AVIATION (AVN)

AVN 8020 AVIATION MANAGEMENT AND POLICY (3 credits)
The purpose of the course is to acquaint students with advanced concepts of aviation administration and the implementation of aviation policy within the public sector and to identify key concepts and critical issues both domestic and international. The primary focus is to explore the various factors that have resulted from the formation and enactment of aviation and transportation regulatory issues. (Cross-listed with PA 8020).
Prerequisite(s)/Corequisite(s): Not open to non-degree graduate students.

AVN 8030 INTERNSHIP IN AVIATION ADMINISTRATION (1-6 credits)
A maximum of 6 hours to be granted upon completion of written report on internship. The internship will be in some area of aviation administration: national, state, local or non-profit agency and in some instances public-oriented private agencies. Students will take the course as Credit/No Credit. May be taken for a maximum of 6 hours of credit.
Prerequisite(s)/Corequisite(s): Permission of aviation graduate program coordinator.

AVN 8040 INTERN IN AVN ADMIN (1-6 credits)
A maximum of 6 hours to be granted upon completion of written report on internship. The internship will be in some area of aviation administration: national, state, local or non-profit agency and in some instances public-oriented private agencies. Students will take the course as Credit/No Credit. May be taken for a maximum of 6 hours of credit.
Prerequisite(s)/Corequisite(s): Permission of aviation graduate program coordinator.

AVN 8050 TRANSPORTATION SECURITY (3 credits)
This course explores contemporary issues in transportation by applying lessons learned from the historical development of national and international transportation security in the post 9/11 world. Topics include the influences of crime and terrorism on the conduct of transportation operations; the role of government in the formulation of transportation security policies, procedures, and practices; the study of individual airport, seaport, rail, and highway security systems; and contemporary passenger and cargo screening issues. Strategies and efforts to counter current and emerging threats will also be examined.
Prerequisite(s)/Corequisite(s): AVN 8050, PA 8100, PA 8090 (May be taken concurrently with AVN 8045)

AVN 8070 CASE RESEARCH (3 credits)
The purpose of this course is to introduce the student to key concepts through the caseworking method of interactive learning. Issues within the public sector will be explored. The caseworking experience integrates key issues and concepts. This opportunity allows the student to explore specific topical areas through the case research method. (Cross-listed with PA 8070)

AVN 8086 AIRPORT SAFETY AND SECURITY (3 credits)
This course will explore the role of airports in relation to safety and security. Topics will include regulations, responsibilities, security issues, ramp safety, disaster preparedness, and emergency management. (Cross-listed with AVN 4080).
Prerequisite(s)/Corequisite(s): AVN 1000 or its equivalent or permission of the instructor.

AVN 8095 AIRPORT ADMINISTRATION AND PLANNING (3 credits)
The course covers the principles of airport master planning. Fundamental principles of airport layout and design include runway configuration, airside/landside technology, passenger and cargo terminal. Capacity and delay effects will be emphasized. (Cross-listed with AVN 3090).

AVN 8100 ADVANCED MANAGEMENT AND LEADERSHIP FOR PUBLIC AND NONPROFIT PROFESSIONALS (3 credits)
This course is designed to advance students' understanding and techniques about the role of leadership and ethics in the public and nonprofit sectors. Special attention will be paid on the application of theories of leadership and ethics to manage various boundary spanning activities including managing external relationships, collaborations/networks, performance, and innovation and change. (Cross-listed with PA 8100)
Prerequisite(s)/Corequisite(s): PA 8050 and PA 8090. Not open to non-degree graduate students.

AVN 8106 MARKETING IN PUBLIC, NON-PROFIT AND AVIATION ORGANIZATIONS (3 credits)
This course will focus on developing a working knowledge of marketing and its component parts as they may be applied to non-profit organizations. Emphasis will be placed on understanding the marketing process and applying marketing principles to real organizational settings. (Cross-listed with AVN 4100)
Prerequisite(s)/Corequisite(s): Graduate and permission of instructor, and PA 8010, PA 8090.

AVN 8120 ANALYSIS AND DECISION MAKING (3 credits)
This course assists students to develop their skills in research design and data analysis, covering both qualitative and quantitative data relevant to public affairs. The course introduces students to the fundamentals of research design, data collection, data and statistical analysis, and drawing pertinent policy and management recommendations. (Cross-listed with AVN 8120).
Prerequisite(s)/Corequisite(s): Not open to non-degree Graduate Students.

AVN 8155 AVIATION LAW (3 credits)
This course will increase the student's knowledge of aviation law. Particular attention will focus on the manner in which legal forces affect the aviation system. (Cross-listed with AVN 3150).
Prerequisite(s)/Corequisite(s): AVN 1000 or equivalent or instructor permission.

AVN 8250 AIRPORT ADMINISTRATION (3 credits)
AVN 8250 provides an extensive overview of the responsibilities associated with the operation and administration of public airports. Federal policies and regulations, contemporary and emerging management issues, and accepted practices related to the operation and management of commercial service and general aviation airports as an integral component of the national and international transportation system will be examined.

AVN 8255 AVIATION MAINTENANCE ADMINISTRATION (3 credits)
This course is designed to introduce the student to the basic concepts related to managing an aviation maintenance facility. Topics to be covered include regulatory requirements, responsibilities, procedures, applications of maintenance concepts, professional development, safety, and current issues related to the field of maintenance management. (Cross-listed with AVN 3250).
Prerequisite(s)/Corequisite(s): AVN 8020

AVN 8360 TRANSPORTATION SAFETY (3 credits)
Safety is a fundamental concern in any transportation mode and a required competency for individuals working in any transportation or public works field. This course provides a thorough overview of the development and maintenance of safety policies and procedures for transportation activities. The federal Safety Management System (SMS) process including Quality Management Strategies using safety risk management (hazard identification, risk assessment and control) serves as the foundation for understanding the need to implement a safety culture stressing proactive v. reactive transportation safety program development and management.
Predictive tools and methods such as Gap Analysis (GA), Fault Tree Analysis (FTA), and data sharing approaches are explored. Environmental Protection and Occupational Health and Safety policy and programs affecting transportation mode safety are also examined.
Prerequisite(s)/Corequisite(s): PA 8050
AVN 8370 AIRPORT DEVELOPMENT (3 credits)
AVN 8370 focuses on the planning process and applied design criteria associated with the development of public airports. Federal, state, and regional systems, and specific airport master planning initiatives will be examined. Application of airport design standards and recommendations for the development of appropriate navigable airspace, airfield facilities, passenger terminals, and other components of the airport’s physical plant will be covered.
Prerequisite(s)/Corequisite(s): AVN 8250.

AVN 8480 SEMINAR IN PUBLIC FINANCIAL ADMINISTRATION (3 credits)
The study of public finance administration policy and technique areas. Emphasis is placed on the technical aspects of public finance administration with particular emphasis on the purposes, processes, and issues associated with particular techniques or technique areas. (Cross-listed with PA 8480).
Prerequisite(s)/Corequisite(s): PA 8050 or permission of department.

AVN 8510 AEROSPACE EDUCATION WORKSHOP (3 credits)
This course will focus on aviation and space education and its impact on society. It will seek to communicate knowledge, impart skill, and develop attitudes relative to the scientific, engineering and technical as well as the social, economic and political aspects of aviation and space flight efforts. (Cross-listed with TED 8510, STEM 8510).
Prerequisite(s)/Corequisite(s): Graduate standing.

AVN 8605 INTERNATIONAL AVIATION (3 credits)
This course examines global air transport and its impact on the development of the global economy. Lectures and readings will provide a solid foundation of historical knowledge about international air transport and its development in various countries, before exploring current policy debates about liberalization, global alliances, and other critical issues. (Cross-listed with AVN 3600).
Prerequisite(s)/Corequisite(s): AVN 8020 or permission of the instructor.

AVN 8626 AIRPORT PLANNING AND DESIGN (3 credits)
Planning and design of general aviation and air-carrier airports. Land-side components include vehicle ground access systems, vehicle circulation, parking and terminal buildings. Air-side components include aircraft apron, taxiway system, runway system and air traffic control facilities and airspace. Emphasis on design projects. (Cross-listed with AVN 4620)
Prerequisite(s)/Corequisite(s): CIVE 361 or permission from instructor.

AVN 8750 TRANSPORTATION FINANCE (3 credits)
This course focuses on the financial administration of public transportation facilities with a strong emphasis on commercial service airports. Areas of emphasis include: fiscal and managerial accounting strategies, capital development financing, revenue and cost centers, the economic impact of airports, airport performance measures. Current trends and issues associated with transportation finance are discussed.
Prerequisite(s)/Corequisite(s): PA 8010 and AVN 8020

AVN 8896 CRITICAL ISSUES IN AVIATION ADMIN (3 credits)
A study of timely as well as timeless issues in aviation. Topics will cover dynamic critical issues in the field of aviation. These issues emphasize recent and significant changes and evolutionary developments found in various components of the aviation industry. Students will need access to and a working knowledge of the World Wide Web. (Cross-listed with AVN 4990, PA 4890, PA 8896)

AVN 8906 SPECIAL TOPICS IN AVIATION (1-3 credits)
This course will address various topics in the Aviation Industry, determined each time the course is offered. Possible topics include international aviation, current issues and regulatory agencies within the industry, along with other topics. (Cross-listed with AVN 4900)

AVN 8920 READINGS IN AVIATION ADMINISTRATION (1-3 credits)
Specially planned readings in public administration for the graduate student who encounters scheduling problems in the completion of his degree program, or who has special preparatory needs and who is judged by the department to be capable of pursuing a highly independent course of study.
Prerequisite(s)/Corequisite(s): Eighteen hours in the MPA program or permission of graduate program committee.

AVN 8940 RESEARCH IN AVIATION ADMINISTRATION (1-3 credits)
The course is intended for advanced graduate students in public administration. It is especially suited for those in-career students who have had their internships waived and who might profit more by in-depth research on a problem of public administration rather than additional classroom courses.
Prerequisite(s)/Corequisite(s): Twenty-one hours in the MPA program or permission of the graduate program committee.

AVN 8980 THESIS (1-6 credits)
A research project, designed and executed under the supervision of the chair and members of the graduate student’s Thesis Advisory Committee. In this project, the student will develop and perfect a number of skills including the ability to design, conduct, analyze, and report the results in writing (i.e., thesis) of an original, independent scientific investigation. The project plan must be approved by the student’s Thesis Advisory Committee. (Cross-listed with PA 8980)
Prerequisite(s)/Corequisite(s): Graduate major in Public Administration and approval of Thesis Advisory Committee.

AVN 8996 AIR TRANSPORTATION (3 credits)
This course fulfills the Aviation Institute capstone projects for undergraduates. Lectures and readings will cover contemporary issues and problems in air transportation, as well as material related to research design and implementation. (Cross-listed with AVN 4990).

AVN 9900 ADVANCED TOPICS (3 credits)
This course provides a format for exploration of topics of interest to advanced students in public administration. Topics covered will change periodically in keeping with the interests of faculty and students. (Cross-listed with PA 9900)
Prerequisite(s)/Corequisite(s): Admission to PhD program in Public administration or permission of instructor.

AVN 9970 DIRECTED RESEARCH IN PUBLIC ADMINISTRATION (1-6 credits)
This course offers a structure for doctoral students to conduct advanced research in their chosen area of specialization. (Cross-listed with PA 9970).
Prerequisite(s)/Corequisite(s): Admission to Ph.D. program in public administration and permission of instructor.

AVN 9980 DIRECTED READINGS IN PUBLIC ADMINISTRATION (1-6 credits)
This course is designed to provide the advanced graduate student with the opportunity to do extended readings on a specialized public administration topic. (Cross-listed with PA 9980).
Prerequisite(s)/Corequisite(s): Admission to Ph.D. program in public administration and permission.