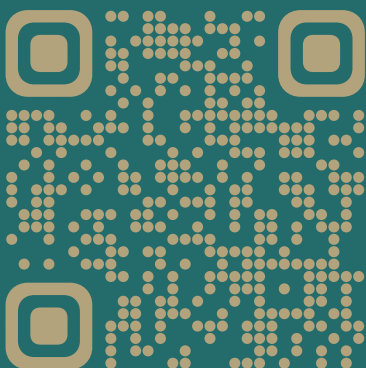# Why you should choose Harrisburg University...

- The Information Systems Engineering and Management (ISEM) Master's Program supports career advancement and career change. The program provides a flexible, student-driven blend of business, process and technology courses as it progresses through Information Systems, Systems Engineering and Management topics. The curriculum integrates these concepts to provide the student with a "holistic" view of complex system development.

- The ISEM curriculum is in line with industry needs. ISEM regularly consults with its Industry Advisory Board and alumni to ensure the curriculum is meeting those needs.

- ISEM offers a tailorable program. Upon completion of ISEM "Core" courses, a student can then build their own customized specialization.

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**

Harrisburg University of Science and Technology

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

HARRISBURG UNIVERSITY
OF SCIENCE AND TECHNOLOGY

M.S. INFORMATION SYSTEMS ENGINEERING AND MANAGEMENT
PROGRAM

Did you know...

ISEM students can be found working in top technology companies, including those as diverse as Apple, AT&T, Motorola, Nike, Salesforce, Warner Brothers, hospital systems and many others. Within these companies, ISEM students are operating in every imaginable capacity. ISEM is geared to provide its students with a combined technology, systems design and management perspective that is applicable across the globe.

M.S. INFORMATION SYSTEMS ENGINEERING AND MANAGEMENT Program

The 36-credit-hour flexible and interdisciplinary graduate program in Information Systems Engineering and Management (ISEM) emphasizes the technical, engineering and management business aspects of creating and deploying smart digital enterprises.

ISEM offers a bridge between current and emerging technologies, the technical system development process and management considerations, including the study of management science to support enterprise digital transformation.

The ISEM graduate program is designed to educate leaders who can work with stakeholders, understand business problems, define requirements for addressing those problems, then plan, architect, design, integrate, test, deploy and manage the next generation of smart digital enterprises.

"

Industry needs employees who are comfortable communicating and working across the entire organization. ISEM aims to provide students with a systems level, holistic perspective that supports working with people at all levels, from the C-Suite to every technical and support position

Robert Pittman, Ph.D.
Assistant Professor and Program Lead of Systems Engineering

ISEM graduates are able to:

- Analyze the internal and external environments of an enterprise;

- Apply various developed models for strategic decision making;

- Justify information, engineering, and management systems decisions made to address practical, interrelated problems;

- Construct the design and planning processes for a restructured operation within the firm.

PROGRAM OVERVIEW
36 SEMESTER HOURS
PROGRAM REQUIREMENTS

18	12	6
SEMESTER HOURS	SEMESTER HOURS	SEMESTER HOURS
CORE COURSES	**ELECTIVES**	**EXPERIENTIAL LEARNING**

CORE CURRICULUM – 18 SEMESTER HOURS

COMPLETE THE FOLLOWING COURSES:

ANLY 500 – Analytics I: Principles and Applications

ISEM 500 – Strategic Planning for Digital Transformation

ISEM 530 – Systems Engineering Principles

ISEM 540 – Enterprise Architecture and Integration

MGMT510 – Business Strategy and Management Principles

Note: The ISEM program also offers the ISEM 501 - Introduction to Digital Technologies, which is designed for the student that does not have a CS or IT background.

COMPLETE TWO (2) OF THE FOLLOWING COURSES:

ISEM 502 – User-Centered Design

ISEM 503 – Artificial Intelligence Principles and Applications

ISEM 534 – Database Design and Management

ISEM 536 – IT Infrastructure and Cloud Computing

ISEM 547 – IT Management

ISEM 551 – Web-based Software Engineering

ISEM 565 – Business Intelligence & Decision Support Systems

ISEM 570 – Principles of ITIL for IT Quality

ISEM 574 – Bitcoin Blockchain

MGMT 511 – Digital and Global Enterprises

SPECIALIZATION OPTIONS

The Master of Science in Information Systems Engineering and Management student can choose electives totaling up to 12 credits from any graduate-level program. This option allows the Information Systems Engineering and Management student to build their own customized specialization and concentration.

EXPERIENTIAL LEARNING

GRAD 695 – Research Methodology and Writing

GRAD 699 – Graduate Thesis **/ OR /** **ISEM 699** – Applied Project in Information Systems Engineering and Management