

Graduate Certificate in Airworthiness Engineering

The Graduate Certificate in Airworthiness Engineering provides study in airworthiness engineering, including design, development, production, operation, and maintenance of crewed and uncrewed air systems.

The certificate consists of four advanced engineering courses that address airworthiness principles at the graduate level. The program is intended for students in the public and private sectors and is offered in a format that accommodates varied professional schedules and backgrounds.

Note: Certificate programs are not eligible for Title IV Federal Financial Aid unless taken as part of a degree program.

Program-Level Student Learning Outcomes

Students will:

- Effectively communicate technical and procedural information in written and oral forms to audiences in the aviation and aerospace disciplines.
- Describe the application of national and international civil and military regulatory frameworks to contemporary issues in air system certification.
- Perform engineering analysis using acceptable methods for substantiating airworthiness compliance to requirements.
- Recognize the importance of honest and ethical behavior concerning airworthiness in all their work, their spoken statements, and their written artifacts.
- Use investigative methods to derive innovative airworthiness compliance solutions over the life cycle.
- Explain airworthiness engineering principles and processes for selected technical discipline areas in air system certification.

Worldwide Certificate Requirements

AWEN 502	Airworthiness Process and Procedures	3
SYSE 505	System Safety and Certification	3
UNSY 500	Introduction to Uncrewed Aircraft Design	3
AWEN 510	Aircraft Airworthiness Engineering Principles	3
Total Credits		12