EE 499: Industrial Process Control

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Description: EE 499 Industrial Process Control (3) The course focuses on the electronics, sensors and programmable devices used in industrial applications. Topics include thyristors, automation sensors, process control devices and sensors and programmable logic controllers.


Grading: There will be three equally weighted midterm exams. There will not be a comprehensive final. Homework assignments will be given on a weekly basis.

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<thead>
<tr>
<th>Item</th>
<th>Weight</th>
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<tr>
<td>Three Midterm Exams</td>
<td>60%</td>
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<tr>
<td>Projects</td>
<td>25%</td>
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<tr>
<td>Homework</td>
<td>15%</td>
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Class Policies: Students are expected to abide by the Academic Honor Code. No aid should be given or requested on any examination. Students may collaborate on homework (in fact, this is encouraged), but each student must submit their own work. Each student is expected to be able to recreate any homework solutions submitted.

Credit Hour Policy: This course meets the federal requirements of 15 in-class hours plus an expected 30 hours of out-of-class work per credit hour.

Disability Policy: It is the policy and practice of the University of Evansville to make reasonable accommodations for students with properly documented disabilities. Students should contact the Office of Counseling and Health Education at 488-2663 to seek services or accommodations for disabilities. Written notification to faculty from the Office of Counseling and Health Education is required for academic accommodations.

Topics:
1) Discrete Control Devices
2) Solid State Control Devices
3) Linear IC Control Devices
4) Thyristors
5) Automation Sensors and Devices
6) Process Control Devices and Sensors
7) Safety Devices
8) DC Motors and Drives
9) AC Motors and Drives
10) Special Purpose Motors
11) Programmable Logic Controllers
12) Control of Continuous Processes