## Department of Mathematics



Degree Requirements
Undergraduate students are required to take 2 -year courses in all of the following areas algebra (including linear algebra), calculus, and geometry. Modern mathematical areas such as differential equations, probability and statistics, and numerical analysis, are also included in our curriculum. At the graduate level, students are expected to participate in at least one research group led by faculty. Our feature research groups include differential geometry, number theory, optimization, discrete mathematics, statistics, numerical analysis, and mathematical educations.

Career Prospects

- Further Study: pursue higher studies in Taiwan or abroad.
- Workforce: educational administrative officers secondary school teachers, text-books editors in educational contexts; or engaged in information technology, biological technology, financial management, or actuarial industries, etc.


Feature of the Curriculum
Being a leading university that has trained perspective high school teachers for several decades, we have a very strong research group in mathematical education. Our department is also expected to join the International Baccalaureate program to train teachers with bilingual ability. Additionally, we offer a program that combine mathematics with scientific computations. Coding theory, cryptography, mathematical imaging, and machine learning can find roots in analysis, algebra, and geometry. Computer-based knowledge is immersed into traditional classrooms even in basic courses such as calculus, linear algebra, and discrete mathematics. Students are required to be able to code in at least one popular programming language such as C, Fortran, and Python.



