

EE 210: Circuits 1

Spring 2017 (3 credits)

Instructor:	Dr. Katherine Chandler Office: KC 258 Phone: 812-488-1351 E-mail: kc270@evansville.edu
Teaching Assistants:	Nathan Kabat E-mail: nk78@evansville.edu
Course Objectives:	By the end of this course, you will be able to analyze basic analog circuits containing resistors, capacitors, inductors, op-amps, and combinations of these components.
Course Text:	<i>Fundamentals of Electric Circuits</i> , 6 th edition Alexander and Sadiku (ISBN-13: 978-0073380575, ISBN-10: 0073380571)
Lab Kits:	Each student is required to purchase a tool kit consisting of a breadboard, oscilloscope probes, wires, alligator clips, etc. and a lab notebook from Vicky Hasenour in KC 266.
Prerequisites:	Mathematics 222, Corequisite: Mathematics 323 Knowledge and understanding of algebra, calculus, and general physics.
Office Hours:	Mon, Wed, Fri: 9:00 am – 11:00 am; 1:00 pm – 2:00 pm Tues, Thurs: 9:00 am – 11:00 am; 1:00 pm – 2:00 pm <ul style="list-style-type: none"> Other times for discussion are available by appointment; please see me in class or contact me via e-mail.
Drops and Adds:	The instructor will follow the UE guidelines for drops and adds. Thursday, April 7 is the last date to withdraw and receive a “W”. Consult the course schedule book or Vicky Hasenour in KC 266 for more information.

Academic Dishonesty:	Please just try your best and don't cheat (this includes cheating on exams, plagiarism, copying of homework, etc.). Violations will be handled in compliance with the guidelines established by the UE Academic Honor Code.
Disability:	If a member of the class feels that he/she has a disability and needs special accommodations of any nature whatsoever, please see me or the Counseling Center (Second Floor, Ridgway University Center) so that accommodations can be provided.

<p>Grading:</p>	<ul style="list-style-type: none"> • Homework: 15% • Labs: 20% • Midterm Exam: 25% • Final Exam: 35% • FlexGrade*: 5% <p><u>Grading Scale:</u></p> <p>A: 94 - 100 A-: 90 - 93 B+: 87 - 89 B: 83 - 86 B-: 80 - 82 C+: 77 - 79 C: 73 - 76 C-: 70 - 72 D+: 67 - 79 D: 60 - 66 F: 0 - 59</p> <p>*FlexGrade is at the instructor's discretion and includes considerations such as effort, participation, and improvement throughout the semester.</p>	<table border="1"> <caption>Grading Breakdown</caption> <thead> <tr> <th>Category</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Final Exam</td> <td>35%</td> </tr> <tr> <td>Midterm Exam</td> <td>25%</td> </tr> <tr> <td>Labs</td> <td>20%</td> </tr> <tr> <td>HW</td> <td>15%</td> </tr> <tr> <td>FlexGrade*</td> <td>5%</td> </tr> </tbody> </table>	Category	Percentage	Final Exam	35%	Midterm Exam	25%	Labs	20%	HW	15%	FlexGrade*	5%
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<p>Homework:</p>	<p>Homework will be given periodically throughout the semester and is due on the date indicated on each assignment.</p> <p>Students should submit completed homework in class.</p> <p>Please note that late homework will not be accepted; however, your lowest homework grade will be dropped.</p>													
<p>Exams:</p>	<p>There will be one midterm exam and a comprehensive final. Exam problems will be based on concepts reinforced on homework assignments and quizzes. There will also be 2 Lab Practicals that you will need to pass in order to pass the course.</p> <ul style="list-style-type: none"> • Lab Practical I: March 2, 2017 in class • Midterm Exam: March 16, 2017 in class • Lab Practical II: April 18, 2017 in class • Final Exam: April 27, 2017 at 2:00 pm in KC 137 													

Tentative Class Schedule

Chapter 1 - 2 Basic Concepts and Laws January 10 - January 19
Chapter 3 - 4 Methods and Theorems January 24 - February 28
Chapter 5 Op Amps February 28 - March 2

Lab Exam I, Thursday, March 2, 2017 in class

Midterm Exam (Ch. 1 - 5), Thursday, March 16, 2017 in class

Chapter 6 Capacitors and Inductors March 21 - March 30
7 - 8 1st and 2nd Order Circuits April 4 - April 11
9 AC Circuits April 13 - April 25

Lab Exam II, Tuesday, April 18, 2017 in class

Review Chapter 1 - 9 April 26

Final Exam: Thursday, April 27 at 2:00pm KC 137