



BACHELOR *of* SCIENCE

ENGINEERING SCIENCES

"Learning Engineering will arm you with the necessary skills to be naturally creative and to become the architect of the future."

Arman Poghosyan, CEO, Instigate CJSC

Ready for the 21st Century?

The demand for engineers is increasing as our interconnected world requires innovative solutions to complex problems. Career possibilities are expanding and include emerging and cutting-edge markets. Engineers are needed in sectors ranging from technology and business to product design and conservation.

BSES 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.

Students are encouraged to utilize the on-campus Entrepreneurship and Product Innovation Center (EPIC): a startup incubator that helps students and entrepreneurs advance their ventures from idea to success. The Center includes a state-of-the-art prototyping lab for students to invent, tinker, and explore using 3D printers, a 3D scanner, CNC machines, and more.

"Engineering is the art of transferring science into reality. It has been one of the most vital and fundamental skills for the last 5,000 years and it will remain so for the next 5,000, especially in the field of Advanced Technologies. An engineering mindset is one of the most reliable tools for building a developed society."

Karen Vardanyan, CEO, UATE

EXPLORE *the* POSSIBILITIES

CAREER OPPORTUNITIES

- Engineering and product design
- Technology management
- Robotics and mechatronics
- Technology startups
- Hardware development
- Operations and logistics

GRADUATE STUDY OPPORTUNITIES

- Electrical engineering
- Mechanical engineering
- Industrial engineering
- Computer science
- Data science
- Business administration



What *to* Expect

BSES is an interdisciplinary degree that gives students a broad background in general engineering. The program emphasizes applied laboratory work in a variety of science, technology, engineering, and mathematics (STEM) disciplines.

What You'll Study

The program incorporates coursework in mechanical and electrical engineering, computer science, and engineering design while being strongly rooted in natural and physical sciences and mathematics.

Students will take a wide range of lecture and lab courses, including

- Robotics
- Electronics
- Chemistry
- Design
- Electricity & magnetism
- Computer organization
- Bioinformatics
- Mechatronics
- And much more...

General Education

The BSES 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
+374 60 61 27 50
Apply at im.aua.am
ugrad@aua.am
admissions.aua.am

BSES Program

+374 60 61 26 40
es@aua.am
cse.aua.am/es/

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