

Aviation Management (AVMG)

AVMG 321 Aviation/Aerospace Systems Analysis Methods 3 Credits (3,0)

System development life cycle with emphasis on current system documentation using both classical and structured tools/techniques for describing process flows, data flows, data structures, file designs, input and output designs, and program specifications.

Prerequisites: MMIS 320

Course Offered at: Daytona Beach

AVMG 322 Aviation Insurance 3 Credits (3,0)

Principles of insurance and risk with special application to the aviation industry; in-depth review of the aviation insurance industry in the United States, including the market and types of aviation insurers.

Prerequisites: MGMT 201 and Sophomore standing

Course Offered at: Daytona Beach, Prescott

AVMG 327 Airline-Airport Operations 3 Credits (3,0)

Dynamic relationship between airlines and airports; day-to-day challenges and current issues facing airline and airport management; operational characteristics, regulatory implications, political and financial environment, and air service development through historical and contemporary perspectives.

Prerequisites: MGMT 201

Course Offered at: Daytona Beach, Prescott

AVMG 399 Special Topics in Aviation Management 1-6 Credit (1-6,0)

Individual, independent, or directed studies of selected topics in aviation management.

Course Offered at: Daytona Beach, Prescott

AVMG 408 Airport Management 3 Credits (3,0)

Management of airports with emphasis on facilities that make up an airport system, including airspace, airfield, terminal, and ground access operations.

Prerequisites: MGMT 201

Course Offered at: Daytona Beach, Prescott, Worldwide, Asia

AVMG 412 Airport Planning and Design 3 Credits (3,0)

Principles and essential elements of U.S. and international airport planning and design trends; airport master planning and layout plans, geometric design, layout of airfield and terminal facilities, obstruction analysis, signage and lighting, forecasting, airside and landside interface, capacity and delay effects, and environmental planning.

Prerequisites: AVMG 408 and STAT 211 or STAT 222

Course Offered at: Daytona Beach, Prescott, Worldwide, Asia

AVMG 415 Airline Management 3 Credits (3,0)

Administrative aspects of airline operation and management; annual profit plan, uniform system of accounts and reports, demand analysis, scheduling, pricing theory, fleet planning, facilities planning, and airline financing.

Prerequisites: MGMT 201

Course Offered at: Daytona Beach, Prescott, Worldwide, Asia

AVMG 419 Aviation Maintenance Management 3 Credits (3,0)

Organizational maintenance policies, programs, and procedures with emphasis on maintenance planning, forecasting and cost control, reliability, safety, and flight schedule performance; capstone course for AOC in Maintenance Management for Aviation Maintenance Science (AMS) degree.

Prerequisites: MGMT 201 and STAT 222

Course Offered at: Daytona Beach

AVMG 422 Life Cycle Analysis for Systems and Programs in Aviation/Aerospace 3 Credits (3,0)

System theory and its relationship to aviation/aerospace systems management; system life cycle phases; system design and support, including reliability, maintainability, availability, testing, quality control, customer support, product improvement program analysis, and the role of data collection and analysis in the operational phase; cost-effectiveness analysis and project management; aviation/aerospace applications and case studies.

Prerequisites: MGMT 201 and STAT 222

Course Offered at: Daytona Beach

AVMG 424 Project Management in Aviation Operations 3 Credits (3,0)

Project management operations and procedures following Project Management Institute guidelines; focus on tools for enhancing control over budget, schedule, staffing, resource allocation, and performance requirements; Lean, Agile, and Critical Chain project management techniques and application.

Prerequisites: STAT 222 or MATH 241

Course Offered at: Daytona Beach

AVMG 425 Trends and Current Problems in Air Transportation 3 Credits (3,0)

Skills for identifying trends and current problems in air transportation; trends related to market growth, airline network structure, competition, schedule change, aircraft size change, pricing, delays, on-time performance, and financial conditions; use of databases for data extraction, descriptive and statistical analysis, and deriving conclusions.

Prerequisites: MGMT 201

Course Offered at: Daytona Beach, Prescott

AVMG 426 International Aviation Management 3 Credits (3,0)

International aviation management and its three elements: nature of international aviation business, working in a foreign environment, and managing in an international environment.

Prerequisites: MGMT 201

Course Offered at: Daytona Beach, Worldwide, Asia

AVMG 499 Special Topics in Aviation Management 1-6 Credit (1-6,0)

Individual, independent, or directed studies of selected topics in aviation management.

Course Offered at: Daytona Beach, Prescott, Worldwide