

**Nashville State Community College
School of STEM
Industrial Process Control Technology**

**2022 Master Course Syllabus
IPCT-2330 Electrical III**

This syllabus sets forth the expectations for course content, work, and grading as well as expectations for student performance and conduct. The syllabus does not constitute a contract between the student and the instructor or the College. The information contained here is subject to change at any time. Students will be notified if any changes are made. Though changes are possible, it is expected that the course will be conducted as described in this syllabus.

Course Information:

Course Title: IPCT-2330 Electrical III

Credits: 3 credits

Class Hours: 2 class hours, 2 lab hours

Course Description:

Topics include calculating conductance, applications of lighting, distribution equipment, transformers, commercial electrical services, motor calculations and controls, and voice, data and video applications.
Prerequisite(s): IPCT 1335

Instructor Information:

Name:

Email:

Office Phone:

Office Location:

Office Hours:

Virtual Office:

Required Textbook(s) & Other Materials:

Textbook(s): Electrical Level 3 Trainee Guide, 8th Edition

ISBN: 13: 9780133830828

AND

NEC

ISBN-13: 978-1455912773

ISBN-10: 1455912778

Reference Materials: None

Supplies: Pencils, Pens, Highlighters, Notepaper

Once enrolled, all students should verify that they have the correct textbook and materials information by consulting the D2L/NS Online shell for the course. If you are registered with the Access Center and require an alternate format for the textbook and other course materials, please contact the Access Center at 615-353-3721, 615-353-3741, or accesscenter@nsc.edu.

Course Outcomes:

Upon successful completion of this course, students should be able to:

- Assess, identify and apply proper NEC requirements concerning conductor calculations
- Identify and evaluate commercial electrical services, motor calculation, and code requirements
- Identify applications for commercial wiring
- Assess and demonstrate trouble shooting techniques involving electrical circuits
- Demonstrate the ability to install an electromagnetic motor starter

Course Competencies:

The following are detailed course competencies intended to support the course outcomes: Demonstrated through NCCER Performance Evaluations (PVs) following successful completion of testing at a grade of 60 or above. (See course Assessment)

The following are general education competencies intended to support the course outcomes:

Topics to Be Covered:

- Electrical Load Calculations
- Electrical Conductor Sizing
- Practical Lighting Applications
- Electrical Equipment requirements for Hazardous Locations
- Overcurrent Protection
- Electrical Distribution Equipment
- Electrical Transformers
- Commercial Electrical Services
- Electrical Motor Calculations and Controls
- Voice Data and Video Conductor Selection

Course Assessments:

The following performance assessments will be used to demonstrate students' understanding, knowledge, and skills: Students will be assessed with both traditional written tests and through hands-on performance evaluations based on the topics covered in the class.

This is an NCCER class. Tests will be graded as follows:

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1. All module exams must be passed with a 70% or higher to become “knowledge verified” through NCCER.
2. Any exams not passed at this level can and should be retaken in the testing center at a cost of \$3.00.
3. Although the student may make above a 70 on the re-take and become knowledge verified with NCCER, the grade of record for the NSCC grade will be the grade made on the first attempt.
4. A score of 70 or above (initially or re-take) is required in order to allow the Performance Verification score.
5. Students with an unexcused absence on the day of a module exam will receive a zero (0) on the module exam for NSCC class scoring; however, the student will be able to take the exam for NCCER “knowledge verification” purposes.

Class notes, handouts, practice exercises and your textbook are excellent resources to prep for module exams. Written assignments will periodically be assigned for you do outside of class. Along with the required reading, the homework will guide you and require summarizing key points, conducting research or answering questions.

Note 1: A student scores a 56 on his first module exam attempt. He/She re-takes the exam and scores a 72. The 72 now applies to the NCCER as being knowledge verified; however, the original score of 56 is the grade that applies for the NSCC class.

Late Work Policy & Make-up Procedures for Missed Assignments and Work:

Late work and ability to re-test is covered in the Attendance Policy section. Missed Assignments are covered in Course Assessments section

Attendance Policy

The College is not an attendance taking institution as defined by 34 CFR 668.22(b)(1) in the Code of Federal Regulations; however, students are expected to attend all scheduled classes and laboratories.

- Absences in a course may affect a student’s final grade.
- Tardiness may also affect a student’s final grade.
- Students are responsible for all work/tests that occur during any missed class session(s) regardless of reason(s) for absence.
- Students who are sick or not well enough to attend class must notify the instructor as soon as possible before the scheduled class time, unless incapacitated or unable to do so. In that case, students must contact the instructor as soon as reasonably possible.
- If a student has an unavoidable conflict with a scheduled class session, students must notify the instructor, preferably before the class session, or as soon as possible.

For purposes of financial aid continued attendance is determined via engagement in the course. This can be accomplished in several ways including, but not limited to, continued attendance and/or

participation in on-ground class sessions, participating in D2L as prompted (e.g., responding to an instructor’s email, posting to a discussion board), and/or completing and submitting assignments.)

To the extent that attendance is kept in this class it is not for the purpose of the College but is instead associated with the instructor’s individual grading rubric. The attendance policy for this class is: The student is expected to attend all scheduled classes and laboratories. Attendance will be 10% of the student’s overall grade. Any absence, whether excused or unexcused, will result in an overall grade reduction of 0.5% up to 5 absences. Six or more absences will result in a grade of 0 for attendance. Absences are counted from the first scheduled meeting of the class. If a student is absent from a class, he/she should give an advanced explanation to the instructor. The student is responsible for all assigned work in the course regardless of excused or unexcused absences.

Excused Absence: The student will be given the opportunity to make-up any missed assignment. Excused absences include sickness with a doctor’s note, a death in the immediate family or as approved by the instructor.

Unexcused Absence: The student will be given a grade of “0” for any missed assignment. Unexcused Absences include all absences not approved by the instructor.

Grading Scale:

Grades for the Electrical 3 Course are determined as follows:

<u>Assignment</u>	<u>Scoring</u>	<u>Count</u>	<u>Tot. Pts.</u>
Tests	100	11	1100
Reviews	10	11	110
PV's	30	3	90
Attendance	10%	1	144
Total			1444

Letter Grade	Percentage Range
A	90.0 - 100
B	80.0 – 89.9
C	70.0 – 79.9
D	60.0 – 69.9
F	Below 59.9

FA

According to NSCC policy, an FA is awarded to students who do not officially withdraw from a course and do not attend after the cut-off date provided in the academic calendar. Please refer to the current

academic calendar available on the Nashville State web site, looking for the date that indicates it is the “Last Day to Earn F for Attendance (FA).” Students who stop attending on or before Friday October 28th receive an FA; students who stop attending after this date receive an F.

For online courses, attendance is defined by submission of assignments. Students who fail a course and whose last assignment is submitted on or before the FA date will earn an FA for the course. Students who fail a course and whose last assignment is submitted after the FA date will earn an F for the course. An FN is assigned to students who do not submit any assignments.

FN

An FN is awarded to students who never attended class.

Technology Statement

- All classes at the College are web enhanced.
- It will be essential for students to have access to a computer and an internet connection to complete assignments, engage in online discussions, and access various course materials through D2L/NS Online course shells.
- Students may also be required to use free video conferencing platforms (ex: Zoom, Teams) for classes and meetings.
- Students will be responsible for appropriate dress while on video, to ensure a distraction free environment (mute sound as needed) and to ensure their background is neutral for others to view.
- If you have questions or concerns regarding access to a computer or internet resources, please contact your instructor. Additional information available: <https://www.nsc.edu/current-students/student-online-resources/access-to-internet-and-technology>.
- Certain publisher materials may not work on cellphones.

Computer Labs

Computers are available for student use at each campus during campus open hours. Open computer lab availability for Fall 2020 may vary from campus to campus.

Students should check NSCC website for current hours of operation.

D2L/NS Online and myNSCC

It is students’ responsibility to check D2L/NS Online course shells for all enrolled courses and myNSCC, including student email, on a regular basis. These are the official communication channels between the college and students, who are responsible for the information communicated through those channels. D2L/NS Online contains specific course information and myNSCC contains information important for other purposes.

ADA Compliance Statement

Nashville State complies with the Americans with Disabilities Act (ADA). If you require accommodations for any courses in which you are enrolled, contact the Access Center at 615.353.3741 or 615.353.3721,

or e-mail accesscenter@nsc.edu. If you are registered with the Access Center and require an alternate format for the textbook and other course materials, please contact the Access Center.

Classroom Misconduct

Nashville State Community College has a zero-tolerance policy for disruptive conduct in the classroom. Students whose behavior disrupts the classroom will be subject to disciplinary measures. Please review the [Nashville State Student Code of Conduct policy](#). Please be aware that children are not allowed in class or to be left unattended on campus.

Academic Misconduct

Any form of academic dishonesty, cheating, plagiarizing, or other academic misconduct is prohibited. Students are responsible for understanding and abiding by the [Academic Misconduct Policy](#) in the Nashville State Student Code of Conduct. In addition to other possible disciplinary measures that may be applied through regular college procedures as a result of academic dishonesty, the instructor has the authority to assign an "F" or a "zero" for the exercise, paper, or examination, or to assign an "F" for the course. Students may appeal through the appropriate college grade appeal procedures.

Academic Early Alert System

Nashville State Community College uses an Early Alert System to let students know of a faculty member's concern in one or more of these academic areas: lack of attendance, lack of classroom participation, late or missing assignments, and/or poor performance on assignments/tests. *Please note that Early Alerts do not affect a student's academic standing. If you receive an Early Alert email, please see your instructor and your academic advisor as soon as possible.

RAVE Emergency Alert System

Emergency events can happen at any time, and Nashville State Community College wants to notify students if and when they occur. For this reason, all students have been enrolled in the free RAVE alert system. If you have not already done so, please log in at <https://www.getrave.com/login/nsc> to confirm and update your contact information and notification preferences. It is critical that your information be correct so that you will receive any emergency notifications. Your RAVE Username is your NSCC email address. If you've never received an email from RAVE with your password, or if you need to reset your password, select "Forgot your password?" and a new password will be emailed to you. Should the RAVE system indicate "user not found", select Register and create your own RAVE account.

Student Wellness

- The general well-being of students is an important component of their academic success. With this in mind, Nashville State Community College has several resources available to provide support when needed:
 - Students with general, non-academic questions and concerns about COVID-19 may email virusinfo@nsc.edu.
 - Five free telephone therapy sessions are available via Agape Counseling by calling 615-781-3000.
 - Online tutoring is available via NetTutor within the D2L course shells.

- A comprehensive list of online student resources may be found at <https://www.nsc.edu/current-students/student-online-resources>
- A comprehensive list of student support services may be found at <https://www.nsc.edu/current-students/on-campus-resources/student-support-services>

Equity Statement

Nashville State Community College has a relentless commitment to the transformation of our institution through the intentional design of college experiences that expect and promote excellence from students, faculty, staff and administration. We consider equity to be an obligation of higher education. We strive to ensure that each student receives what that student needs to be successful, with goals of success beyond the classroom. We do this through an evidence-based and collaborative effort, understanding that our student population has diverse needs that must be addressed. We recognize that this effort may not always be comfortable and that partnering with students is the driving force to overcome barriers to success.

Inclement Weather & Campus Closings

Nashville State will use the RAVE alert system to send a text message to students, staff, and faculty about adjusted hours of operation and/or closings at individual campuses. All students should check the Nashville State web site home page at www.nsc.edu for announcements on campus closures, which may vary from campus to campus. Campus closures will also be announced on local television stations. Students should use their own best judgment in determining whether to report to campus during inclement weather when classes are not cancelled.

Even when campuses are closed, students are still responsible for completing all assigned work. When classes are cancelled, faculty will post online assignments and any additional instructions in the D2L/NS Online course shell. Check D2L/NS Online for a message from your instructor regarding your online assignment requirements. Faculty have discretion over adjusting deadlines or due date for assignments, but students are responsible for completing all assigned work by the due date established by the instructor.

Class Cancellation Policy

If the class is cancelled, the instructor will notify all students by posting in the D2L/NS Online course, e-mailing through D2L/NS Online, and/or by posting a sign on the classroom door. In the event of class cancellation, students must access D2L/NS Online to complete classwork and the assignment that will be posted in the course D2L site.

Communication Statement

In this time of uncertainty due to COVID-19, communication between student and faculty is key. At times, situations arise for one or both that makes that communication difficult or delayed. This can include but is not limited to health issues and/or problems with technology. If you have attempted to contact your instructor, and have waited the turnaround time as outlined in the syllabus but have not yet received a response, please reach out for additional support using this survey:

<https://forms.gle/rM7rxFarksRFeA3b8>