

k-state

study guide

kansas state university

Aviation Certificates

Unmanned Aerial Systems (UAS) Operators Certificate (UASOC)

9 hours required for completion

This certificate program provides students with solid foundational knowledge in the emerging and rapidly growing field of Unmanned Aerial Systems. The UAS Certificate prepares students to demonstrate the skills necessary to safely integrate the operation of Unmanned Aerial Systems into the national and international airspace systems and understand the complexities of Unmanned Aerial Systems integration into the airspace system and realize the hazards to air navigation if accomplished improperly.

Students shall demonstrate satisfactory subject matter mastery by earning a grade of “B” or better in each course within the certificate program.

In the final course (Unmanned Aerial Systems II) of the certificate program each student is required to pass a final comprehensive practical and written examination during which the students demonstrate, in an actual or electronically simulated environment, the procedures necessary to plan, execute (to include launch and recovery), and complete a successful mission involving using an Unmanned Aerial System to include payload integration.

Prerequisites for courses in this certificate necessitate basic airman certification and training by the FAA or its International Civil Aviation Organization (ICAO) member equivalent agency.

Requirements:

PPIL 270. Introduction to Unmanned Aerial Systems. (3)

PPIL 360. Unmanned Aerial Systems I. (3)

PPIL 460. Unmanned Aerial Systems II. (3)

Air Traffic Control Certificate (ATCC)

13 hours required for completion

This certificate program provides students with core foundational knowledge in the field of Air Traffic Control (ATC) in order to help meet a growing demand in the field. The Air Traffic Control Certificate program allows students to develop an understanding of the operational complexities of the national airspace system and an understanding of the responsibilities of the elements within the system, and understand the constraints of the current ATC system and relate these to the FAA’s future airspace system plan. The certificate builds on a basic knowledge of aviation flight theory and application and helps prepare students for FAA Air Traffic Controller Training.

Students shall demonstrate satisfactory subject matter mastery by earning a grade of “B” or better in each course within the certificate program.

Prerequisites for courses in this certificate necessitate basic airman certification and training by the FAA or its International Civil Aviation Organization (ICAO) member equivalent agency.

Requirements:

PPIL 240 Introduction to Air Traffic Control (3)

PPIL 342 Aviation Meteorology (4)

PPIL 440 Air Carrier Operations (3)

PPIL 442 Advanced Air Traffic Control (3)

Airport Management Certificate (AMC)

18 hours required for completion

The purpose of this certificate is to prepare students with foundational knowledge necessary for a job or career in airport management. Recognizing that airport management is a discipline unto itself, and recognizing that Kansas currently has 142 public-use airports with no formal training for the professional management of those airports, this certificate seeks to bridge that gap within the state.

Students shall demonstrate satisfactory subject matter mastery by earning a grade of “B” or better in each course within the certificate program.

The Airport Management Certificate (AMC) prepares students to assume an entry-level management position in airport management; provides an understanding of the complexities and structure of the FAA’s National Plan of Integrated Airport Systems and the critical role airports play in economic development; and prepares students to pass the certified manager (CM) exam administered by the American Association of Airport Executives (AAAE). Eighty percent of students will pass the AAAE CM test with a grade of 80% or better on the first attempt.

Requirements:

PPIL 250 Safety and Security of Airport Ground Operations (3)

PPIL 430 Corporate and Business Aviation Management (3)

PPIL 440 Air Carrier Operations (3)

PPIL 445 Aviation Law (3)

PPIL 460 Airport Planning and Management (3)

PPIL 461 Airport Certified Manager (3)