

Robert F. Arnold, *Department Chairman*

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Mathematics and related subjects play important dual roles in our culture. On the one hand mathematics is the study of pure thought in its own right; on the other, it furnishes a language for the expression of ideas in the various sciences. The courses offered by the department are designed to develop an appreciation of both roles, particularly for those who plan to continue in study, to teach, or to use mathematics in research or in applications in the various fields of pure and applied science. Certain courses are also suitable for students in other areas. See *Degrees and Credentials—General Education Requirements*.

HIGH SCHOOL PREPARATION

Two years of algebra and courses in geometry and trigonometry or a sequence of mathematics courses containing their equivalents are prerequisite to entry into either a major or a minor program in mathematics. Such study should be completed before entrance into the university.

DUPLICATION OF COURSES

No credit will be allowed for Math 1 if taken after completion of Math 4; no credit will be allowed for Math 4 if taken after completion of Math 71 or 75; no credit will be allowed for Math 5 if taken after completion of Math 72 or 75. No student transferring credit in calculus will receive more than a total of 12 units of credit for equivalents of Math 75, 76, and 77.

ADVANCED PLACEMENT CREDIT

See *General Information—Advanced Placement*

BACHELOR OF ARTS DEGREE

The department offers a program leading to the bachelor of arts degree. The program consists of a basic set of required courses giving a strong, well-rounded mathematical background, with an opportunity to elect additional courses according to individual interests. Courses are offered in the following areas; preparation for graduate study in mathematics, teaching mathematics, application in industrial or related fields and statistics and probability. The attention of those interested in teaching mathematics in the elementary school is directed to the mathematics minor program.

MATHEMATICS MAJOR

	<i>Units</i>
Math 75, 76, 77.....	12
Math 151, and 152 or 124	6
Math 171, and 172 or 128	6
Elect from Math 107, 116, 121, 161, 162, 165, 181	3
Additional mathematics courses to be approved by the department	12-13
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Note: Each student must consult his or her adviser at least once a semester. A student may orient the baccalaureate degree program in one of several directions by the proper selection of elective courses in consultation with an adviser in one of the following areas:

- Pure Mathematics
- Applied Mathematics
- Pre-College Teaching
- Statistics and Probability
- Computer Oriented Program