



**THE OHIO STATE UNIVERSITY**  
COLLEGE OF ENGINEERING

# Principles of Welding Process Control

## WELDENG 7003

**Credit Hours:**

3.00 - 3.00

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**Course Levels:**

Graduate (5000-8000 level)

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**Course Components:**

Lecture

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**Course Description:**

Study of principles and practical application of control systems and control elements of welding processes.

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**Prerequisites and Co-requisites:**

Prereq: 7001 or 4001, and Grad standing; or permission of instructor.

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**Course Goals / Objectives:**

- Understanding of welding as a process
  - Acquaintance with the various technologies used to implement industrial process controls
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**Course Topics:**

- Introduction to welding processes & control
  - Relay logic controls
  - Servo motors
  - Programmable logic controls
  - Sensors
  - Computer data acquisition
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**Designation:**

Elective