RADIO FREQUENCY ENGINEERING FOR AEROSPACE - GRADUATE CERTIFICATE

A joint certificate program between Smead Aerospace and the Department of Electrical, Computer & Energy Engineering. This certificate fills an industry need in Colorado and beyond for cross disciplinary graduate level education in aerospace and electrical engineering.

The program is open to new and current degree-seeking Aerospace Engineering Sciences (AES) and Electrical, Computer and Energy Engineering (ECEE) students. This certificate is not available to non-matriculated students.

Additional certificate information can be found on the department's Radio Frequency Engineering for Aerospace Certificate (https://www.colorado.edu/aerospace/current-students/graduates/curriculum/certificate-programs/radio-frequency-engineering-aerospace/) webpage.

Distance Education Option

Students can take individual courses toward a master's degree or graduate certificate through distance education (online). For more information, connect with the individual graduate program directly.

Requirements

Admissions Requirements

Candidates for admission must be a matriculated graduate student in the AES or ECEE departments. For certificate application and more details, visit the AES Certificates webpage (https://www.colorado.edu/aerospace/current-students/graduates/curriculum/certificates/).

This certificate is co-managed by AES and ECEE. Students must follow the rules and policies of each department. Courses from already awarded degrees cannot be used to fulfill certificate requirements.

Certificate Requirements

Six courses total (18 credit hours): four required courses (12 credit hours) and two elective courses (6 credit hours).

Grades of B or higher are required for fulfillment of requirements and certificate award. Students also pursuing other graduate certificates may not use the same courses to count for both certificates.

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•	Total Credit Hours		
	ECEN 5154	Computational Electromagnetics	
	or ECEN 5104	Passive Microwave Circuits	
	ECEN 5134	Electromagnetic Radiation and Antennas	
	ECEN 5114	Electromagnetic Theory	
	ASEN 5245	Radar and Remote Sensing	
	or ASEN 6028	Graduate Projects II	
	ASEN 5018	Graduate Projects I ³	
(Choose two:		6
I	Elective Courses		
	ECEN 3410	Electromagnetic Waves and Transmission ²	

- For students interested in taking both courses, one course can count as a requirement and one course can count as an elective. A single course cannot count as both a required course and an elective course, simultaneously.
- Note: ECEN 3410 will only meet graduate degree/MS requirements for AES students enrolled in the RF certificate.
- As an elective, choose whichever course *not* taken as a requirement.
- Approved radio frequency project; can only count for one elective (3 credit hours).