

CE 4354 Mechanical and Electrical Construction



Course Instructor

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Course Information

Course Title: Mechanical and Electrical Construction

Course Credits: 3-0

Prerequisites or Co-requisites: None

Course Description

This course will familiarize students with construction procedures involved with mechanical and electrical contracting, including heating and cooling systems, plumbing, testing of mechanical systems, and the basics of electrical system design and construction.

Course Goals

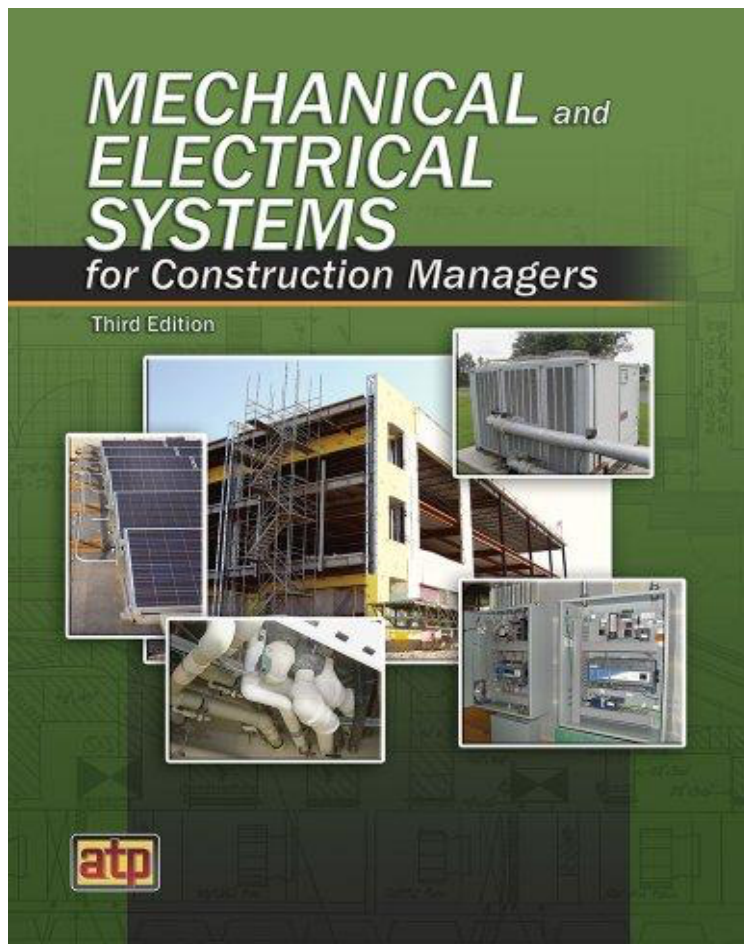
To familiarize students with a basic knowledge of how mechanical and electrical systems are constructed.

Objectives

To give students a basic understanding of various technical skills used in managing different types of mechanical and electrical construction.

Required Materials

Mechanical and Electrical Systems for Construction Managers published by ATP. ISBN 978-0-8269-9363-2



Grading Policy

Students will be responsible for weekly quizzes, class discussion questions, class discussion/participation, and assignments. Grades will be determined based on the following criteria.

Grade	Required Percentage of Available Points
A (Outstanding)	90 – 100
B (Very Good)	80 – 90
C (Satisfactory)	70 – 80
D (Unsatisfactory)	60 – 70
F (Failure)	less than 60

Available Points

Module	Quiz	Discussions	Assignments
1	100	90	100
2	100	90	100
3	100	90	100
4	100	90	100
5	100	90	100
6	100	90	100
7	100	90	400

Participation

Each week students are required to do all of the **Required Readings** and take a **Quiz**. In addition, each week the students will be required to discuss the professor-issued **Discussion Questions** and complete a given **Assignment**.

Students **must respond to each Discussion Question posted by the Professor by 10 pm on Thursday night each week**. Each student must also **post a minimum of three responses** to posts made by other students in the class **by Sunday night at 10 pm each week**. This means each student will respond to each Professor Discussion Question plus post a total of three posts responding to other student posts during each week. Proper English and grammar are required in all discussions. In order to count towards participation credit, each post must be substantive. Substantive means they must respond to each point or question posted by the Professor or students, provide additional thought and analysis on the question or point made in the post, and raise a question or comment about the material posted that will contribute towards additional class discussion and inquiry. Slang, texting styles, or street language is unacceptable and will not be graded.

Assignments are due Sunday nights at midnight each week. The assignments are to be submitted using the assignment tool on Blackboard system. In case of numeric assignments, a

detailed breakdown of different steps and point distribution for different solution components will be provided. If the assignment is of discussion/critique type, following grading scheme will be used for assessment.

Grade Expectation

100% Clear understanding, substantially adequate analysis, no significant grammatical or organization problems with the written text.

90% Clear understanding, adequate analysis, noticeable grammatical or organization problems with the written text.

80% Understanding, adequate analysis, substantial issues with the document organization and grammar.

70% Understanding, inadequate/incorrect analysis about the deliverables substantial issues with the document organization and grammar

Technology Requirements

First, let's make sure your computer has the necessary [plug-ins](#) you will need to access all the content in this course. You can [click here](#) to access UTEP's test page that will inform you if the computer you are using has the latest software available.

Software Requirements

You will need the following software on your computer to efficiently work in this course. In some cases your computer may already have some of these programs installed.

Adobe Acrobat Reader. You can get the program by going to <http://www.adobe.com> and then clicking on the icon on the center of the screen which says "Get Adobe Reader". Follow instructions to install the reader.

Adobe Flash Player. You can get the player by going to <http://www.adobe.com> and then clicking on "Get Adobe Flash Player". Follow instructions to install the player.

Apple QuickTime Player. You can get this player by going to <http://www.apple.com>. Once there, click on the "Downloads" tab on the top of the page and then click on QuickTime "Download" and follow instructions.

Microsoft Office. I recommend buying this if you do not have any word processing software or presentation software. As students, you can generally buy this whole package for about \$25, far less than the store price of approximately \$400.

Microsoft Silverlight. You can download/update this add-on by going to <http://www.microsoft.com/silverlight/>. This will allow you to view embedded PowerPoint Presentations and PDF files throughout each lesson.

Effective Electronic Communication

It is important to share a word of caution, so we can become wiser about interpersonal distance learning communications. When communicating electronically, many of the feelings or impressions that are transmitted via body language in face-to-face communications are lost. Consequently, interpreting emotions and innuendos is much more difficult. Only what is written, or drawn, carries the message. Often, excitement can be misinterpreted as anger or insult. It is important that we all keep this in mind as we communicate. Words in print may seem harmless, but they could emotionally injure us when working at a distance. Hence, it is vitally important that we are conscious of how we communicate while working at a distance.

- For example, avoid the use of caps in your electronic messages, as wording in caps comes across as shouting.

The standard practice ("Netiquette") for participation in networked discussion requires that all participation be focused on the topic at hand, not become personalized, and be substantive in nature. (Translation: you may certainly disagree with others, but you must do so respectfully; you may express strong beliefs or emotions, but you may not get so carried away that you lose all perspective on the course itself.)

- More information on Netiquette, the etiquette of Internet communication, can be found at www.albion.com/netiquette.

Academic Dishonesty Statement

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another person's as one's own. And, collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. Violations will be taken seriously and will be referred to the Dean of Students Office for possible disciplinary action. Students may be suspended or expelled from UTEP for such actions.

Academic dishonesty is an assault upon the basic integrity and meaning of a University. Cheating, plagiarism, and collusion in dishonest activities are serious acts which erode the University's educational and research roles and cheapen the learning experience not only for the perpetrators, but also for the entire community. It is expected that UTEP students will

understand and subscribe to the ideal of academic integrity and that they will be willing to bear individual responsibility for their work. Materials (written or otherwise) submitted to fulfill academic requirements must represent a student's own efforts. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. Violations will be referred to the Dean of Students Office for possible disciplinary action. Students may be suspended or expelled from UTEP for such actions.

Notice of Safe Assign

This course may utilize third party software that has the ability to automatically detect plagiarism on documents submitted for grading.

Copyright Notice

Many of the materials that are posted within this course are protected by copyright law. These materials are only for the use of students enrolled in this course and only for the purpose of this course. They may not be further retained or disseminated.

Disabled Student Statement

In Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990, if a student needs an accommodation then the Center for Accommodations and Support Services located at UTEP needs to be contacted. If you have a condition, which may affect your ability to perform successfully in this course, you are encouraged to discuss this in confidence with the instructor and/or the director of the Center for Accommodations and Support Services. You may call (915) 747-5148 for general information about the American with Disabilities Act (ADA) and the rights that you have as a UTEP student with a disability. You also can visit the CASS website at <https://www.utep.edu/student-affairs/cass/> or the CASS office in Room 106 East Union Building.

Individuals with disabilities have the right to equal access and opportunity. It is the student's responsibility to contact the instructor and Center for Accommodations and Support Services Office at The University of Texas at El Paso.

Technical Assistance

The University of Texas at El Paso offers complete technical information and help desk support at: <https://www.utep.edu/technologysupport/>