

**Bergen Community College**  
**Division of Math, Science and Technology**  
**Department of Industrial Design Technology**

**Course Syllabus**  
**ELC 204 Electronics II**

Semester and year:  
Course Number:  
Meeting Times and Locations:

Instructor:  
Office Location:  
Phone:  
Office Hours:  
Email Address:

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<b>COURSE TITLE:</b>	<b>ELC 204</b> Electronics II
<b>COURSE CREDIT:</b>	4 Credits
<b>PREREQUISITE:</b>	Electronics I (ELC 203)
<b>COURSE DESCRIPTION:</b>	Electronics II is the second course in a two-course sequence in electronics. It builds upon the first course with a study of solid-state voltage and power amplifiers, emitter followers, field-effect transistors and circuits, thyristors, frequency effects, and op-amps.
<b>SPECIFIC OBJECTIVES:</b>	<ol style="list-style-type: none"><li>1. To prepare the student to think logically and creatively about the problems encountered.</li><li>2. To prepare the student for the job tasks relevant to a technologist's role in the field.</li><li>3. To study semiconductor diodes, transistors, amplifiers, and their applications.</li><li>4. Appropriate "hands on" experiments.</li></ol>
<b>TEXT:</b>	<b><u>Electronic Principles</u></b> , Seventh Edition, Albert P. Malvino, and David Bates, McGraw Hill, 2007, ISBN 13-978-0-07-297527-7
<b>LABORATORY:</b>	Lab experiments for diodes and transistors. Physical bread boards/circuit boards and Multisim simulated circuits.

**TOPIC OUTLINE:**

1. Voltage and Power Amplifiers
2. Emitter Followers
3. Field effect transistors
4. Thyristors
5. Frequency effects
6. Differential and Operational amplifiers
7. Negative Feedback
8. Linear Op-Amp Circuits

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