



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Future Academic Scholars Training I for MAE

MECHENG 8901

Credit Hours:

2.00 - 2.00

Course Levels:

Graduate (5000-8000 level)

Course Components:

Lecture

Course Description:

To provide Ph.D. students in the Department of Mechanical and Aerospace Engineering an opportunity to learn, understand, and practice aspects of effective teaching specific to mechanical, aerospace and nuclear engineering.

Prerequisites and Co-requisites:

Prereq: Enrollment in Mechanical, Aerospace, or Nuclear Engineering Ph.D. program; or permission of instructor.

Course Goals / Objectives:

- Identify common traits of successful teachers at the Ohio State University
 - Understand how student learning styles shape how a class is taught
 - Learn how to prepare to teach a class
 - Develop realistic and personal expectations of students in a class
 - Develop a personal style for conducting a class
 - Develop a personal style for relating to students in class
 - Feel comfortable with evaluating students through a variety of methods.
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Course Topics:

- Traits of Effective Teachers
 - Student Learning: Theory and experience
 - Student Learning: Practice, Discussion of class syllabi
 - Teaching Preparation: Theory and experience
 - Teaching Preparation: Practice, Discussion of student-created syllabi
 - Expectations for the Students: Theory and experience
 - Expectations for the Students: Practice Mock teaching exercise 1 this week
 - How to Conduct Class: Theory and experience
 - How to Conduct Class: Practice. Mock teaching exercise 2 this week
 - How to Treat Students: Theory and experience
 - How to Treat Students: Practice. Mock teaching exercise 3 this week
 - How to Evaluate Students and Teachers: Theory, experience, practice
 - Visit from members of the Academy of Teaching
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Designation:

Elective