
E-Text ISBN: 978-1-118-95599-4
Hardcover ISBN: 978-1-118-53929-3

Class Schedule: This class meets TR 8:00-10:00 in EPIC-2222.

Course Learning Outcomes: The objective of this course is for students to learn the fundamentals of ac circuit analysis.

Class Topics:

- AC Steady-State Analysis (Chapter 8)
- Steady-State Power Analysis (Chapter 9)
- Magnetically Coupled Networks (Chapter 10)
- Poly-Phase Circuits (Chapter 11)
- Variable-Frequency Network (Chapter 12)
- The Laplace Transform (Chapter 13)
- Application of the Laplace Transform to Circuit Analysis (Chapter 14)
- Fourier Analysis Techniques (Chapter 15).

Attendance Policy: Attendance in the lecture or recitation classes when quizzes or tests are scheduled is mandatory and a grade of zero will be assigned to any missed test or quiz. If you cannot attend a class period when a quiz/test is scheduled, your absence must be justified for a make-up quiz/test to be given. An example of proper justifications would be a doctor’s note in case you get sick. You need to notify me in advance with proper justification that explains why you cannot attend. I will then let you know whether or not your reason is justified. Without an acceptable prior notice, a grade of zero will be assigned. Attendance in the regular lecture classes is mandatory in that students are responsible to be always aware of what is discussed in class and what has been assigned.

Computer Usage: OrCAD Capture/PSpice and MATLAB will be used for circuit analysis.

Academic Integrity: Students are obligated to conduct themselves in accordance with the UNCC’s Code of Student Academic Integrity as stated in the 2015-2016 Undergraduate Catalog at

http://catalog.uncc.edu/content.php?catoid=6&navoid=327#The_Code_of_Student_Academic_Integrity

Disability Services: UNC Charlotte is committed to access to education. If you have a disability and need academic accommodations, please provide a letter of accommodation from Disability Services early in the semester. For more information on accommodations, contact the Office of Disability Services at 704-687-0040 or visit their office at Fretwell 230.
Grading: There will be homework, in-class quizzes, and three in-class tests. The weight of each item in determining the final grade is as follows:

<table>
<thead>
<tr>
<th>Item</th>
<th>% of Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework (quizzes will be based on HW problems)</td>
<td>0</td>
</tr>
<tr>
<td>Quizzes</td>
<td>25</td>
</tr>
<tr>
<td>Test 1</td>
<td>25</td>
</tr>
<tr>
<td>Test 2</td>
<td>25</td>
</tr>
<tr>
<td>Final Exam on August 9 (8:00-10:30 in EPIC-2222)</td>
<td>25</td>
</tr>
</tbody>
</table>

Grading Scale:
100 – 90 A   89– 80 B   79 – 70 C   69 – 60 D   59 – 0 F

Follow-up Courses: Passing this course with a grade of C or better is a pre-requisite for ECGR 3111, ECGR 3121, and ECGR 3131.

Instructor: Dr. Mehdi Miri, ECE Department, UNC Charlotte.

Office Hours: TR 10:00-11:30, or by appointment.

Office Location: EPIC-2337

Tel. & email: 704-687-8416 & miri@uncc.edu

Dates to be aware of:
- May 21: First Day of Classes (All day)
- May 22: Last Day to Add or Drop a Class with no grade * (All day)
- May 22: Last Day to change Grade Type (P/NC or Audit) (All day)
- May 22: Last day to submit a Grade Replacement Request * (All day)
- May 28: Memorial Day (No Classes) (All day)
- June 29-July 4: No classes
- July 10: Last day to withdraw from course (s); grade subject to Withdrawal Policy* Policy Information
- August 8: Last Day of Classes (All day)

*Online process available through My UNC Charlotte

Prepared by Dr. Mehdi Miri on May 21, 2018.