

M.S. in Management Information Systems

At the **Worldwide Campus**, the Master of Science in Management Information Systems focuses on the intersection of information systems and business management. The program includes study of data organization, management, and the use of technology to support decision-making in organizations. The curriculum includes research components and aligns with standards associated with organizations such as the Association for Information Systems. The program addresses analysis of data, design of information systems, and the application of technology to problem-solving.

Program-Level Student Learning Outcomes

Students will:

- Evaluate the role of information and knowledge in organizations to support the accomplishment of organizational goals and objectives through system development and project management principles.
- Integrate the principles of quality management to implement continuous business process improvements that achieve information systems' reliability and robustness in sustainable ways.
- Apply systems engineering principles to the requirements analysis, design, development, implementation and operational support of enterprise systems.
- Integrate various ethical, legal, technological and professional perspectives, both local and global, throughout the various management information systems decision making and managerial and leadership processes.
- Evaluate the various aspects of information and technology alternatives, stewardship and governance within different organizational and mission contexts.

Worldwide Program Requirements

Core Requirements	21
Specializations or Open Electives	9
Total Credits	30

Program Details

The Master of Science in Management Information Systems requires successful completion of a minimum of 30 credit hours. Students enrolled in the Worldwide Graduate Online program may complete the degree in six terms, or approximately two years, assuming full-time enrollment and continuous progress. Students pursuing this graduate degree must earn a minimum cumulative grade point average (CGPA) of 3.00 for all work completed at the University. The courses required to earn this degree are listed below.

Students should be aware that many courses have prerequisites and/or corequisites. Students are responsible for ensuring that all prerequisite and degree requirements are satisfied prior to enrollment in advanced coursework. The suggested plan of study is provided as a guide. A student's actual plan of study may vary based on term of admission, course availability, transfer credit, and other academic considerations. Students should consult with their academic advisor to develop an individualized plan of study.

Students may complete either the specialization option or the open elective option. Students pursuing the open elective option may complete approved non-duplicative graduate coursework from the College of Business or another Embry-Riddle college, subject to Department Chair approval where applicable. Students should consult with their academic advisor to determine the option that best aligns with their academic and professional goals.

Core Requirements

MMIS 501	Business Systems: Managing the IS Enterprise	3
MMIS 525	Cybersecurity and Risk Management	3
BUAN 505	Information Analytics and Visualization in Decision Making	3
MMIS 506	Systems Analysis and Design of Information Systems	3
MMIS 507	Information Systems Strategic Planning	3
PMGT 652	Concepts and Practices of Project Management	3
MMIS 690	Management Information Systems Capstone	3
Total Credits		21

Specializations or Open Electives

Enterprise Resource Planning

SCLM 540	Procurement for Logistics Managers	3
SCLM 600	Enterprise Process Integration using SAP S/4 HANA	3
SCLM 630	Enterprise Process Configuration using SAP S/4 HANA	3
Total Credits		9

Agile Project Management

PMGT 500	Foundations of Project Management	3
PMGT 575	Agile Project Management Professional	3
PMGT 675	Advanced Agile Project Management Professional	3
Total Credits		9

Project Management

PMGT 500	Foundations of Project Management	3
PMGT 550	Project Management Professional	3
PMGT 650	Advanced Project Management Professional	3
Total Credits		9

Business Intelligence and Analytics

BUAN 522	Business Analytics, Social Network and Web Analytics	3
BUAN 523	Data Mining for Business Analytics	3
BUAN 524	Applied Business Intelligence and Analytics	3
Total Credits		9

Cybersecurity

CYAV 520	Aviation Cybersecurity Threats, Actors, Tools, and Techniques	3
CYAV 525	Aviation Cybersecurity Risk Management and Resilience	3
CYAV 516	Operational Technology Risks in Aviation - IoT, ICS, SCADA	3
Total Credits		9

Open Electives

Students may choose Open Electives instead of a Specialization	9
Graduate credit hours from the ERAU system or transfer credit	
Total Credits	9

Suggested Plan of Study

One Year Plan

Year One

Requirements	Credits
MMIS 501 - Business Systems: Managing the IS Enterprise	3
Specialization	3
Semester Hours	6

Requirements	Credits
Specialization	3
MMIS 525 - Cybersecurity and Risk Management	3
Semester Hours	6

Requirements	Credits
BUAN 505 - Information Analytics and Visualization in Decision Making	3
PMGT 652 - Concepts and Practices of Project Management	3
Semester Hours	6

Requirements	Credits
MMIS 506 - Systems Analysis and Design of Information Systems	3
Specialization	3
Semester Hours	6

Requirements	Credits
MMIS 507 - Information Systems Strategic Planning	3
MMIS 690 - Management Information Systems Capstone	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 30

Two Year Plan

Year One

Requirements	Credits
MMIS 501 - Business Systems: Managing the IS Enterprise	3
Semester Hours	3

Requirements	Credits
MMIS 506 - Systems Analysis and Design of Information Systems	3
Semester Hours	3

Requirements	Credits
MMIS 507 - Information Systems Strategic Planning	3
Semester Hours	3

Requirements	Credits
MMIS 525 - Cybersecurity and Risk Management	3
Semester Hours	3

Requirements	Credits
BUAN 505 - Information Analytics and Visualization in Decision Making	3
Semester Hours	3

Total Credits

Total Hours for All Requirements: 15

Year Two

Requirements	Credits
PMGT 652 - Concepts and Practices of Project Management	3
Semester Hours	3

Requirements	Credits
Specialization	3
Semester Hours	3

Requirements	Credits
Specialization	3
Semester Hours	3

Requirements	Credits
Specialization	3
Semester Hours	3

Requirements	Credits
MMIS 690 - Management Information Systems Capstone	3
Semester Hours	3

Total Credits

Total Hours for All Requirements: 15

Estimated Cost of Attendance

Estimated Cost of Attendance: California Student Information (<https://catalog.erau.edu/student-life/student-affairs/california-student/>)