

# AVIATION MANAGEMENT (AVM)

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## AVM1440 AIRPORT AND AIRLINE SECURITY (3.00 Credits)

An introduction and analysis of the regulations and laws governing airport and airline security, including an in-depth look at Federal Aviation Regulations 49 CFR 1544, FAR Part 121, 129, and 49 CFR 1520; Topics of discussion include: a historical perspective and events that have led to the evolution of aviation security; preventive measures, and current trends in security; an introduction to terrorist activities, motives, weapons of mass destruction, and countermeasures at threats to aviation.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

## AVM1940 AIRPORT OPERATIONS INTERNSHIP I (3.00 Credits)

Practical application of acquired knowledge at a certificated airport. Student exposed to airside related environment including: airfield inspections; security inspections and enforcement; air traffic control system; navigational aids; airspace inspections & familiarizations; wildlife issues; environmental impacts; landside issues such as parking management, ground transportation systems; operational contract administration; revenue control systems; equipment monitoring; and bus operations; terminal building operations including, physical building inspections, passenger services, passenger flow characteristics; tenant and contractual lease requirements; safety and security of passenger terminals. The student is introduced to airport maintenance programs and systems as well as general aviation environment. Requires special application and criminal background check.

Prerequisite: instructor's permission or

Total Contact Hrs: 144.00

Other Hrs: 144.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: AVM1440 (minimum grade: C) and AVM2301 (minimum grade: C) and AVM2410 (minimum grade: C)

## AVM2301 GENERAL AVIATION MARKETING AND MANAGEMENT (3.00 Credits)

This course is designed to provide an overview of the general aviation industry including its history and important role within the air transportation sector of the economy. The varied uses of general aviation aircraft and the management and marketing role of the fixed base operator are thoroughly explored. Included are the basic marketing concepts and procedures involved in the sale of general aviation aircraft and components to private industry and government. Particular emphasis will be placed on the management of corporate/business aircraft and commuter airlines.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

## AVM2410 AIRPORT MANAGEMENT (3.00 Credits)

Provides a comprehensive examination of the major functions of airport management and the concepts underlying airport planning and construction. The controlling factors in the development of an airport, such as size and forecasting volumes, design considerations; including runways configurations, site, location requirements, master planning and zoning laws will be examined. The socioeconomic effect of airports on the communities they serve will be explored.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Fees: LABORATORY FEE \$7.00

## AVM2450 AIRPORT PLANNING AND DESIGN (3.00 Credits)

Introduction to the initial design of airports and adaptations made as airports experience growth. Topics of discussion include: analysis of runway and taxiway design, terminal ramp areas, terminal facilities, airport parking and roadway systems based on airport capacity forecasts; intended use, funding, and community demographics. Discussions also include the modification and adaptation of existing airport facilities, airport master plans, air cargo facilities, airport access, and environmental impacts of airport planning and design.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Fees: LABORATORY FEE \$7.00

## AVM2510 AIRLINE MANAGEMENT (3.00 Credits)

An introduction to the administrative aspects of airline operation and management. Topics include the structure of the airline industry in the United States including first, second, third level carriers, the annual profit plan, uniform system of accounts and reports, organizational planning, demand analysis, scheduling, the theory of pricing, fleet planning, facilities planning and airline financing.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

AVM2941 AIRPORT OPERATIONS INTERNSHIP II (3.00 Credits)

Practical application of acquired knowledge at a certificated airport. The student will be exposed to the finance, business, legal, and public relations aspects of Airport Management. Intern will: gain experience in the collection of rents and allocation of monies in airport operation. receive knowledge on how grant money is applied for and received as well as the business aspect of leasehold compliance; exposure to legal aspect of airport operation, including compliance with federal and state laws, liability claims and procedures. Exposure to Airport Planning, Airport Master Plan, construction and refurbishment of airport facilities, airport layout plan, and airspace studies. Work with airport public relations and marketing personnel on communicating with media and marking the airport as a business enterprise toward potential airlines and tenants. Requires special application and criminal background check. Prerequisite: instructor's permission or

Total Contact Hrs: 144.00

Other Hrs: 144.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: ASC2320 (minimum grade: C) and AVM1940 (minimum grade: C) and AVM2450 (minimum grade: C) and AVM2510 (minimum grade: C)

AVM3030 CUSTOMER RELATIONS IN AVIATION (3.00 Credits)

This class covers customer relations concepts as well as the application of good customer relations behaviors within an aviation-related organization.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

AVM3302 AVIATION SALES AND MARKETING (3.00 Credits)

This course covers basic marketing principles as they relate to the aviation industry and includes marketing research and marketing plan development. The unique aspects of the aviation industry such as seasonal demand, fluctuating fuel prices, social, economic, and political change will be covered as they result to the marketing plan.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

AVM3443 AVIATION CONTINGENCY PLANNING & EMERGENCY MANAGEMENT (3.00 Credits)

This course covers all areas of aviation contingency planning and emergency management to include a review of incidents, accidents, safety studies, accident investigations and changes which would in mitigate future risks. There is an emphasis on human factors including CRM and SMS as well as risk management concepts.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

AVM3522 AIRLINE OPERATIONS I (3.00 Credits)

The organizational structures of aviation organizations as well as the roles and responsibilities of airline personnel are covered. Communication with passengers and airline personnel regarding flight status as well as on-time operations is also covered.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

AVM3600 HUMAN RESOURCE MANAGEMENT IN AVIATION (3.00 Credits)

This class covers all aspects of human resource management in the aviation industry to include hiring, training, and disciplining as it relates to the role of the first-line supervisor's responsibilities. Aviation-related screening issues are also covered.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

AVM3630 EMPLOYEE RELATIONS IN AVIATION (3.00 Credits)

This class covers employee relations principles as it relates to the aviation industry. Issues in the diverse workplace and issues involving union contracts and negotiations are also covered. How a first-line supervisor should handle a multitude of employee issues will also be covered.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

AVM4160 AVIATION PLANNING (3.00 Credits)

The planning process as it relates to the complexities of the aviation industry is covered along with different planning techniques with emphasis on the role of the first-line supervisor in the organizational planning process. The strategic planning process and its connection to the overall organizational budget are also covered.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

AVM4170 AVIATION PROJECT MANAGEMENT (3.00 Credits)

This class covers aviation-related project management concepts and applications. By the end of the term the student will identify and carry out an aviation-related project demonstrating their project management skills.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

**AVM4180 QUALITY ASSURANCE IN AVIATION (3.00 Credits)**

This course covers the various types of total quality management systems (TQM) that are used in the aviation industry and the role of the first-line manager in contributing to the quality assurance program.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

**AVM4516 DOMESTIC AVIATION OPERATIONS (3.00 Credits)**

This class covers all the operational aspects of an aviation operation which operates within the United States including managing the facility, people, and product or services. It emphasizes the management responsibilities of a supervisor in insuring a successful operation.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

**AVM4523 AIRLINE OPERATIONS II (3.00 Credits)**

This course continues Airline Operations I and covers fueling, loading, station operations, ground support equipment, cold weather operations, and the roles and responsibilities of airline personnel.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Prerequisite: AVM3522 (minimum grade: C)

**AVM4540 AVIATION FINANCE (3.00 Credits)**

This class covers financial issues and operations in the aviation environment. It includes budgeting, capital outlay planning, cost/benefit analysis, and financial statement interpretation.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Prerequisite: ACG2001 (minimum grade: D)

**AVM4700 INTERNATIONAL AVIATION OPERATIONS (3.00 Credits)**

This class covers aviation operations in an international environment. The addition of language, culture, religion, international regulatory bodies, tariffs, duties, customs, and US Customs and Border Protection (CBP) and how they impact the operation will be covered.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00