



Master Course Syllabus

For additional course information, including prerequisites, corequisites, and course fees, please refer to the Catalog: <https://catalog.uvu.edu/>

Semester: Spring

Year: 2025

Course Prefix: AET

Course and Section #: 1250-001

Course Title: Industrial Electrical Code

Credits: 2

Course Description

Covers pertinent topics within the National Electrical Code related to commercial and industrial environments. Covers code related to electrical plans, specifications, wiring and installation methods, feeder load calculations, motor installation, motor controllers, panelboards, hazardous locations, protective devices, and grounding for commercial and industrial applications.

Course Attributes

This course has the following attributes:

- General Education Requirements
- Global/Intercultural Graduation Requirements
- Writing Enriched Graduation Requirements
- Discipline Core Requirements in Program
- Elective Core Requirements in Program
- Open Elective

Other: *Click here to enter text.*

Instructor Information

Instructor Name: Tyler Bird

Student Learning Outcomes

- Interpret electrical plans and symbols
 - Analyze engineering electrical specifications
 - Calculate appropriate sizing of electrical equipment
 - Identify proper grounding techniques
 - Identify NEC commercial code requirements
 - Identify NEC industrial code requirements
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Course Materials and Texts

- Modern Commercial Wiring (9th Edition), Based on 2023 NEC, Holzman, Harvey, ISBN: 978-1685845933

- Access to a computer and reliable internet connection - Create an account for the National Electric Code and obtain free access NFPA 70
 - <https://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=70>Links to an external site.

Optional materials, fees and technology

- Ugly's Electrical Reference 2023, Miller, Charles, Jones and Bartlett publishers, 978-1-284-27591-9

Course Requirements

Course Assignments, Assessments, and Grading Policy

Grading Scale:

The following grading standards will be used in this class:

Grading Table

Grade	Percent
A	90-100
B	80-89
C	70-79
D	60-69
E	0-59

Assignment Categories

Percentage Table

Activity	Percentage
Chapter Tests	25
Homework	25
Assignments	25
Final Exam	25

Late Work Statement:

The best way to be successful in this course is to submit all assignments by their due date. Late work is not accepted and a zero will be given. In the event that you will not be able to meet a due date, contact your instructor as soon as possible. Contacting the instructor after the due date asking for an extension is not acceptable a majority of the time.

Course Mode / Attendance: ONLINE

Online learning offers the convenience of continuing your education regardless of your access to the physical classroom. Be aware that online courses at UVU have regular due dates and must be completed within the term you are registered. You are expected to complete each newly published module (typically each week a new one will be published).

Description of how course works:

For this **Two (2) credit-hour** course students should expect to spend **6 to 8 hours a week** on this course.

Canvas is where content, grades, and communications will reside for this course. All assignments will be submitted electronically through Canvas. A new week begins on Monday and weekly due dates are provided in canvas. It is rare to offer extra credit opportunities in this course so please take each assignment seriously.

As a student you can expect this course to challenge and engage you as a learner. You will be expected to read and interpret technical figures and diagrams, watch videos, and apply the information gained in assignments, homework and exams. Furthermore, you will be required to follow the course schedule and get assignments completed on time.

Inclusion Statement

My intent for this class is to create a space where students feel included, heard, and respected, and that students' diverse identities and backgrounds are valued and viewed as an asset to our shared learning community. We all come to this course with unique life experiences, and there will be diversity of

perspectives in our discussions. This diversity is our strength as we strive to communicate and connect across difference and build an inclusive and equitable learning environment.

Student Responsibilities:

- Know the rules of the class as outlined in this syllabus and the course orientation materials THEN ask questions
- Start class the first week of the term AND participate each week
- Complete all readings and assignments by the due date
- Check course announcements with each login
- Learn how to use Canvas including communication tools (e.g. discussion, Canvas inbox, etc.). If you have technology-related problems, contact the [Service DeskLinks to an external site.](#)
- Abide by ethical standards. Your work must be your own.
- Contact your instructor as early as possible if an emergency arises. Do NOT wait until the last minute to ask for an extension.

Instructor Responsibilities:

- Respond to emails within Two business days maximum. If multiple emails are received regarding the same question or concern, they may be responded to with an announcement to the entire class.
- Provide timely, meaningful and constructive feedback on assignments.
- Facilitate an effective learning experience.
- Refer students to appropriate services for issues that are non-course content specific. For instance, technical issue, writing labs, accessibility services, etc.
- Mentor students through the course.

Required or Recommended Reading Assignments

There will be weekly reading that correspond to the week's module. Details will be given via canvas

General Description of the Subject Matter of Each Lecture or Discussion

This course provides an in-depth study of electrical systems, focusing on interpreting plans and symbols, analyzing engineering specifications, and ensuring compliance with NEC commercial and industrial code requirements. Students will develop skills in calculating appropriate equipment sizing, identifying proper grounding techniques, and applying industry standards to real-world electrical installations.

Required Course Syllabus Statements

Generative AI

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Using Remote Testing Software

This course does not use remote testing software.

This course uses remote testing software. Remote test-takers may choose their remote testing locations. Please note, however, that the testing software used for this may conduct a brief scan of remote test-takers' immediate surroundings, may require use of a webcam while taking an exam, may require the microphone be on while taking an exam, or may require other practices to confirm academic honesty. Test-takers therefore shall have no expectation of privacy in their test-taking location during, or immediately preceding, remote testing. If a student strongly objects to using test-taking software, the

student should contact the instructor at the beginning of the semester to determine whether alternative testing arrangements are feasible. Alternatives are not guaranteed.

Required University Syllabus Statements

Accommodations/Students with Disabilities

Students needing accommodations due to a permanent or temporary disability, pregnancy or pregnancy-related conditions may contact UVU [Accessibility Services](#) at accessibilityservices@uvu.edu or 801-863-8747.

Accessibility Services is located on the Orem Campus in BA 110.

Deaf/Hard of Hearing students requesting ASL interpreters or transcribers can contact Accessibility Services to set up accommodations. Deaf/Hard of Hearing services can be contacted at DHHservices@uvu.edu

DHH is located on the Orem Campus in BA 112.

Academic Integrity

At Utah Valley University, faculty and students operate in an atmosphere of mutual trust. Maintaining an atmosphere of academic integrity allows for free exchange of ideas and enables all members of the community to achieve their highest potential. Our goal is to foster an intellectual atmosphere that produces scholars of integrity and imaginative thought. In all academic work, the ideas and contributions of others must be appropriately acknowledged and UVU students are expected to produce their own original academic work.

Faculty and students share the responsibility of ensuring the honesty and fairness of the intellectual environment at UVU. Students have a responsibility to promote academic integrity at the university by not participating in or facilitating others' participation in any act of academic dishonesty. As members of the academic community, students must become familiar with their [rights and responsibilities](#). In each course, they are responsible for knowing the requirements and restrictions regarding research and writing, assessments, collaborative work, the use of study aids, the appropriateness of assistance, and other issues. Likewise, instructors are responsible to clearly state expectations and model best practices.

Further information on what constitutes academic dishonesty is detailed in [UVU Policy 541: Student Code of Conduct](#).

Equity and Title IX

Utah Valley University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age (40 and over), disability, veteran status, pregnancy, childbirth, or pregnancy-related conditions, citizenship, genetic information, or other basis protected by applicable law, including Title IX and 34 C.F.R. Part 106, in employment, treatment, admission, access to educational programs and activities, or other University benefits or services. Inquiries about nondiscrimination at UVU may be directed to the U.S. Department of Education's Office for Civil Rights or UVU's Title IX Coordinator at 801-863-7999 – TitleIX@uvu.edu – 800 W University Pkwy, Orem, 84058, Suite BA 203.

Religious Accommodation

UVU values and acknowledges the array of worldviews, faiths, and religions represented in our student body, and as such provides supportive accommodations for students. Religious belief or conscience broadly includes religious, non-religious, theistic, or non-theistic moral or ethical beliefs as well as participation in religious holidays, observances, or activities. Accommodations may include scheduling or due-date modifications or make-up assignments for missed class work.

To seek a religious accommodation, a student must provide written notice to the instructor and the Director of Accessibility Services at accessibilityservices@uvu.edu. If the accommodation relates to a scheduling conflict, the notice should include the date, time, and brief description of the difficulty posed by the conflict. Such requests should be made as soon as the student is aware of the prospective scheduling conflict.

While religious expression is welcome throughout campus, UVU also has a [specially dedicated space](#) for meditation, prayer, reflection, or other forms of religious expression.