

## ADDITIONAL COURSES

### MGM 2300 **RISK MANAGEMENT AND HAZARD IDENTIFICATION**

A risk management approach in aviation is an important tool, allowing decision makers to enhance organizational and operational safety. In this course, students will learn risk management principles to continually identify, assess, control, and eliminate risks. Students will learn how to handle personnel involved in the hazard ID and risk control process, as well as identify safety problems that come with the management of aviation resources and develop programs to prevent costly accidents.

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Aeronautical University

# AIRPORT OPERATIONS

CERTIFICATE PROGRAMS  
& COURSES

Offered by the Office of Professional Education

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## AIRPORT PLANNING, DESIGN AND DEVELOPMENT

### CERTIFICATE PROGRAM

The Airport Planning, Design and Development Professional Education Professional certificate of completion, offered online by Embry-Riddle Aeronautical University – Worldwide, introduces students to the vast and complex issues of airport planning. Our experienced faculty address how social, regulatory and political changes have influenced today's planning and design.

#### MGM 2500 AIRPORT PLANNING AND DESIGN

The essential elements of current U.S. and international airport planning and design trends, including airport master planning, layout plans, geometric design and layout of the airfield and terminal facilities, are covered in this course.

#### MGM 2600 AIRPORT TERMINAL DESIGN

Terminal design, with emphasis on airport history, airport components and how terminals are configured, landside configurations and the business of airports, are discussed in this course. Students will also learn the business of airports and study contemporary domestic and international terminals.

#### MGM 2700 AIRPORT SUSTAINABILITY AND ENVIRONMENTAL MANAGEMENT

Examine sustainability pillars, definitions, regulations and International Civil Aviation Organization (ICAO) Member State compliance in-depth in this online course, with application to airport operations, best practices, and decision-making processes. Students will also analyze the impact of airport operations with respect to greenhouse emissions, noise, air, water pollution, and other environmental risks.

#### MGM 2900 AIRPORT SECURITY *ELECTIVE*

The historical development of airport and aviation security is reviewed, as well as threats and security issues raised by those threats are discussed in this course. Current security regulations and laws are reviewed, including a discussion of their implementation in the form of a security plan. The course content also addresses physical security, crime prevention, cybersecurity issues, the roles of security personnel, response to emergencies and departmental cooperation at airports.

#### MGM 3100 AIRPORT SAFETY AND CERTIFICATION *ELECTIVE*

This course provides a review and analysis of all Federal regulations, safety studies, and advisory circulars applicable to the safe planning, design, and conduct of airport facilities and operations. Course content includes requirements for airport certification, as well as airport environmental protection and occupational safety compliance.

## AIRPORT RISK MANAGEMENT AND SAFETY

### CERTIFICATE PROGRAM

Understanding risk and safety management is key to airport operations. Whether you are new to a job within airport risk management, a new supervisor with risk management responsibilities or are in a non-aviation industry and will be working on an airport, this certificate will provide you with a broad understanding of risk management.

#### MGM 2000 SAFETY MANAGEMENT SYSTEMS

This course examines aspects of Safety Management Systems (SMS) for aviation flight and ground safety. Students are familiarized with the components, pillars, roles and responsibilities of SMS. Course content also provides an overview of safety within an organization, as well as investigations and human factors as they relate to aviation safety.

#### MGM 2800 AIRPORT & AVIATION RISK MANAGEMENT AND INSURANCE

Designed specifically for airport, airline and general aviation personnel, as well as those servicing the aviation industry, this course provides students with an overview of airport/aviation risk management and insurance principles. Students will learn about risk and its treatment, fundamental legal principles, liability risk, commercial property and liability insurance, government regulations, safety management systems and enterprise risk management. The course also examines the evolution of the US and London aviation insurance marketplace after 9/11.

#### MGM 2900 AIRPORT SECURITY

The historical development of airport and aviation security is reviewed, as well as threats and security issues raised by those threats also are discussed in this course. Current security regulations and laws are reviewed, including a discussion of their implementation in the form of a security plan. Course content also addresses physical security, crime prevention, cybersecurity issues, the roles of security personnel, response to emergencies and departmental cooperation at airports.

#### MGM 3100 AIRPORT SAFETY AND CERTIFICATION

This course provides a review and analysis of all Federal regulations, safety studies, and advisory circulars applicable to the safe planning, design, and conduct of airport facilities and operations. Course content includes requirements for airport certification, as well as airport environmental protection and occupational safety compliance.