The University of Pittsburgh Swanson School of Engineering has established an Electric Power Engineering Post-Baccalaureate/Graduate Certificate Program that rises to the challenge of meeting the nation’s critical development needs for electrical energy professionals. This is the only distance-enabled program in electric power engineering that allows students to attend classroom lectures in real time, and also allows synchronous participation remotely via the Internet. The program is deeply rooted in core electric power engineering principles and focuses on the expansion and enhanced reliability of electric power grid infrastructure through application of power electronics and advanced control technologies, as well as renewable energy integration and smart grids. Program content – combined with innovative distance-enabled delivery and collaborative program components – makes this program an attractive and unique choice in graduate engineering, particularly for individuals in industry/business.

**ELECTRIC POWER ENGINEERING CERTIFICATE CURRICULUM**

15 credit hours are required to complete the program.

Students may select any five of the following 3-credit courses:

- ECE 2774 Power System Engineering and Analysis II*
- ECE 2777 Power System Transients I*
- ECE 2250 Power Electronics Circuits and Applications*
- ECE 2646 Linear Control Systems Theory
- ECE 2795 Renewable and Alternative Energy Systems
- ECE 2795 Smart Grid Technologies and Applications
- ECE 2795 Advanced Power Electronics: FACTS and HVDC Technologies
- ECE 2795 Protective Relaying and Automation

*prerequisite required

**ADMISSION REQUIREMENTS**

BS in electrical engineering from an ABET-accredited university program (no industry experience required), OR

BS in engineering in any field, plus a minimum of three years of power industry experience (with program director permission).

For additional information and to apply: www.engineering.pitt.edu/powercertificate
## COURSES BY SEMESTER

<table>
<thead>
<tr>
<th>TERM</th>
<th>COURSES TO BE OFFERED</th>
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<tbody>
<tr>
<td>Fall 2013</td>
<td>ECE 2646 Linear Control System Theory</td>
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<tr>
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<td>ECE 2795 Advanced Power Electronics – FACTS and HVDC Technologies</td>
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<tr>
<td>Spring 2014</td>
<td>ECE 2774 Power System Engineering and Analysis II</td>
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<tr>
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<td>ECE 2250 Power Electronics Circuits and Applications</td>
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<td>Summer 2014</td>
<td>ECE 2795 Renewable and Alternative Energy Systems</td>
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<tr>
<td>Fall 2014</td>
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<td>ECE 2795 Smart Grid Technologies and Applications</td>
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<td>Spring 2015</td>
<td>ECE 2774 Power System Engineering and Analysis II</td>
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<td>ECE 2250 Power Electronics Circuits and Applications</td>
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<td>Summer 2015</td>
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</tbody>
</table>

Additional courses will be added in future semesters.

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### CONTACT INFORMATION

For more information about the Certificate Program in Electric Power Engineering, contact:

GREGORY REED, PhD  
Program Director,  
Director, Electric Power Initiative  
Associate Director, Center for Energy  
Associate Professor, Electrical and Computer Engineering Department  
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For more information about Distance-Learning Engineering Programs at the University of Pittsburgh, contact:

JANET L. LITTRELL, Ed.D.  
Director of Distance Learning  
Swanson School of Engineering  
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jll119@pitt.edu

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All courses may be completed via distance learning.