

DATA: Driving Change, Future, and Success

Work the numbers and utilize massive amounts of information to maximize outputs in business, engineering, biotechnology, and any domain with big data. Develop skills across several disciplines, acquiring the knowledge and tools to obtain, track, manage, and apply data effectively. Stay a step ahead of the industry.

BSDS 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.

POSSIBILITIES

CAREER OPPORTUNITIES

- Machine Learning/Artificial Development
- Large User Base and Big Data
- Business Intelligence and Analytics
- Biotechnology, Public Health, and Pharmaceutical Industries
- Robotics, Drones/Unmanned Vehicles Development

GRADUATE STUDY OPPORTUNITIES

- Data Science
- Statistics
- Big Data Engineering
- Engineering Science



What to expect

BSDS is an interdisciplinary degree combining fundamentals of statistical modeling, machine learning, and computational sciences. Required core courses cover a range of topics from theoretical math and in-depth statistical methods, to computer programming and hands-on practical applications, including data visualization, machine learning and artificial intelligence. Students will choose one of two tracks of specialized study to match their interests and advance their careers.

Bioinformatics Track

Use computers and equations to sort and make sense of biological data, including genetic data. Topics of study include bioinformatics and computational biology algorithms, systems biology, functional genomics, structural modeling, and more.

Business Analytics Track

Learn how to think data-analytically and fully appreciate how data science methods support business decision making. The acquired knowledge and practical skills for business applications range from data visualization and data mining to cloud computing, data warehousing, and more.

General Education

An BSDS 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**.

American University of Armenia

40 Marshal Baghramyan Yerevan, 0019, Armenia

+374 60 69 40 40 aua.am

Office of Admissions

Room 108M

4+374 60 61 27 50

Apply at im.aua.am

BSDS Program

८ +374 60 61 26 40 **⊗** ds@aua.am

@cse.aua.am/ds

Social Media

f / AUA Admissions

f/AUArmenia

/aua_insta

/AUAuploads

/@AUAtweets

The American University of Armenia is accredited by the WASC Senior College and University Commission, 1001 Marina Village Parkway, Suite 402, Alameda, CA 94501, 510.748.9001, www.wscuc.org. In addition, AUA is affiliated with the University of California.