

Mathematics

1. General Overview

Theoretical and applied mathematicians are teaching 160 students in an optimal environment equipped with state-of-the-art facilities, including a computing room and an applied mathematics room. We provide a wide variety of international exchange programs, including the ones in cooperation with Towson University and University of Maryland at Baltimore County. We emphasize the importance of professional competence, honesty, and service spirit.

2. Educational Goals/Objectives

We train students to be able to mathematically remodel and analyze natural and social phenomena so that they can solve engineering and social-science problems in a creative and rational way. More specifically, the departmental objectives can be summarized as follows:

- Providing a wide range of and in-depth mathematics subjects, helping those who plan to proceed to graduate school
- Producing good mathematics teachers
- Helping students who plan to seek a career in such areas as information security, life science, and banking industry
- Providing instructions on general-purpose mathematics-related application programs
- Encouraging practical and creative applications of mathematics

3. Areas of Specialization and/or Course Titles

- Analysis: Calculus, Set Theory, Analysis, Differential Equations, Complex Analysis
- Algebra: Number Theory, Linear Algebra, Modern Algebra, Applied Linear Algebra
- Geometry and Topology : Geometry, Differential Geometry, Topology
- Applied Mathematics: Computer Programming, Combinatorics, Mathematical Statistics, Numerical Analysis, Cryptology, Financial Mathematics

4. Career Opportunities/Job Situation

Mathematics is so fundamental in a wide range of public spheres that our graduates can find their jobs many different social sectors: theoretical and applied mathematics, statistics, information technology, engineering, economics, and business administration. More specifically, they find jobs in the following areas: education (secondary school, private academy), information security (encryption, security) financial area (insurance companies, banks, stocks broker), IT (computer, telecommunications), other professions (certified public accountant, certified public tax accountant, actuary), graduate school (mathematics, statistics, information security, economics, business administration), etc.

5. Related Licenses

Class II Teacher's License in Mathematics for Secondary School, Actuary, Certified Public Accountant, Certified Public Tax Accountant, etc.