

Graduate Certificate

Wind Power Science, Engineering and Policy

Wind power is a rapidly growing and evolving field that crosses traditional academic disciplines and increasingly requires practitioners who understand the relationships among the various components of wind turbines, the environment, regulations and society.

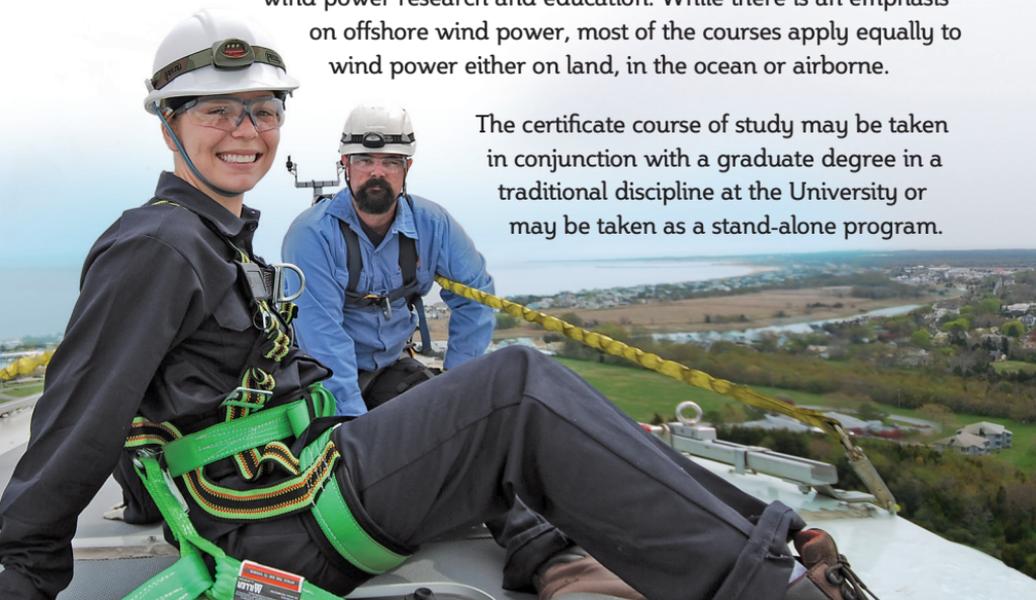
Those aspiring to work and advance in the field must have a basic understanding of wind turbine mechanical and electrical systems, including the integration of variable generation into the electrical grid, the multiple factors governing selection of optimum sites to locate wind power projects, the economics and regulatory policies governing wind power and the complex ways in which society's understanding and acceptance of renewable energy power generation can impact wind projects.



Interdisciplinary Research and Education

The Wind Power Science, Engineering and Policy graduate certificate from UD will provide evidence that the student has taken a broad range of courses covering these aspects at an institution known for its cutting edge interdisciplinary and collaborative wind power research and education. While there is an emphasis on offshore wind power, most of the courses apply equally to wind power either on land, in the ocean or airborne.

The certificate course of study may be taken in conjunction with a graduate degree in a traditional discipline at the University or may be taken as a stand-alone program.





Some courses may be taken remotely, but others are offered only via in-class attendance at UD's Newark or Lewes campuses.

Prospective Students

We anticipate that the program will appeal to three types of students:

- Students in a graduate program at UD who are looking to formalize their wind power expertise;
- Students who are focused on one specific area of wind power research, who want to broaden their understanding of interacting systems; and
- Working professionals who need to understand more about the wind industry.

Due to the interdisciplinary nature of wind power science, engineering and policy, courses are taught by faculty from marine science and policy, mechanical engineering, electrical and computer engineering, geography and geological sciences.



Admission and Requirements

Admission to this graduate certificate program requires an undergraduate degree from an accredited university or college. To attain the certificate, 12 credits must be completed as follows:

- 3 credits from the required course Offshore Wind Power: Science, Engineering and Policy
- A total of 6 credits from courses within the focus areas of Wind Power Science, Wind Power Engineering and Wind Power Policy
- 3 credits from elective wind power courses



For more information:

www.ceoe.udel.edu/windpower/education.html

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