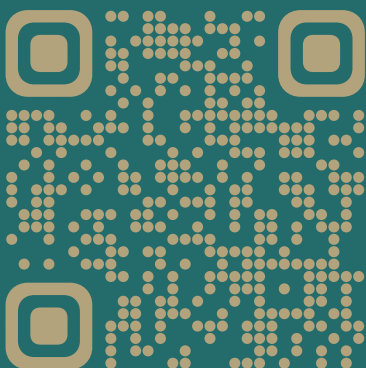


## Why you should choose Harrisburg University...

- Leading cutting-edge Data Science and Analytics Master's Program in the US' fastest growing STEM university.
- This Analytics graduate Master's Degree Program features all the building blocks for Artificial Intelligence and Machine Learning.
- The Analytics space has the highest number of high paid job openings for the simple reason that it is a horizontal discipline that cuts across all technology and non-technology sectors of the global knowledge economy.
- M.S. Analytics at HU is the most affordable Master's Degree Program among leading peers, yet it is highly experiential, hands-on, real-world, adapted to working professionals and networked into leading industrial corporations.
- The M.S. in Analytics is solutions-driven and student-centered. It will hone your hard skills, soft skills, individual and team-building skills, tech ability, business acumen, leadership potential and ability to undertake and deliver successful tech projects harnessing data science, Big Data, NLP, ML, AI and other key informational platforms across fields ranging from traditional industries to finance, marketing, economics, business intelligence, advertising, sports, high tech, defense, security, health informatics, geospatial data processing, logistics supply chain management, infrastructure, utilities, etc.
- The M.S. in Analytics is flexible: it allows you to keep your options general and open or to tailor your concentration to your targeted field of expertise.
- The M.S. in Analytics allows you to get a valuable fully accredited M.S. degree while not interrupting your career or interfering with your current lifestyle.
- Dubai has become a leading global "capital" of emerging and high growth transition global markets, where your analytical skills can be further developed into personal, career and business growth opportunities.



For more details on the program, check out our website at <https://www.harrisburgu.edu/about/locations/dubai/> or **Scan QR code**

For direct inquiries:  
Write to **HUDubai@HarrisburgU.edu**  
or Call: **+971 4 529 8935**

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**Harrisburg University of Science and Technology**

Dubai Knowledge Park Block 19, First Floor  
Dubai, United Arab Emirates



## M.S. ANALYTICS PROGRAM

### Did you know...

Data Science was identified as the field with the largest skill gap, according to a 2021 report by the World Economic Forum (WEF): currently, in 2023, the number of data science jobs listed outstrip 4 to 1 the number of qualified data scientists available means these are highly valued as regards remuneration, and while traditional jobs are disappearing to AI, data scientists are those that power that very AI.



The Harrisburg University of Science and Technology is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, Pennsylvania 19104, USA. (267-284-5000) The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation.

**The Harrisburg University of Science and Technology is approved by the Knowledge and Human Development Authority (KHDA) to operate in Dubai, UAE.**

## M.S. ANALYTICS Program

**This 36-semester-hour program immerses the student in a comprehensive and applied curriculum exploring the underlying data science, information technology, and business of Analytics.**

Supplemented by industry-supplied projects, graduates are exceptionally well-equipped to harness and communicate the full value of data to the organizations served. This program is a powerful new entrant into the field of data

analytics and is critical to developing the next wave of analytics professionals. Businesses today use data mining and analytics to drive pricing, marketing, research and development, finance, operations, logistics, risk management, and online activities. The graduate of this program enters the workforce with the skills, confidence, and expertise required to succeed in today's information-intensive world.

“

Our Analytics program addresses with deliberate purpose the most pressing needs of the rising generation of young professionals: 99% of organizations worldwide are currently investing in data transformation initiatives and our program is focused on exactly these requirements, so it helps all high achieving professionals to invest in becoming leading experts in what really matters to the global knowledge economy that is taking over the world as we know it



**Doaa Taha, PhD**

Assistant Vice Chancellor of Academic Partnerships,  
Professor & Program Lead in Analytics for Dubai Campus

Data science combines math and statistics, specialized programming, advanced analytics, artificial intelligence (AI), and machine learning with specific subject matter expertise to uncover actionable insights hidden in an organization's data. These insights can be used to guide decision making and strategic planning.



## PROGRAM OVERVIEW

### 36 SEMESTER HOURS

#### PROGRAM REQUIREMENTS

15

SEMESTER HOURS

CORE COURSES

15

SEMESTER HOURS

ELECTIVES

6

SEMESTER HOURS

EXPERIENTIAL  
LEARNING

#### CORE CURRICULUM – 15 SEMESTER HOURS

- ANLY 500** – Analytics I: Principles and Applications
- ANLY 502** – Mathematical Foundations for Data Analysis
- ANLY 510** – Analytics II: Principles and Applications
- ANLY 506** – Exploratory Data Analysis
- or **ANLY 512** – Data Visualization
- ANLY 545** – Categorical Data Analysis
- or **ANLY 560** – Advanced Programming for Data Analytics

#### SPECIALIZATION OPTIONS

The Master of Science in Analytics student can choose electives totaling up to 15 credits from any graduate-level program. This option allows the Analytics student to build their own customized specialization and concentration.

#### EXPERIENTIAL LEARNING

- GRAD 695** – Research Methodology and Writing
- GRAD 699** – Graduate Thesis /OR/ **ANLY 699** – Applied Project in Analytics