



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Air Traffic Control Fundamentals

AVIATN 2900

Credit Hours:

3.00 - 3.00

Course Levels:

Undergraduate (1000-5000 level)

Course Components:

Lecture

Course Description:

This course is an in-depth examination of the role and function of the Air Traffic Control environment as it relates to operations and pilot communications within the National Airspace System (NAS).

Prerequisites and Co-requisites:

Prereq: 2300, or permission of instructor.

Course Goals / Objectives:

- To understand the role of air traffic control within the aviation industry and national airspace system, including navigation and navigational aids; airspace; Enroute, radar, and non-radar operations; communication procedures and protocol.
 - To understand the roles and challenges of technology within the National Airspace System, as well as safety and environmental concerns.
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Course Topics:

- History of Air Traffic Control
 - National Airspace System, weather and weather impacts
 - Human factors, international operations
 - Research, NextGen, technology
 - Introduction to ATC systems, airlines, ATC operations, air carriers, communication, phraseology
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Designation:

Elective