

## MASTER OF SCIENCE IN ENTERPRISE SYSTEMS ENGINEERING DEGREE PROGRAM

Enterprise Systems Engineers study and improve upon the interaction of data, applications, users and systems within the context of business rules and logic. This degree program is designed to provide students who wish to focus on the foundational, technical and managerial skills needed to integrate, test, administer, protect, and maintain sophisticated information systems within an organization. Students also study the effective and sustainable use of IT systems in business operations, the organizational and community impact of IT systems, and management of IT systems for productivity and competitiveness. This includes a view of the interaction between all the elements and phases of each system or subsystem during its lifecycle, with the goal to ensuring the overall system's performance, reliability and resilience are maintained while unintended events are minimized. Built for those without an undergraduate degree in engineering, it includes the suggested core outcomes for system engineering programs included in the 2015 INCOSE (The International Council on Systems Engineering) curriculum guidance publication.

### DEGREE REQUIREMENTS

▀ Courses are offered online

#### Core Courses (24 credit hours)

- ▀ MSCC 610 – Information Systems Concepts
- ▀ MSES 602 – Introduction to DevOps Engineering
- ▀ MSES 612 – Fundamentals of Systems Engineering
- ▀ MSES 614 – Systems Architecture & Design
- ▀ MSES 618 – Systems Integration (Continuous Integration)
- ▀ MSC1 680 – Information Technology Project Management
- ▀ MSCC 697 – Information Technology Research Methods
- ▀ MSCC 630 – Enterprise Architecture

*MSES 612, MSES 614 and MSES 618 must be completed in order, and cannot be taken simultaneously as each is a prerequisite to the following course. MSCC 630 Enterprise Architecture should be completed as the second to last class of the program just prior to the Graduate Capstone or Systems Practicum.*

#### Degree Electives

*Choose three from the following electives.*

- ▀ MSES 622 – Requirements Engineering
- ▀ MSES 642 – Deploying and Managing a Cloud Infrastructure
- ▀ MSES 692 – Systems Engineering Practicum I
- ▀ MSCT 650 – High Availability and Disaster Recovery Systems
- ▀ MSCT 662 – Storage Area Networks
- ▀ MSCD 600 – Database Architecture
- ▀ MSIA 674 – Planning and Implementing Architecture Security

#### Degree Completion Requirement

This is a project course where the student is evaluated on how well they can apply what has been presented in their prior coursework to a major project. Students can choose one course from the following to meet this requirement:

- ▀ MSCC 693 – Graduate Capstone
- ▀ \*MSES 696 – System Engineering Practicum II

*MSES 696 System Engineering Practicum II requires the enrollment and completion of MSES 692 System Engineering Practicum I. All degree completion requirements require the completion of MSCC 630 Enterprise Architecture.*

### ADMISSION REQUIREMENTS

- ▀ Completed online application with \$50.00 fee
  - ▀ Official degree-bearing transcript(s)
  - ▀ Resume
  - ▀ Essay
  - ▀ Minimum 3.0 GPA
  - ▀ Relevant work experience or relevant bachelor's degree
- To start your application and learn about additional admission requirements, visit [Regis.edu/apply](http://Regis.edu/apply)

### TUITION (2018-19 ACADEMIC YEAR)

- ▀ Tuition: \$780 per credit hour
- ▀ \$75 Technology Fee (per course)

### FINANCIAL AID

In 2017-18, Regis University provided more than \$134 million in federal, state and institutional financial aid to its eligible students. To learn more about financial aid options, contact the Financial Aid Office at 800.568.8932 or visit [Regis.edu/financialaid](http://Regis.edu/financialaid).

### CLASSES START SOON

Please visit the academic calendar to see when classes start at [www.Regis.edu/Calendar](http://www.Regis.edu/Calendar)

GET STARTED TODAY

Working with you one-on-one, your Regis admissions counselor can help you decide which program is the best fit for your goals, what options can save you time and money and assist with the online application process.

800.944.7667 [ruadmissions@regis.edu](mailto:ruadmissions@regis.edu)  
[Regis.edu/CCIS](http://Regis.edu/CCIS)

Regis University is regionally accredited by the Higher Learning Commission.

