

Certificate

Advanced Engineering with a Concentration in Energy Systems Certificate

The Graduate Certificate in Energy Systems Engineering Program offers students and professionals the opportunity to further their knowledge with advanced study in the growing area of Energy Engineering. The program is aimed at providing understanding of energy engineering and the increasing role of energy engineers in addressing growing energy needs. The new skills and advanced understanding developed in class will prepare students for employment in rapidly growing energy industries.

Those who complete the Program receive the Advanced Engineering Certificate in Energy Systems Engineering from Old Dominion University and a letter of recognition from the Batten College of Engineering and Technology. Courses taken for the certificate program may also be applied to master’s level or doctoral graduate engineering programs at ODU, where they meet the program requirements.

Certificate Program Admission Requirements

- Baccalaureate degree in engineering—or a related field—from a regionally-accredited institution or an equivalent degree from a foreign institution.
- Those whose native language is not English must submit a minimum score of 230 on the computer-based TOEFL or 80 on the TOEFL iBT.

Certificate Program Curriculum Requirements

- Twelve credit hours of graduate course work
- A grade point average of 3.0 or better

Energy Engineering Core Courses		
CEE 759	Carbon-Free Clean Energy	3
CEE 859	Carbon-Free Clean Energy	3
Energy Engineering Electives *		
Select two of the following:		6
MAE 513	Energy Conversion	
CEE 559	Biofuels Engineering	
ENGN 697	Independent Study in Energy Engineering	
ECE 772	Fundamentals of Solar Cells	
ENGN 671	Carbon-Free Clean Energy	3
ENGN 672	Energy Systems Management	3
Total Credit Hours		18

* Appropriate course substitutions may be considered with permission of the Graduate Program Director.