

Graduated Students can apply to ...

- Computer information and software firms
- Banks, Auditing Companies
- Financial service and investment management firms
- Data Analyzing Firms
- Statistical Associations
- Actuary Firms
- Graduate Programs in Mathematics or Applied Mathematics
- Academic institutions and research institutes
- Educational Institutions

Some of our graduated students are working...:

- in Adobe Systems Incorporated
- in Software companies
- in Web-Designing companies
- in Sebat Educational institutions
- in several banks
- in universities

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**APPLIED
MATHEMATICS & INFORMATICS**



Ala-Too International University

Mathematics is classified with both the humanities and the sciences. Its position among the humanities is based on the study of mathematics as one of the liberal arts for more than two thousand years. Still an expanding subject, mathematics offers more new and challenging frontiers than at any time in its long history - with many new fields, requiring new techniques and ideas for exploration. The place of mathematics among the sciences is well founded. The natural sciences have invariably turned to mathematics for techniques needed to explore the consequences of scientific theories. In the last few decades social scientists have increasingly found higher mathematics of value in their training and research.

Our mission, as the department of applied mathematics and informatics, is to provide quality education not only in pure mathematics but also in applied mathematics, especially in information technology, software programming, mathematical modeling and simulation and related fields to expand knowledge in these fields. We focus our attention on the individual student and endeavors to guide him or her in developing intellectual curiosity, precision of thought and logical reasoning, as well as increasing intuitive thought, creativity, independent thinking and the ability to utilize technology in the field of mathematics. To carry out these aims, highly advanced skills in computer operations are being taught.

The department of applied mathematics and informatics offers a four-year undergraduate major program with B.S. degree that has emphasis on learning programming languages, studying algorithms and data structures; using the software and hardware means of computer science and mathematical software; studying mathematical logic and other fields.

Although job opportunities have varied with the changes in the national economy, in recent years graduating math majors have obtained employment in a variety of jobs in business, industry, programming agencies and also have obtained teaching positions at the high school level. Others have continued their educations at the graduate level in mathematics and other fields in Kyrgyzstan and abroad as well.



- Students can apply to our department who...:**
- are good at mathematics and informatics
 - are interested in mathematics, computer science, or information technology
 - are interested in software programming
 - are interested in banking
 - are interested in cryptography
 - want to be mathematics or computer science teacher

- in our department we teach...:**
- major mathematics courses:**
- mathematical analysis (calculus, advanced calculus, numerical analysis, complex analysis)
 - linear algebra & analytic geometry
 - differential equations (ordinary and partial)
 - probability & statistics
 - optimization theory
 - number theory
 - game theory
 - functional analysis
 - topology

- major informatics course:**
- algorithms & programming (python, java)
 - web technologies
 - applied mathematical software (matlab)
 - database
 - computer architecture, networks, graphics
 - computation theory
 - operating systems
 - artificial intelligence
 - information security (cryptology)