"At A Glance" ISEM Master's Program and Related Courses (version 08/25/23) (See HU Graduate Catalog for Course Details)

• (Year 1, Semester 1) ISEM 501: Introduction to Digital Technologies (Preparatory Elective course)
"Mandatory Core" courses (5 Courses = 15 semester hours)
• (Year 1, Semester 1) ISEM 500: Strategic Planning for Digital Transformation
• (Year 1, Semester 1) MGMT 510: Business Strategy & Management Principles
• (Year 1, Semester 2) ISEM 540: Architecture & Integration of Modern Enterprises
• (Year 1, Semester 2) ISEM 530: Systems Engineering Principles
Then "Pick 1" from the following list of five (5) courses (3 Semester hours):
• (Year 1, Semester 3) ISEM 502 / ISEM 534 / ISEM 551 / ISEM 570 / MGMT 511 (also listed below)

ISEM Elective and Concentration Courses (5 Courses = 15 semester hours) These courses start Year 1, Semester 3, following completion of all "Mandatory Core" courses **Course Number and Title Course Number and Title Current and Emerging Technology Courses Management Sciences** • ISEM 502: User-Centered Design • ISEM 503: Artificial Intelligence Principles • ISEM 533: Distributed Databases, Administration and Applications and Security Systems ISEM 505 AI Systems Engineering ISEM 564: Big Data Emerging Applications ISEM 534: Database Design and Management ISEM 536: IT Infrastructure & Cloud Computing ISEM 565: Business Intelligence and **Decision Support** • ISEM 550: Cyber Security Management ISEM 585 Introduction to Modeling, ISEM 551: Web-based Software Engineering Optimization and Decision ISEM 558: IoTs and Industry 4.0 Making ISEM 570: Principles of ITIL ISEM 572: Smart Cities and Strategic Intelligence ISEM 582: Cloud Computing Applications for Business **Digital Health and HCIN Cross-Lists Blockchain and Cryptocurrency** ISEM 574: Bitcoin Blockchain (Regular Semesters only) ISEM 512: Essential Skills ISEM 575: Ethereum Blockchain ISEM 541: Healthcare Systems ISEM 576: Cryptocurrency and Regulation ISEM 542: Health Informatics and ISEM 577: Blockchain Scalability ISEM 578: Decentralized Finance **Information Systems** ISEM 543: Digital Health ISEM 545: Healthcare Data **Enterprise Management** ISEM 528: Industry Analysis & Technology Patterns ISEM 547: Technology Management MGMT 511: Digital and Global Enterprises MGMT 512: Marketing in the Digital Age MGMT 513: Financial and Managerial Accounting

ISEM Capstone Sequence (2 Courses = 6 semester hours). Typically taken in semesters 5, 6.

- GRAD 695: Research Methods and Writing
- ISEM / GRAD 699: Applied Project or Research Thesis

ISEM PhD Preparatory Course (available to Master's students)

• GRAD 509: Research Methods

"At A Glance" ISEM Master's Program and Related Courses (version 08/25/23) (See HU Graduate Catalog for Course Details)