



AMERICAN UNIVERSITY OF ARMENIA

A U.S.-ACCREDITED GRADUATE INSTITUTION AFFILIATED WITH THE UNIVERSITY OF CALIFORNIA

INDUSTRIAL ENGINEERING & SYSTEMS MANAGEMENT PROGRAM

WHAT IS IESM?

- An opportunity to start your own business and organize your operations using the most contemporary production and organization methods.
- The know-how to evaluate market demand, assess competitors' abilities, and beat the competition.
- The scientific basis of the value creation process.
- A methodological approach to reduce costs in your company's production.
- The optimized use of financial resources for building and developing your business effectively.
- Support for all your business decisions.

The IESM program is designed to provide a broad-based education in the areas of industrial and operations management, production systems, information technologies, and communication. Through a set of core courses, students learn the basic methods of formulating and solving problems.

Attention is given to the changing nature of demands and capacities, principles of decision-making under uncertainty, effective use of information technologies, modeling and analysis of large systems, and techniques for finding optimal solutions applicable to businesses today.

Alumni quotes:

"There are many opportunities for students to communicate with faculty. It's one of the major strengths of the program. The professors are always open to questions and communication outside the classroom and even beyond their office hours."

"IESM graduates are better prepared for employment not only in the emerging manufacturing industry, but also in many other fields like banking, consulting and others."

ADMISSION REQUIREMENTS

To be considered for admission, an applicant must meet the AUA general admission requirements and the IESM specific requirements. Applicants are expected to:

- Hold an undergraduate degree in a field such as mathematics, science or engineering. Students with degrees in non-science disciplines may be admitted, depending on their completed course work and experience. The undergraduate degree must include, as a minimum, two years of college-level mathematics covering calculus, linear algebra and differential equations, and a course in physical sciences (physics, mechanics, chemistry, biology, etc).
- Present an Internet-based TOEFL (iBT) score of at least 79, or an IELTS score of at least 6.0. The test must have been taken within two years of the application date.
- Present a score of at least the 50 percentile on the Graduate Record Examinations Test (GRE) Quantitative section. The test must have been taken within five years of the application date.
- Submit an informative Statement of Purpose.

ABOUT AUA

Deciding to pursue an American master's degree is a big decision, but choosing the best school to meet your needs is even harder. AUA offers excellent U.S.-accredited graduate programs and provides several unique advantages.

- A safe, welcoming environment. Armenia offers a warm and hospitable social environment where all cultures are welcome and appreciated.
- Motivated students. Students from the U.S., China, Iran, Syria, Georgia, Russia, India and around the world join Armenian students for an increasingly international student body.
- Accommodating facilities and services. Facilities, including the new, state-of-the-art Paramaz Avedissian Building, with services such as wireless Internet and the latest software, the open-stack Papazian library, a cafeteria and health center.



For more information on admissions and a list of all required documents, please check the AUA website: www.aua.am

CURRICULUM

IESM students select courses which provide both intellectual depth as well as practical skills needed for today's rapidly evolving economy of Armenia and the region. The curriculum consists of ten core courses, five elective courses, a group of three courses in a minor field of study, an environmental sciences course, and a master's project/thesis. The minors currently offered are Business Management, Energy, Design & Manufacturing, and Computer & Information Science. In the summer prior to the start of the graduate studies, preparatory courses are offered to ensure that entering students have the requisite background for graduate study in the IESM program.

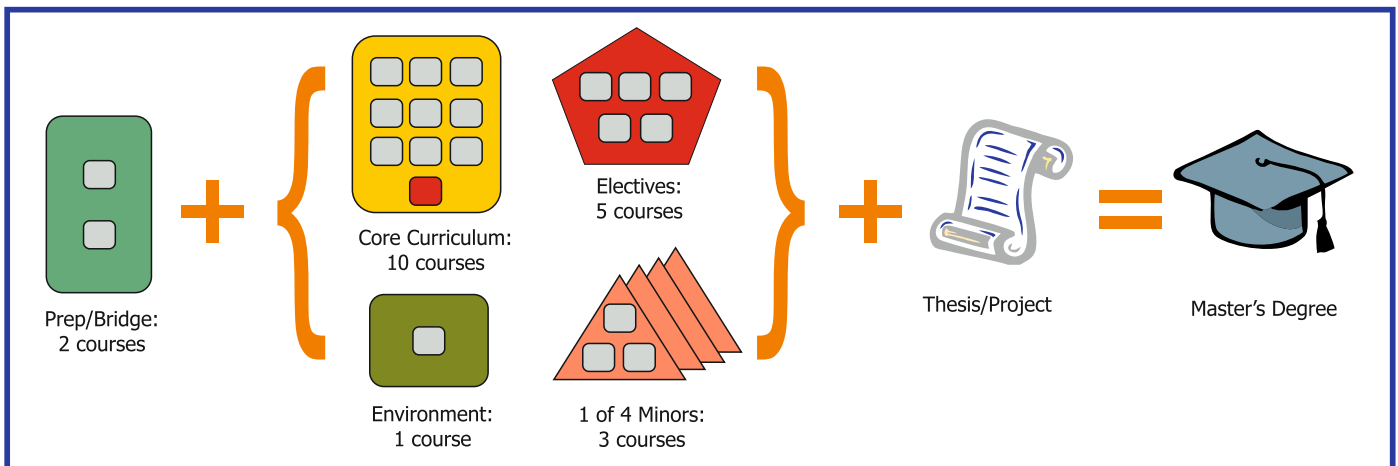
A key feature of the IESM program is the provision for students to engage in an integrative project in modern production methods in conjunction with selected industrial partners. This course provides the students with an opportunity to gain real world experience as well as to develop links with Armenian industry, an experience that often leads to employment. In the project course, as well as in other courses, students prepare reports and make oral presentations in order to improve their communication skills.

ENGINEERING RESEARCH CENTER (ERC)

The ERC conducts innovative engineering research on topics that are relevant to the economic development of Armenia and its regions. It brings together AUA scientists and engineers, visiting faculty, and AUA students to collaborate on projects that are generated internally or are funded by external sponsors.

Qualified students are employed as research assistants, and gain valuable experience working alongside experts on projects related to their fields of study.

ERC has collaborated with companies and foundations in the US, France, Germany, and local industry in Armenia, as well as with academicians worldwide, including in the US, New Zealand, and India.



Applicants to the IESM program come from a diverse collection of undergraduate degree backgrounds such as Radio Communication, Architecture, Accounting, Informatics and Applied Mathematics, Physics, Civil Engineering, Economics, Management, and Construction Engineering. Some have previous work experience while others apply directly after their undergraduate studies.

Many graduates of the IESM program have gone on to earn PhDs or further graduate study in a number of leading universities in the US and in Europe. A large majority of our graduates who seek employment upon the completion of their studies have attained jobs at leading companies in Armenia, while others have started their own companies with the skills and ideas generated during their time at AUA.



The American University of Armenia is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges, 985 Atlantic Avenue, #100, Alameda, CA 94501, 510-748-9001.

To learn more about the Industrial Engineering & Systems Management Program contact:
Phone: (374 10) 51-26-31, 51-26-38
FAX: (374 10) 51 25 12
Email: iesm@aua.am; Website: iesm.aua.am
Or come by and visit

For additional information contact:
AUA Office of the Registrar
Phone: (374 10) 51 27 91
Email: admission@aua.am
40 Marshal Baghramian Avenue
Yerevan 0019, Republic of Armenia