Global Management (Data Science), MGM

TBGMDSCMGM

Get ready to take on a global career in data science leadership with the latest data management tools and skills to solve complex, real-world problems.

Program description

Degree awarded: MGM Global Management (Data Science)

This STEM-designated data science concentration within the MGM program, designed in partnership with the School of Computing and Augmented Intelligence in the Ira A. Fulton Schools of Engineering, is designed for students who are interested in gaining both global management and data management expertise to work in multinational corporations, international nonprofit entities, and governmental and nongovernmental organizations around the globe.

As global companies and organizations continue to rely on data to drive management decisions, it is increasingly important for leaders to have the skills necessary to understand and interpret that data.

About Thunderbird

Thunderbird School of Global Management has produced world-class leaders for more than 75 years. The ideal Thunderbird student is curious, globally minded, and eager to develop and advance their careers in leadership and management within the global and digital landscape of the Fourth Industrial Revolution. Upon completion of this degree, graduates join a thriving global alumni network nearly 50,000 strong, managing some of the world's largest institutions, companies, nonprofits and NGOs.

At a glance

- **College/School:** Thunderbird School of Global Management
- **Location:** Downtown Phoenix

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:

Business (Agribusiness Innovation and Technology), BA

Business (Food Industry Management), BA

Business (Language and Culture), BA

Business (Statistics), BA

Business Data Analytics, BS

Business Entrepreneurship, BS

Economics, BS

Engineering Management, BSE

Industrial Design, BSD

Industrial Engineering, BSE

Informatics, BS

Liberal Studies, BA

Marketing, BS

Marketing (Digital and Integrated Marketing Communications), BS

Marketing (Professional Sales), BS

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. Interested students can learn about eligibility requirements and how to apply.

Degree requirements

49 credit hours, a foreign language exam, including the required capstone course (TGM 597)

Required Core (3 credit hours)
TAM 582 Communicating and Negotiating in a Dynamic Global World (3) or
TGM 506 Communicating and Negotiating Across Cultures (3)

Concentration (12 credit hours)
CSE 511 Data Processing at Scale (3) or CSE 512 Distributed Database Systems (3)
CSE 572 Data Mining (3) or IEE 520 Statistical Learning for Data Mining (3)
Choose two from the following:
CSE 510 Database Management System Implementation (3)
CSE 515 Multimedia and Web Databases (3)

CSE 546 Cloud Computing (3)

CSE 573 Semantic Web Mining (3)

CSE 578 Data Visualization (3)

Electives (12 credit hours)

Other Requirements (21 credit hours)

foreign language

TGM 515 Navigating Global and Regional Business Environments (3)

TGM 517 Global Accounting and Financial Management (3)

TGM 545 Global Leadership and Strategy (3)

TGM 557 Global Marketing and Data Analytics (3)

TGM 586 Global Entrepreneurship and Sustainable Business (3)

TGM 596 Thunderbird Experiential Practicum (6)

Culminating Experience (1 credit hour)

TGM 597 Thunderbird Personal Leadership Development (1)

Additional Curriculum Information

Electives are as approved by the academic unit.

Except for TGM 596 and the foreign language requirement, other required coursework may be substituted with approval of the academic unit.

Proficiency in a second language is required for graduation from the Master of Global Management degree program. Students whose native language is not English who meet the admission requirements for the program satisfy the language requirement.

Students whose native language is English must satisfy the graduation requirement for language proficiency either through an oral proficiency interview administered by a third-party vendor or by successfully completing six credit hours of 400-level or higher foreign language coursework.

Admission requirements

Applicants must fulfill the requirements of both the Graduate College and Thunderbird School of Global Management.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree in any subject 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 applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

Applicants are required to submit:

1. graduate admission application and application fee
2. official transcripts
3. resume
4. essay response to application question
5. one professional or academic reference
6. interview
7. proof of English proficiency

Additional Application Information

An applicant whose native language is not English must provide proof of English proficiency regardless of their current residency.

The resume should demonstrate the applicant's professional and academic history.

An interview is required. Final applicants may be asked to complete an additional interview.

Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about ASU tuition and financial aid options to find out which will work best for them.

Program learning outcomes

Program learning outcomes identify what a student will learn or be able to do upon completion of their program. This program has the following program outcomes:

- Develop the ability to build sustainable and trusting relationships with others from diverse parts of the world.
- Able to use big data analytics tools and develop frameworks that are critical for providing meaningful information to make business decisions.
- Develop the ability to inspire others in a global world.

Global opportunities

Global experience
Students in Thunderbird's Master of Global Management program have unique opportunities to apply and hone their learning in international settings. Experiential learning exposes students to actual problems faced by leaders of multinational businesses and governmental or nonprofit organizations that operate on an international level.

Working with Thunderbird professors, their fellow students, alumni and corporate partners, students master and apply global management principles and concepts to meet real business challenges through special courses, labs and projects. Thunderbird offers a wide variety of experiential learning engagements,

giving students the ability to solve real-world challenges by collaborating with the school's corporate partners around the world. Some options include the following:

Global Field Seminars

This one- or two-week seminar exposes students to the dynamics and nuances of doing business in a focused region of the world. Teams of students go on company site visits and attend high-level meetings and presentations with business, government and cultural leaders as well as with Thunderbird alumni. Students gain invaluable hands-on experience while expanding their global business skills, enabling them to become major assets to any organization they join after graduating.

Thunderbird Global Challenge Laboratories

This is a client-facing, project-based course built on a six- to seven-week immersion assignment in a key emerging or advanced market. Projects take students to destinations all over the world. They are tailored to the business needs of the client and challenge students to provide sophisticated data and market analysis, strategy recommendations, and plans for sustained growth that are both practical and effective. For more information, students should visit the Thunderbird Global Challenge Lab website.

Career opportunities

Career examples include:

- computer and research information scientist
- instructional designer and technologist
- intelligence analyst
- management analyst
- market research analyst and marketing specialist

Contact information

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