

Oklahoma State University Institute of Technology
Face-to-Face Common Syllabus
Spring 2018

ECNT 1313 NATIONAL ELECTRICAL CODES

An in-depth study of the latest National Electrical Code is taught, with emphasis on the total code and the licenses that can be obtained in this state and others.

Course Purpose:

The purpose of the course is to familiarize the student with:

1. How to use the parts and layout National Electrical Code book.
2. How to read and interpret the commonly used tables and charts in the NEC.
3. How to select and perform required mathematical calculations common to the electrical construction industry.

Type of course: Theory

Credit Hours: 3; Total hours of theory per semester: 45;

Class length - Full Semester

Class days and times: MW 1:00 – 2:25

Prerequisites: ECNT 1253

Instructor Name: Val Peterson

Instructor Phone: (918) 293-4743

Office: Bldg. 600, Rm. 117

Instructor email: val.peterson@okstate.edu

Contact: My preferred method of contact is email. Please allow 24-48 hours to return your correspondence during the normal work week.

Instructor's Office Hours: 1st half of semester MTWR 7:30 to 9:15 am and 2:30 to 3:00 pm;
2nd half of the semester MTWR 2:30-3:00 pm

School Name: Construction Technologies

School's Main Phone: 918-293-4742

REQUIRED TEXT, REFERENCES, AND MATERIALS

Texts: National Electric Code 2017; NEC; ISBN# 978-145591277-3,
Understanding the NEC Vol. 1, Mike Holt; ATP; ISBN# 978-0-9863534-5-1, Understanding the NEC Vol. 2, Mike Holt; ATP; ISBN# 978-0-9903953-6-2

References: None

Materials: Notebook, Pen, Pencil, Calculator, and Highlighters (various colors)

Uniform/Tools: None

Estimated Cost for Materials: \$ 150.00

Estimated Cost for Uniform/Tools: \$ None

Optional Resources: NEC Index Tabs, 2017 Edition #NECTAB2017

Upon completion of the course, students should:

Course Objectives	Assessment of Objectives
*1313-1. (NEC) Know the parts or layout of the NEC book.	Written Exams
*1313-2. (NEC) Systematically look up answers to code questions.	Written Exams
*1313-3. (NEC) Read and interpret the commonly used tables and charts in the NEC.	Written Exams
*1313-4. (NEC) Select and Perform required mathematical calculations common to the electrical construction industry.	Written Exams
*1313-5. (NEC) Describe the national scope of the NEC	Written Exam

Aspects of the course objective assessments may be used in the university's assessment of student learning. If applicable, an asterisk (*) above indicates this assignment is used in the university assessment program.

COURSE ACTIVITIES

In this course students will:

- How to use the parts and layout National Electrical Code book.
- How to read and interpret the commonly used tables and charts in the NEC.
- How to select and perform required mathematical calculations common to the electrical construction industry.

EVALUATION - GRADES WILL BE BASED ON THE QUALITY AND COMPLETION OF THESE TASKS:

Participation	20%
Quiz	40%
Final Exam	40%
Total	<u>100%</u>

OSUIT Grading Scale
A = 90%-100%
B = 80%-89%
C = 70%-79%
D = 60%-69%
F = 59% & below

*The student's grade for this assignment will be used in the university's assessment of student learning. A 70% competency or higher receives a Pass rating. This Pass/Fail rating is independent of the student's course grade.

Daily and/or weekly quizzes, small weekly assignments and similar type projects: Normal return time to student by next class meeting or no later than one (1) week.

Extensive assignments, large lab projects, extensive quizzes, exams and similar type projects: Normal return time to students in one (1) to two (2) weeks.

RECOMMENDED STUDENT COMPETENCIES/SKILLS

None

AUTHORIZED TOOLS

None

LATE WORK

No late work will be accepted, unless arrangements have been made prior to the due date.

TESTING

Refer to “Academic Dishonesty” section of Syllabus Attachment

OTHER LAB AND CLASSROOM POLICIES

Students are expected to abide all safety rules during lab projects. No cell phones or laptops are allowed in classroom or lab except for specific times set by instructor.

SYLLABUS ATTACHMENT

View the Syllabus Attachment, which contains other important information, by visiting http://osuit.edu/center/student_syllabus_information

ECNT 1313 National Electrical Codes Course Schedule			
Course Outline Schedule	Topic	Assignment	Due Date
Day1 1/8/2019	Course Introduction, Syllabus/Schedule, NEC Art. 90 & Chp. 1 General	Art. 90 Review Questions, Chapter 1 Practice Questions	Next Class
Day1/Week 2	Chp. 2, NEC Article 200 - 285	Chapter 2 Practice Questions	Next Class
Day2/Week 2	Answer Practice Questions Review for Test	Review Articles 90 – 285 for Test	Next Class
Day2/Week 3	Test 1	Chapter 3, NEC Articles 300 - 399	Next Class
Day2/Week 3	Chapter 3, NEC Articles	Chapter 3 Practice Questions	Next Class
Day1/Week 4	Answer Practice Questions Review for Test	Review Articles 300 – 399 for Test	Next Class
Day2/Week 4	Test 2	Chapter 4, NEC Articles 400– 490	Next Class
Day1/Week 5	Chapter 4, NEC Articles 400 - 490	Chapter 4 Practice Questions	Next Class
Day2/Week 5	Answer Practice Questions Review for Test	Review Articles 400 – 490 for Test	Next Class
Day1/Week 6	Test 3	Chapter 5, NEC Articles 500 - 591	Next Class
Day2/Week 6	Chapter 5, NEC Articles 500 - 591	Chapter 5 Practice Questions	Next Class

Day1/Week 7	Answer Practice Questions Review for Test	Review Articles 500 – 590 for Test	Next Class
Day2/Week 7	Test 4	Chapter 6, NEC Articles 600 - 695	Next Class
Day1/Week 8	Chapter 6, NEC Articles 600 – 695	Chapter 6 Practice Questions	Next Class
Day2/Week 8	Answer Practice Questions Review for Test	Review Articles 600 – 695 for Test	Next Class
Day1/Week 9	Test 5	Chapter 7, NEC Articles 700 - 770	Next Class
Day2/Week 9	Answer Practice Questions Review for Test	Review Articles 700 – 770 for Test	Next Class
Day1/Week 10	Test 6	Chapter 8, NEC Articles 800-840	Next Class
Day2/Week 10	Answer Practice Questions Review for Test	Review Articles 800 – 840 for Test	Next Class
Day1/Week 11	Test 7	Answer Final Exam Questions, Understanding NEC Vol. 2	Next Class
Day2/Week 11	Answer Final Exam A Questions	Answer Final Exam Questions, Understanding NEC Vol. 2	Next Class
Day1/Week 12	Answer Final Exam A Questions	Answer Final Exam Questions, Understanding NEC Vol. 2	Next Class
Day2/Week 12	Answer Final Exam B Questions	Answer Final Exam Questions, Understanding NEC Vol. 2	Next Class
Day1/Week 13	Answer Final Exam B Questions	Answer Final Exam Questions, Understanding NEC Vol. 2	Next Class
Day2/Week 13	Review for Final Exam	Review for final Exam	Next Class
Day1/Week 14	Final exam Part 1	Review for final Exam	Next Class
Day2/Week 14	Final Exam Part 2	Review for final Exam	Next Class
Day1/Week 15	Final Exam Part 3	Review for final Exam	Next Class
Day 2/Week 15	Final Exam Part 4		

Quiz could be given any time & will be on subjects/labs that have been covered.

Your participation grade is based on your participation in discussions both in class & labs.

This grade is judged every time we have class or a lab.

This schedule may vary depending on: unforeseeable circumstances that may arise; individual class rate of comprehension and evaluation; and at the discretion of the instructor.