

SPACE MISSION AND OPERATIONS CERTIFICATE

Program Description

This certification program will provide students with a credential that is in high demand in many different disciplines/industries. The program provides a well-rounded suite of skills including a fundamental understanding of the space environment and orbital dynamics; the role space systems play in our everyday lives including economics, environmental monitoring, and national security; and pragmatic skills involved in the development and operations of space systems. Students involved in the Space Operations certification program will gain real-world experience through experiential learning at the Homestead Space Operations Complex at Chippewa County International Airport and have opportunities for co-op and internship positions with leading employers in the space industry. Each class is taught by a combination of LSSU faculty and visiting scholars from the space industry.

Program Learning Outcomes

- Demonstrate proficiency in Space mission operations and control
- Explain the fundamentals of Orbital Mechanics
- Synthesize the planning, execution, and support requirements for real-time space mission operations
- Demonstrate effectiveness as a team member

Requirements

Code	Title	Hours
SPAC 310	Introduction to Space Systems	3
SPAC 410	Space Operations Fundamentals	3
Total Hours		6

A minimum of 6 credits must be earned for graduation with a cumulative gpa of 2.50 or higher.