DEPARTMENT OF MATHEMATICS

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Programs of the Department

Students in the Department of Mathematics are encouraged to develop superior thinking and problem-solving skills in preparation for mathematics-based careers and continued study. Our mathematics programs prepare students for a range of careers in education, industry and government. The mathematics major is also recommended for students planning for graduate or professional school.

The Department of Mathematics offers the following programs:

• A major in Mathematics, in which there are four concentrations.
• A minor in Mathematics, designed to enhance major programs to which mathematics is readily applied.

Major in Mathematics

The Mathematics major has four areas of concentration from which to choose:

• The Mathematics Secondary Education Concentration, offered in conjunction with Towson UTeach (http://www.towson.edu/fcsm/departments/uteach), is designed for students who wish to become certified to teach mathematics in secondary schools.
• The Pure Mathematics Concentration emphasizes abstract mathematics and provides a strong background in mathematical theory and prepares students for positions as researchers or analysts as well as for graduate study.
• The Actuarial Science and Risk Management Concentration, designated as a Center of Actuarial Excellence by the Society of Actuaries, provides students a solid background in mathematics along with specialized knowledge leading to career opportunities in the actuarial and financial professions.
• The Applied Mathematics Concentration provides a strong background in the foundations of applied mathematical methods and is designed for students who wish to apply mathematics to problems in business and industry.

The Bachelor of Arts degree may be earned by adding the intermediate level of a foreign language or its equivalent to the major course requirements.

Students should enroll in the mathematics course which is most relevant to their program(s) of study and based on their results on the Mathematics Placement Test. The Mathematics Placement Test is used to place students into the most appropriate mathematics course. See the catalog policies on Placement Testing (http://catalog.towson.edu/undergraduate/admissions/undergraduate-admissions/placement-testing) or the Mathematics Department Placement Testing Information (https://www.towson.edu/fcsm/departments/mathematics/resources/placement) for additional information and access to the assessment.

Course Prerequisites

The department strictly enforces prerequisites for all mathematics courses.

Policy on AP Mathematics Credit

For the general policy on Advanced Placement in Mathematics, please visit the Admissions Office's Advanced Placement Credit information (http://catalog.towson.edu/undergraduate/admissions/undergraduate-admissions/advanced-placement) site.

Courses/Units in Residence

Only courses approved by the Department of Mathematics may be applied to a major or minor program offered by the department. If students submit mathematics units that are more than five years old at the time of admission or readmission, the chair, after reviewing these records, may require that some courses be repeated or a new course be completed.

Please see the catalog pages for each program offered by the department for any specific transfer credit restrictions.

• Major in Mathematics with concentrations in:
  • Pure Mathematics (http://catalog.towson.edu/undergraduate/fisher-science-mathematics/mathematics/pure-mathematics)
  • Applied Mathematics (http://catalog.towson.edu/undergraduate/fisher-science-mathematics/mathematics/applied-mathematics)
  • Actuarial Science and Risk Management (http://catalog.towson.edu/undergraduate/fisher-science-mathematics/mathematics/actuarial-science-risk-management)
  • Minor in Mathematics (http://catalog.towson.edu/undergraduate/fisher-science-mathematics/mathematics/mathematics-minor)

Departmental Policies

Core Curriculum Requirements in Mathematics and Placement Test Information

Students should consult those portions of this catalog describing their major and minor programs to see whether specific mathematics courses are required or recommended.

For a comprehensive list of courses that satisfy the Core Curriculum requirement for Mathematics, please visit www.towson.edu/core.