

EET 3725 - Electromechanical Systems

Fall 2026 Syllabus, Section 01, CRN 40820,

Credit hours: 3

Instructor

Charles Kohut

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Public Instructor Information

Instructor Title: Part-time Faculty

Instructor Professional Qualifications:

M.B.A., California State University, Fullerton, 1998

B.S., Electrical Engineering, Old Dominion University, 1980

Instructor Office Location: Moser Hall Room 4120

Instructor Office Phone: 330-941-3745

Course Description

3725. Electromechanical Systems. AC/DC circuit analysis techniques including network theorems, MultiSim computer circuit analysis with applications to AC/DC machinery, electronics, digital circuits and control systems. Three hours lecture per week. Concurrent with EET 3725L. Prereq.: C or better in MATH 1570. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Electricity and Electronics for Renewable Energy Technology	Ahmad Hemami	9781482261769

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Tue	8/25	Chapters 1-4	Energy and Electricity, Basic Mathematics & Systems of Measurement Units, Atomic Structure of Materials, DC and AC Electricity	1-3 Review items 4 Electricity HW#1 assigned
Tue	9/1	Chapter 5	Voltage, Current, and Power	HW#2 assigned Quiz#1 due
Tue	9/8	Chapter 6	DC Circuits Relationships	HW#3 assigned Quiz#2 due
Tue	9/15	Chapter 6	DC Circuits Relationships	HW#4 assigned Quiz#3 due
Tue	9/22	Chapters 1-6	ALL	Exam#1
Tue	9/29	Chapter 7	DC Motors and Generators	HW#5 assigned
Tue	10/6	Chapter 8	AC Circuits Relationships	HW#6 assigned Quiz#4 due
Tue	10/13	Chapter 8	AC Circuits Relationships	HW#7 assigned Quiz#5 due



Tue	10/20	Chapter 9	Three-Phase Systems	HW#8 assigned Quiz#6 due
Tue	10/27	Chapters 7-9	ALL	Exam#2
Tue	11/3	Chapter 10	Transformers	HW#9 assigned
Tue	11/10	Chapter 11	AC Motors and Generators	HW#10 assigned Quiz#7 due
Tue	11/17	Chapter 22	Digital Electronics	HW#11 assigned Quiz#8 due
Tue	11/24	Chapter 23	Logic Circuits and Applications	HW#12 assigned Quiz#9 due
Tue	12/1	Misc.	Misc.	Quiz#10 due
Tue	12/8	Chapters 10-11, 22-23	Final Exam	Tuesday December 8th 5:30PM -7:30PM

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.