

Study Abroad Consultant Hub



Arizona State University (Tempe campus)

Complex Systems Science, MS

Study details

Course type: Master's degree

Degree: Complex Systems Science, MS GFCMPXSSMS

Study mode: Full time **Duration**: 24 Month

Cost of study

Cost: 38 526 USD **Reg. fee**: 115 USD

Scolarship:

Insurance: 2 765 USD

Intake/s

Aug

Requirements Admission requirements

- Applicants must fulfill the requirements of both the Graduate College and the College of Global Futures.
- Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree from a regionally accredited institution.
- Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

All applicants must submit:

- 1. graduate admission application and application fee
- 2. official transcripts
- 3. three letters of recommendation
- 4. written statement
- 5. professional resume
- 6. proof of English proficiency

Additional Application Information

An applicant whose native language is not English must provide proof of English proficiency (TOEFL 80 (no band below 20) (IELTS 6.5 at least 6.0 in all skills)) regardless of current residency.

Accommodation

78a Vazha Pshavela Ave, Tbilisi, Georgia Phone: +995 322 96 11 22

Mobile: +995 596 96 11 22



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Provided by partner agencies;

On-campus housing and meals \$18,933

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.

Also available online

Additional information Program description

Degree awarded: MS Complex Systems Science

Most systems are complex. This means that through the interaction between their parts, these systems exhibit emergent properties and unintended consequences.

The curriculum in the MS program in complex systems science focuses on developing skills in theoretical foundations, modeling, problem solving, critical thinking, and the importance of direct experience through research or related activities. Complex systems science students cultivate the ability to approach complex problems through analysis and modeling and by identifying issues, asking questions and collaborating with others to create effective solutions.

Graduates in complex systems science can apply their skills to a large number of areas and in many professions where they can make a difference through innovative and creative methods. Knowledge and skills gained in the program include:

- business enabler skills such as project management, decision-making, visualization and data communication
- digital building block skills such as artificial intelligence and data analytics, big data and data management, software development and information security
- domain knowledge in areas such as strategy, economics, marketing, communications and public relations, talent development and human resources, research and design, and product development
- human skills such as critical thinking, creativity, analytical reasoning, communication and collaboration

Global opportunities

Global experience

Studying abroad is encouraged for graduate students. Nearly all of the College of Global Futures faculty-directed programs offer graduate credit. In addition, the Global Education Office offers more

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than 50 program opportunities, with programs on every continent.

Faculty-directed programs tend to be the best fit for graduate students; taking courses with ASU professors over the summer or during academic breaks offers students close mentorship and professional network growth in many fields of study while they earn ASU credit. Exchange program participation is also possible with careful planning.

Students can find programs specific to their interests on the College of Global Futures Study Abroad webpage, and additional opportunities and information on the ASU Global Education Office website. These sites also include additional information about applying for funding to support global travel.

Graduate students are also encouraged to apply for funding for international research, study and professional development through ASU's Lorraine W. Frank Office of National Scholarships Advisement.

Career opportunities

Complex adaptive system concepts and methods serve as bridges between disciplines, providing a common language that enables the interdisciplinary collaborations necessary for coming to grips with today's intellectual and societal challenges.

A complex systems approach gives graduates the ability to understand the interconnections within and between technological, economic, societal, biomedical and environmental systems. It gives graduates advanced digital skills like modeling and network science. Graduates are fluent in the language of complexity and have a solid foundation in the domain knowledge of existing academic disciplines. This will give them an edge in diverse careers in science, technology and data analytics, especially compared with peers in their field of study who lack such expertise.

Career examples include:

- business intelligence analytics and data science
- consulting
- corporate social responsibility and sustainability
- · data and microsystem engineering
- education
- environmental systems
- natural or health science management
- nongovernmental and nonprofit work
- policy making in government and regulatory agencies
- · research and development

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