

Master of Science in Information Technology (MSIT) Concentration in Data Analytics



OVERVIEW

Today, data is all around us, helping organizations and individuals to improve their decision-making, increase their efficiency, gain insight into developing trends, and so much more. Students interested in a master's degree with an analytics focus may be interested in pursuing a leadership role in the fields of data analytics, data management, data research, or data operations.

AIU's Master of Science in Information Technology degree with a concentration in Data Analytics is designed to provide the knowledge, skills, and abilities relevant to pursue a career path in the data analytics industry. The program emphasizes problem-based, hands-on learning to help students prepare for the demands of working in the data analytics field.

CURRICULUM INCLUDES

In this industry-focused curriculum, students will have an opportunity to learn how to design, analyze, test, and implement systems. The coursework also allows students to explore software development management, global technology management, enterprise architecture, and technological innovations. The program also focuses on technical communications as well as legal and ethical issues. Courses in the Data Analytics concentration cover a number of topics in this field, as well as a capstone course to help students bring all their skills together, such as:

Advanced Data Analytics: focuses on advanced concepts, techniques, and strategies for data analysis. Students will have the opportunity to use techniques and strategies to solve organizational problems using a problem-based approach.

Ethical, Social, and Legal Issues in Analysis: designed to provide students with key insights into the ethical, social, and legal issues pertinent to the data analytics field. Explores ethical, social, and legal issues specific to a selected industry.

Executive Strategies and Actionable Analytics: explores the strategies organization executives can use respective to data analytics. Additional focus is on the transformation and presentation of data analysis results into actionable analytics.

Innovations and Emerging Media: covers contemporary topics which may include artificial intelligence, machine learning, blockchains, cryptocurrencies, IoT, autonomous vehicles, and digital media. Specific focus is placed on the resultant ethical, social, legal, and cultural issues such as net neutrality, broadband regulation, privacy, and intellectual property rights.

* Transfer credits are evaluated on an individual basis. Not all credits are eligible to transfer. See the University Catalog for transfer credit policies.

WHY AIU?

AIU offers a streamlined, real-world curriculum and flexibility designed to help you schedule school around your life, not the other way around.

To accommodate busy lives, we offer full- and part-time program options and transfer-in credit* for eligible college, work and military experience, which could cut down on the time it takes to earn a degree.

American InterContinental University is a member of the American InterContinental University System. The System is accredited by the Higher Learning Commission (hlcommission.org), an institutional accreditation agency recognized by the U.S. Department of Education.

COURSEWORK

AIUniv.edu

Master of Science in Information Technology

(MSIT) Concentration in Data Analytics

The goal of the Master of Science in Information Technology degree with a concentration in Data Analytics is to provide students with knowledge, skills, and abilities relevant for the data analytics field.

INDUSTRY-FOCUSED CURRICULUM

The specialized curriculum in AIU's MSIT-Data Analytics program allows students to study skills needed to analyze data, evaluate data analysis methods and models, use data analysis and statistical techniques to support organizational goals, synthesize information from data, create visualizations that

turn data analysis into actionable analytics, and create a strategic data analytics plan.

TAUGHT BY EXPERIENCED PROFESSIONALS

AIU's MSIT program is taught by a team of experienced professionals who bring their real-world perspectives into the classroom. This approach can help students better understand the qualities and skills utilized in today's information technology industry.

OUTCOMES

WE CAN HELP YOU LEARN HOW TO:

- Assess and design IT architecture and systems for solutions to business needs.
- Design plans for IT projects, programs, and operations.
- Communicate technical information to internal and external stakeholders, including those with and without technical knowledge.
- Research, evaluate, and select appropriate technologies to support business requirements.
- Demonstrate the ability to manage processes specific to data analytics.

REQUIRED COURSES

CORE COURSES		
DAAN 500	Advanced Data Analytics	4.5
DAAN 510	Ethical, Social, and Legal Issues in Analytics	4.5
DAAN 530	Executive Strategies and Actionable Analytics	4.5
ITCO 502	Systems Analysis and Design	4.5
ITCO 512	Advanced Technical Communication	4.5
ITCO 522	Software Development Management	4.5
ITCO 532	Global Technology Management	4.5
ITCO 542	Enterprise Architecture	4.5
ITCO 552	Innovations and Emerging Media	4.5
ITCO 592	Capstone	4.5
Total MSIT Degree Requirements		45 Credits

AIU cannot guarantee employment, salary, or career advancement. Not all programs are available to residents of all states.
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