

BACHELOR of SCIENCE

COMPUTER SCIENCE

Connect to the Future

Computer systems power our world. From engineering to gaming, marketing to mobile technology, the complexities and opportunities are endless and constantly evolving. Students become specialists who are equipped to influence and drive the technology of tomorrow.

BSCS is a four-year undergraduate degree that prepares well-rounded specialists who are able to think critically and creatively, learn independently, work collaboratively, and adapt quickly to challenges. Graduates emerge as lifelong learners with a wide range of experience, ready for employment in a competitive market or graduate study in a variety of fields.

BSCS in Numbers

100%

of alumni are employed or continuing their studies

71%

of alumni work in the IT field

12

IT companies were involved in 2019 capstone projects, providing real-life problems, co-supervision, & access to cutting-edge technologies

65%

of current students work full or part time or as interns—the majority in the IT field

Explore the Possibilities

CAREER OPPORTUNITIES

- Software engineering
- Data science
- Game development
- Mobile development
- IT startups
- Security management & cryptography
- Database specialist
- Mathematical modeling

GRADUATE STUDY OPPORTUNITIES

- Computer Science
- Applied Mathematics
- Big Data Engineering
- Business Administration
- Bioinformatics
- Engineering Science

What *to* Expect

BSCS is an interdisciplinary degree that applies the theoretical rigor of mathematics and computational methods to real-life scenarios. Courses cover a range of topics, including artificial intelligence, database management, cryptography, and computer graphics.

Students take core courses that provide a strong foundation of knowledge. Elective courses allow students to pursue one of two tracks or design their own program of specialized study to match their interests and advance their careers. In addition, the curriculum includes general education courses to develop a solid foundation of general knowledge, perspectives, and skills for life.

Pursue a general degree or concentrate in one of two tracks:

General Degree

- Work with an advisor to select a set of computer science electives supplementing core requirements.
- Customize a study plan comprised of a diverse set of specialized computer science courses.
- Develop comprehensive and in-depth skills and knowledge by focusing on computer science.

Mathematical Modeling

- Describe real-world systems using mathematical language and concepts.
- Explain and control systems using models, making accurate predictions about behaviors and possibilities.
- Learn to create models for everything from finance, economics, engineering, social sciences, and more.

Applied Computer Science

- Prepare to become a leading IT practitioner, trained by current industry leaders and professionals.
- Accomplish track requirements including Parallel and High Performance Computing, Theory of Communication Networks, Databases, and a variety of electives.

The program accentuates innovation and creativity, fostering an entrepreneurial spirit.

General Education

The BSCS degree consists of two components: the Major requirements and the General Education requirements. While the Major gives students depth, specialization, and career preparation, General Education gives breadth and a foundation of general knowledge, perspectives, and skills for life. Both are carefully designed components to assure that graduates are ready for life-long learning, whether in the classroom, on the job, or on their own. For more information, visit gened.aua.am.

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BSCS Program

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