

AC/DC Motor Controls (INTC 1457 6B1)

CREDIT

4 Semester Credit Hours (3 hours lecture, 4 hours lab)

MODE OF INSTRUCTION

Face-to-Face

PREREQUISITE/CO-REQUISITE:

CETT 1403 & CETT 1405

COURSE DESCRIPTION

A study of electric motors and motor control devices common to a modern industrial environment. A presentation of motor characteristics with emphasis on starting, speed control, and stopping systems.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to

1. Describe the types of electric motors.
2. Explain the operation and function of various motor control devices.

INSTRUCTOR CONTACT INFORMATION

Instructor: Chelsea Hoke

Email: clhoke@lit.edu

Office Phone: 409-247-4936

Office Location: PATC 206

Office Hours:

Monday/Wednesday 10:00am-11:00am

Tuesday/Thursday 8:30am-9:00am

REQUIRED TEXTBOOK AND MATERIALS

1. *Electrical Motor Controls 5th Edition* by Gary J. Rockis & Glen A. Mazur
 - a. ISBN number is 9780826912268
2. *Electrical Motor Controls 5th Edition Workbook*
 - a. ISBN number is 9780826912275
3. Notebook
4. Pencils (NO WORK IN PEN WILL BE ACCEPTED)

ATTENDANCE POLICY

Students must be in class in order to complete lab activities for that day.

1. Missing 20% (6) or more of classes will result in an automatic 30 points off your **FINAL GRADE**.
2. Missing more than 20% of a class period will count as an absence.

Approved: 01/15/2026



**LAMAR INSTITUTE
OF TECHNOLOGY**

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an “F” in the course.

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

EXAMS*- 30%

Labs (Daily & Lab Exams)- 50%

Quizzes/Assignments- 20%

*There will be 4 major EXAMS and a FINAL EXAM. If you choose to *not* take the FINAL, your Exam Average of your first 4 exams will be used as your FINAL EXAM grade.

GRADE SCALE

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles’ Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

ARTIFICIAL INTELLIGENCE STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

COURSE CALENDAR

Due dates are subject to change. Please refer to Blackboard for official due dates and course schedule updates.

Assignment Name	Due Date and Time	Location
Practice Syllabus Quiz Practice Assignment Introduction Discussion Netiquette Discussion	Sunday, January 25, 2026	Getting Started Folder
Bench Lab 1- Intro Lab	Wednesday, January 28, 2026	In Class
Chapter 2 Review	Sunday, February 1, 2026	Unit 1 Folder
Trainer Labs 1-3	Monday, February 2, 2026	In Class
Trainer Labs 1-3	Wednesday, February 4, 2026	In Class
Chapter 3 Review	Sunday, February 8, 2026	Unit 1 Folder
Chapter 4 Review	Sunday, February 8, 2026	Unit 1 Folder
Trainer Labs 4-6	Monday, February 9, 2026	In Class
Trainer Labs 4-6	Wednesday, February 11, 2026	In Class
Chapter 1-4 Lab Packet	Wednesday, February 11, 2026	In Class

Quiz 1	Friday, February 13, 2026	Unit 1 Folder
Exam 1	Sunday, February 15, 2026	Unit 1 Folder
Bench Lab 2- CR Lab	Monday, February 16, 2026	In Class
Chapter 5 Review	Sunday, February 22, 2026	Unit 2 Folder
Bench Lab 3- Run/Jog CR	Monday, February 23, 2026	In Class
Bench Lab 4- Man/Auto CR	Wednesday, February 25, 2026	In Class
Chapter 5-7 Lab Packet	Wednesday, February 25, 2026	In Class
Chapter 6 Review	Sunday, March 1, 2026	Unit 2 Folder
Chapter 7 Review	Sunday, March 1, 2026	Unit 2 Folder
Group A: Lab Exam 1	Monday, March 2, 2026	In Class
Group B: Lab Exam 1	Wednesday, March 4, 2026	In Class
Quiz 2	Friday, March 6, 2026	Unit 2 Folder
Exam 2	Sunday, March 8, 2026	Unit 2 Folder
Trainer Labs 7-8	Monday, March 16, 2026	In Class
Trainer Labs 7-8	Wednesday, March 18, 2026	In Class
Chapter 8 Review	Sunday, March 22, 2026	Unit 3 Folder
Trainer Labs 10-11	Monday, March 23, 2026	In Class
Trainer Labs 10-11	Wednesday, March 25, 2026	In Class
Chapter 12 Review	Sunday, March 29, 2026	Unit 3 Folder
Group B Lab Exam 2	Monday, March 30, 2026	In Class
Group A Lab Exam 2	Wednesday, April 1, 2026	In Class
Quiz 3	Friday, April 3, 2026	Unit 3 Folder

Exam 3	Sunday, April 5, 2026	Unit 3 Folder
Group A: Bench Lab 5 - Run/Jog Motor Starter	Monday, April 6, 2026	In Class
Group B: Trainer Lab 19	Monday, April 6, 2026	In Class
Group B: Bench Lab 5 - Run/Jog Motor Starter	Wednesday, April 8, 2026	In Class
Group A: Trainer Lab 19	Wednesday, April 8, 2026	In Class
Chapter 9 Review	Sunday, April 12, 2026	Unit 4 Folder
Chapter 10 Review	Sunday, April 12, 2026	Unit 4 Folder
Group A: Bench Lab 6- Man/Auto Motor Starter	Monday, April 13, 2026	In Class
Group B: Trainer Lab 13	Monday, April 13, 2026	In Class
Group B: Bench Lab 6- Man/Auto Motor Starter	Wednesday, April 15, 2026	In Class
Group A: Trainer Lab 13	Wednesday, April 15, 2026	In Class
Chapter 13 Review	Sunday, April 19, 2026	Unit 4 Folder
Chapter 14 Review	Sunday, April 19, 2026	Unit 4 Folder
Group B: Lab Exam 3	Monday, April 20, 2026	In Class
Group A: Lab Exam 3	Wednesday, April 22, 2026	In Class
Quiz 4	Friday, April 24, 2026	Unit 4 Folder
Exam 4	Sunday, April 26, 2026	Unit 4 Folder
Open Lab	Monday, April 27, 2026	In Class
Trainer Lab 12	Monday, May 4, 2026	In Class
Lab Final	Wednesday, May 6, 2026	In Class
Final Exam	Friday, May 8, 2026	Final Exam Folder

ADDITIONAL COURSE POLICIES/INFORMATION

1. ALL work should be completed in PENCIL! Work submitted in pen will receive a ZERO.
2. No food, drinks, or use of tobacco products in class.
3. No foul or harsh language will be tolerated
4. Turn off all Cell Phones during lectures, unless otherwise instructed by me
5. Clean up work station after you complete your lab assignments. Materials left at work station will result in 10 points deducted from that lab assignment.
6. Take care of tools and equipment used during class.
7. Headphones may be worn only upon Instructor approval.
8. Do not bring children to class.
9. No Cheating of any kind will be tolerated. Students caught cheating or helping someone to cheat can and will be removed from the class for the semester. Cheating can result from expulsion from LIT.
10. Students must have access to, and knowledge of basic computer functions (including Blackboard)
11. Students should check Blackboard daily.
12. Internet Usage
 1. Classroom computers have access to the internet.
 2. Student usage of the internet will be monitored.
 3. Proper usage of the internet will be allowed for classroom research, classwork, tests, and assignments as directed.
 4. Any unauthorized usage of the Internet will not be tolerated.
 5. Improper usage of the Internet, such as profanity, nudity, gambling, etc. will result in disciplinary action.
13. **There will be NO make-up Exams.** If you miss an Exam for any reason, you automatically forfeit your possible exemption from the Final.
14. **There will be NO make-up Labs.**
15. There will be a 20 point penalty **for each day** deducted from late work (**daily assignments only**).