

# ENGINEERING LEADERSHIP DEVELOPMENT, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

## Program Description

This interdisciplinary minor is designed to provide engineering students with critical principles and skills. Engineering graduates must demonstrate the ability to assume leadership roles in a competitively technologically complex global society. There are increasing demands for engineers to be able to deal effectively with other people, including the ability to work in teams and to interact with customers and other organizations on both national and international levels. Students will employ engineering case studies in active and collaborative classroom settings to develop these skills. The minor consists of 18 semester hours. Students in all engineering majors are eligible.

## What is Engineering Leadership Development?

The Engineering Leadership Development (ELD) program focuses on providing a challenging, relevant, and dynamic world-class program that further engages students in their education while preparing them for leadership roles in a technical work environment. Courses in engineering leadership and development provide you with the understanding of individual, team, and organizational leadership; global competencies and multicultural awareness; and innovation and management. Skill sets of effective leaders are practiced in local and virtual international teams aimed at designing and building solutions for developing nations.

## You Might Like This Program If...

- You are interested in developing your leadership potential.
- You would like to increase your multicultural awareness and global competencies.
- You would like to enhance your innovation and management skills.

## Entrance to the Minor

For admission to the minor, students must have completed ENGR 408. Students should apply during their sophomore year.

## Program Requirements

Requirement	Credits
Requirements for the Minor	18

## Requirements for the Minor

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (<http://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10>).

Code	Title	Credits
<b>Prescribed Courses</b>		
<i>Prescribed Courses: Require a grade of C or better</i>		
ENGR 407	Technology-Based Entrepreneurship	3
ENGR 408	Leadership Principles	3

## Additional Courses

*Additional Courses: Require a grade of C or better*

Select 6 credits from the following:		6
ENGR 409	Leadership in Organizations or ENGR 422 Leadership of International Virtual Engineering Teams	
ENGR 405	Project Management for Professionals	
ENGR 496	Independent Studies	

## Supporting Courses and Related Areas

*Supporting Courses and Related Areas: Require a grade of C or better*

Select 6 credits in consultation with the coordinator of the Engineering Leadership Development Minor	6
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## Academic Advising

The objectives of the university's academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee's unit of enrollment will provide each advisee with a primary academic adviser, the information need to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (<http://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy>)

## University Park

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## Career Paths

### Careers

Penn State students with a minor in Engineering Leadership Development have been successful in establishing careers as team leaders, managers, and entrepreneurs, in a wide variety of engineering, research, and education fields.

MORE INFORMATION (<http://career.engr.psu.edu>)

## Opportunities for Graduate Studies

Students with a minor in Engineering Leadership Development may be interested in the School of Engineering, Technology, and Professional Programs' Master of Engineering in Engineering Leadership and Innovation Management, graduate certificate in Engineering Leadership in Innovation Management, or graduate minor in Engineering Leadership in Innovation Management or numerous other advanced engineering studies offered by the College of Engineering.

MORE INFORMATION (<http://sedtapp.psu.edu/eld/graduate-degrees.aspx>)

## **Contact**

### **University Park**

SCHOOL OF ENGINEERING DESIGN, TECHNOLOGY, AND PROFESSIONAL  
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