



**THE OHIO STATE UNIVERSITY**  
COLLEGE OF ENGINEERING

# Professional Development in College Teaching

## ENGREDU 7189.02

**Credit Hours:**

1.00 - 1.00

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**Course Levels:**

Graduate

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**Course Components:**

Lecture

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**Course Description:**

This course supplements teaching content based training by exposing teachers to instructional pedagogies. It is a practical extension of ENGREDU 7189.01. Topics include developing new teaching modules, creating training materials for fellow instructors, furthering techniques for reflection, etc. This version of the course is designed for experienced instructors.

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**Prerequisites and Co-requisites:**

Prereq: Grad standing in the College of Engineering.

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### **Course Goals / Objectives:**

- Formulate applications of engineering education to engineering practice and vice versa
  - Educate with attention to inclusion of multiple perspectives and demographics so that every student has the opportunity to learn
  - Design a course or other significant educational experience founded in learning theory explicitly addressing stakeholder needs
  - Analyze how multiple courses integrate into a curriculum
  - Instruct a course or other significant educational experience using appropriate and evidence- based pedagogical techniques
  - Assess and improve their own teaching through informed, inquiry- based practice
  - Develop effective tools to evaluate learning
  - Evaluate and improve student learning responsibly, equitably, and in alignment with learning outcomes
  - Design and implement evaluations/assessments of a variety of educational programming
  - Engage in professional activities with attention to inclusion of multiple perspectives and demographics in order to create synergy in the midst of differences
  - demonstrate effective leadership skills
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### **Course Topics:**

- Teaching Philosophies
  - Teaching Reviews
  - Curriculum Development
  - Critical Feedback and Reflection
  - Assessment and Evaluation
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### **Designation:**

Required