Arizona State University (Tempe campus)

Data Science, BS

Study details

Course type: Bachelor's degree
Degree: Data Science, BS LADATSCIBS
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).

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- 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.

Available online

Additional information

Program description

Data science uses sophisticated mathematical, statistical and computational tools to extract patterns from large, complex and often unordered data sets. The BS program in data science prepares students to be critical analysts in a variety of areas, such as business, research and government.

With a mathematical core consisting of linear algebra, statistical inference and classification, data mining, machine learning and associated computer methods, students leave the program with a strong background in data-related skills that are useful in understanding and solving practical issues.

This transdisciplinary program allows students to choose a focus area in:

- behavioral sciences
- biosciences
- business analytics
- computer science
- mathematics
- social sciences
- spatial 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.

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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:

- Computational Life Sciences, MS
- Data Science, Analytics and Engineering (Bayesian Machine Learning), MS
- Data Science, Analytics and Engineering (Computational Models and Data), MS
- Data Science, Analytics and Engineering (Human-Centered Applications), MS

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

With more than 300 Global Education program opportunities available to them, data science students are able to tailor their experience to their unique interests and skill sets. Whether in a foreign country, in the U.S. or online, students build communication skills, learn to adapt and persevere, and are exposed to research and internships across the world, increasing their professional network.

Career opportunities

Glassdoor.com ranks data scientist at No. 2 on its list of the 50 Best Jobs in America. The McKinsey Global Institute projects a shortage of qualified workers with deep analytical skills.

Graduates of the data science program possess skills related to data analysis, data prediction models and ethical uses of research data, helping them to meet the expressed needs of society. Graduates work in a variety of fields, including governmental research, education, health services, consumer behavior and business.

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