

# SPACE SYSTEMS ENGINEERING, CERTIFICATE

Requirements for an undergraduate certificate may be completed at any campus location offering the specified courses for the certificate.

## Program Requirements

To earn an undergraduate certificate in Space Systems Engineering, a minimum of 12 credits is required.

Students must earn a C grade or better in each of the courses to continue with the certificate.

Code	Title	Credits
<b>Prescribed Courses</b>		
<i>Prescribed Courses: Require a grade of C or better</i>		
EE 474	Satellite Communications Systems	3
Select one of the following:		2-9
AERSP 401A	Spacecraft Design–Preliminary	
AERSP 401B	Spacecraft Design–Detailed	
AERSP 430	Space Propulsion and Power Systems	
AERSP 450	Orbit and Attitude Control of Spacecraft	
AERSP 492	Space Astronomy and Introduction to Space Science	
AERSP 497	Special Topics	
AERSP 550	Astrodynamics	
AERSP 597	Special Topics	
AERSP 597	Special Topics	
EE 472	Space Astronomy and Introduction to Space Science	
EE 474	Satellite Communications Systems	
Select one of the following:		3-9
AERSP 55	Space Science and Technology	
AERSP 309	Astronautics	
AERSP 540	Theory of Plasma Waves	
EDSGN 597	Special Topics	
EE 471	Introduction to Plasmas	
EE 477	Fundamentals of Remote Sensing Systems	
EE 534	Conformal Antennas	
EE 541	Manufacturing Methods in Microelectronics	
EE 576	Inversion Techniques in Remote Sensing	
EE 579	Microwave Radar Remote Sensing	
EE 580	Linear Control Systems	
EE 581	Optimal Control	
GEO SC 21	Earth and Life: Origin and Evolution	
GEO SC 474	Astrobiology	
METEO 477	Fundamentals of Remote Sensing Systems	
NUCE 490	Introduction to Plasmas	
NUCE 540	Theory of Plasma Waves	
STS 55	Space Science and Technology	

Students must complete an application. A project report must be submitted adhering to SPSYS Certificate formatting and systems content guidelines.

Prerequisites Required.