Arizona State University (Tempe campus)

Computational Mathematical Sciences, BS

Study details

Course type: Bachelor's degree
Degree: Computational Mathematical Sciences, BS LACMSBS
Study mode: Full time
Duration: 48 Month

Cost of study

Cost : 35 430 USD
Reg. fee : 85 USD
Scolarship :
Insurance : 2 765 USD

Intake/s

Jan/May/Aug

Requirements

Academic requirements

First-year students must:

- Have a 3.00 grade point average (GPA) (a "B" or better where "A"=4.00) from a secondary school. Some ASU programs may have higher admission or English proficiency requirements and may consider a minimum ACT or SAT score.
- Must have three years of high school coursework. (If you are currently in high school, ASU needs to see 9–11 grade coursework. If you have completed high school, ASU needs to see 10–12 grade coursework.)
- Must have and present a completed high school diploma or certificate.

Conditional admission

ASU may offer conditional undergraduate admission to international applicants to an on-campus program who meet the academic (aptitude) requirements but who are not proficient in English. This offer of conditional admission will give you time to improve your English proficiency before you start classes at ASU. Your conditional admission offer is good for up to three semesters, during which time you must meet one of these requirements to begin your ASU experience.

Competency requirements

International students who completed high school outside the U.S. are required to meet the following competency requirements:

- Math: four years (algebra I, geometry, algebra II and one course requiring algebra II as a prerequisite).

- Laboratory science: three years total (one year each from any of the following areas are accepted: biology, chemistry, earth science, integrated sciences and physics).

Provide evidence of English language proficiency (TOEFL 61)

Accommodation

Provided by partner agencies

Speciality
STEM-OPT for international students on F-1 visas

This program may be eligible for an Optional Practical Training extension for up to 24 months. This OPT work authorization period may help international students gain skills and experience in the U.S. Those interested in an OPT extension should review ASU degrees that qualify for the STEM-OPT extension at ASU's International Students and Scholars Center website.

The OPT extension only applies to students on an F-1 visa and does not apply to students completing a degree through ASU Online.

Additional information

Program description

This BS program in computational mathematical sciences is a fusion of mathematics, science and computing. Students in this program learn how to translate science and engineering problems into mathematical problems and solve them using computing algorithms.

Students develop strong problem-solving, analytical and programming skills as they work across diverse areas of science and mathematics. They have the opportunity to work with applied scientists in associated fields such as cancer modeling, seismic data interpretation, environmental modeling and weather forecasting, all of which involve computational mathematical sciences.

Concurrent program options

Students pursuing concurrent degrees (also known as a “double major”) earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

Accelerated program options

This program allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an accelerated bachelor's plus master's degree with:

- Mathematics, MA

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master’s during the junior year of their bachelor's degree program.

Global opportunities
Global experience

Students gain valuable experience through study abroad programs. They can tailor their program to their unique interests and skill sets, and gain hands-on experience. Whether in a foreign country, in the U.S. or online, students are able to build communication skills, are challenged to adapt and persevere, and are exposed to differences, enhancing their ability to work with diverse groups of people.

Each of the more than 300 Global Education program options available around the world provides students with the opportunity to develop a valuable skill set that can give them an advantage in their career, as well as personal enrichment.

Career opportunities

According to Research.com, mathematics and computer science rank among the top 25 college majors in terms of salary and job growth. The computational mathematical sciences program brings these disciplines together.

A bachelor's degree in computational mathematical sciences offers graduates many career options, including in:

- business
- computer technology
- engineering
- medical research
- teaching and education