



**THE OHIO STATE UNIVERSITY**  
COLLEGE OF ENGINEERING

# Aviation Capstone: Aviation Engineering

## AVIATN 4520

**Credit Hours:**

3.00

---

**Course Levels:**

Undergraduate (1000-5000 level)

---

**Course Components:**

Lecture

---

**Course Description:**

The Aviation Capstone course is required of undergraduate students who are nearing completion of their studies. The course is designed to assess and build on skills acquired in earlier courses and emphasize situations and challenges that exist in industry. Capstone provides an opportunity to demonstrate and refine many professional competencies and communication skills.

---

**Prerequisites and Co-requisites:**

AVN 3200, Rank Four Enrollment, and aviation engineering major

---

**Course Goals / Objectives:**

- Students will have an understanding of the research process.
  - Students will be able to develop a research question through careful analysis of discipline specific literature.
  - Students will appreciate that everyone, including researchers, implicitly have biases that inform decision making.
  - Students will be able to work on multidisciplinary teams
-

**Course Topics:**

- Developing the research question/ hypothesis
  - Performing a literature review
  - Project management/ creating a project plan
  - Developing the methodology
  - Data collection and analysis
  - Qualitative analysis
  - quantitative analysis
  - writing/ presenting the findings
- 

**Designation:**

Required