

AERONAUTICS AND SPACE SYSTEMS CERTIFICATE

The graduate certificate in Aeronautics and Space Systems is a convenient program for scientists and engineers to enhance and update their skills in modern high technology systems. The program is designed for project engineers and managers of Aerospace systems, and includes classes in a wide range of Aerospace systems, including spacecraft design, communication and optical systems, and propulsion.

Upon completion of the certificate program the student may apply to the M.S. program in Systems Engineering and have the courses completed for the certificate credited towards the M.S. degree.

Admission Requirements

- B.S. degree or higher in any engineering discipline, computer science, physics, or consent of the Graduate Director
- Two years' work experience is preferred

Graduation Requirements

Completion of three of the following courses (9 semester hours) with a 2.7 grade point average or higher:

| Code | Title | Semester Hours |
|--------------------------------|--|----------------|
| Select three of the following: | | 9 |
| SYEG 570 | Spacecraft Design | |
| SYEG 572 | Spacecraft Communications and Radar | |
| SYEG 584 | Occupy Mars: Explorations in Space Travel and Colonization | |
| SYEG 586 | Launch Vehicle Technology and Design Evolution | |
| SYEG 587 | Resilient Space Systems Design | |
| SYEG 588 | Satellite Guidance, Control, and Operations | |
| MECH 544 | Propulsion | |
| Total Semester Hours | | 9 |