Airport Planning, Design, and Development

AVIATN 5300

Credit Hours:
3.00 - 3.00

Course Levels:
Undergraduate (1000-5000 level)
Graduate (5000-8000 level)

Course Components:
Lecture

Course Description:
A comprehensive study of airport planning, design and development, the role of the airport and its components as part of the overall air transportation system, the issues related to the planning, design, and development of the airport and its system.

Prerequisites and Co-requisites:
Prereq: Aviatn 3000, CRPlan 3100, or Sr standing in CivilEn major, or Grad standing, or permission of instructor.

Course Goals / Objectives:
- Provide an understanding of airport planning, including design, site studies, master plans, environmental studies, development strategies, and economic impacts.
- Provide the practical knowledge to enter the airport planning and design field.

Course Topics:
- Airports and airport planning
- Airport environmental impacts and studies
- Airfield systems, runways, taxiways, safety areas
- Mechanical systems, lighting, signage, communications, NAVAIDS
- Airport services, terminals, ramps, hangars, tiedowns, fuel facilities.
- Airport access systems, airport security, ground vehicles.

Designation:
Elective