

**Department of Engineering Technology
Construction Engineering Technology Program
Course Policy – Fall 2025**

Title and Course Number

CET 322 – Construction Codes and Regulations

Credits and Contact Hours

Credits - 3 Hours - Lecture (3-0-3)

Course Meeting

This course will meet on Tuesday and Friday mornings, between 8:30 A.M. and 9:50 A.M. in Room CKB 212. All meetings are scheduled to be held on a face to face basis.

Course Description

An introduction to the New Jersey Municipal Land Use Law, the New Jersey Uniform Construction Code, the American with Disabilities Act and the International Building Code (IBC). A code analysis of a typical construction project is undertaken.

The student should familiarize themselves with the Learning Management Systems that will be employed this semester. These include Canvas and Zoom. For additional information on these systems, please review:

- Zoom: <https://njit-edu.zoom.us/profile>
- Canvas: <https://canvas.njit.edu/>

In the event that you need to contact your Instructor, please use the NJIT email system and do not use Canvas.

Emails sent via Canvas will not receive a response.

Prerequisites and Co-Requisites

None

Textbooks

New Jersey Municipal Land Use Law, NJSA 40:55D-1 et seq.

New Jersey Residential Site Improvement Standards, NJAC 5:21; available on the NJ Department of Community Affairs website.

New Jersey Uniform Construction Code NJAC 5:23-1 et seq.; available on the NJ Department of Community Affairs website.

International Building Code, 2021, International Code Council, Falls Church, Va.; Also available on the NJ Department of Community Affairs website.

Americans with Disabilities Act, https://codes.iccsafe.org/content/icca117-12017P4/chapter-1-application-and-administration#ICCA117.12017P2_Ch01_Sec103

All other building codes (Plumbing, electrical and fire) are available on the NJ Department of Community Affairs website.

Software Requirements

The use of Microsoft software will be required throughout the course. This will include the following MS products: Word and Excel. Use of AutoCAD and Revit may also be required. All Microsoft software as well as AutoCAD and Revit are available on the NJIT website for a free download.

Academic Integrity

Academic integrity is the cornerstone of higher education and is central to the ideals of this course and this university. Cheating devalues your degree is strictly prohibited. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the Academic code of integrity policy that is found at <http://www5.njit.edu/policies/files.academic-integrity-code.pdf>.

Please be aware that it is my professional obligation and responsibility to report any academic misconduct to the Office of the Dean of Students. Any student found in violation of the code by cheating, plagiarizing or using an online software inappropriate will result in disciplinary action this action may include a failing grade of an "XF", and/or suspension or dismissal from the University. If you have any questions concerning the Code of Academic Integrity, please feel free to contact the Dean of Students Office at DOS@njit.edu

Instructor

The instructor for this course is John A. Wiggins, P.E., P.P., J.D., F. ASCE. Professor Wiggins holds a BSCE degree (1973) from Newark College of Engineering, an MSCE degree (1981) from the New Jersey Institute of Technology and a Juris Doctor degree (1980) from the Seton Hall School of Law and is a full-time member of the faculty at NJIT holding the academic rank of Senior University Lecturer. He is also the Program Coordinator for the Construction Engineering Technology (CET) and Construction Management Technology (CMT) programs at NJIT. In addition to his teaching duties, Prof. Wiggins is a practicing civil engineer. He holds Professional Engineer and Professional Planner licenses from the State of New Jersey and a Professional Engineer's license from the Commonwealth of Pennsylvania as well as being admitted to the New Jersey State Bar. He is also a PhD candidate (ABD) in Civil Engineering at Rutgers University, New Brunswick, NJ where his principal area of study is Construction Engineering. Prof. Wiggins currently serves on the Planning Board of the Township of Irvington and has also served as a Planning Board and Zoning Board Attorney.

Oral and written communication requirements

The students will be required to produce various assignments and calculations as part of the assignments in this course. All communications between the Instructor and the student, regardless of type of communication (i.e., homework, email, calculation, oral conversation, etc.) are to be treated as professional communications. This requires that the rules of proper grammar and context be observed. Use of slang or computer shortcuts is discouraged. For instance, the proper form of address for your Instructor is "Prof." or "Doctor", depending on the Instructor. Unless otherwise noted, all documents will be submitted in Canvas.

Concepts and Skills (Course Learning Outcomes)

The Course Learning Outcomes support the achievement of the following CET Student Outcomes and ETAC of ABET Criterion 9 requirements

Upon completion of the course, each student will be able to:

1. Understand the Building permitting process in New Jersey and how it applies to the construction project.

2. Understand the requirements of the New Jersey Uniform Construction Code and how they apply to the construction project and the permit process.
3. Understand the general requirements of the International Building Code how they apply to the construction project.
4. Understand and apply the other building codes (electrical, plumbing and fire) in use in New Jersey

Professional Communications

All communications between the student and Instructor (homework, reports, papers, emails, etc.) are professional communications and should be treated as same. Use of slang and computer short-hand are improper and should be avoided. Also, proper grammar and spelling should be employed at all times.

Office Hours

Your Instructor maintains office hours on Wednesday mornings from 8:30 to noon. My office is located in Fenster Hall, Room 219.

Teaching Methods

A wide variety of instructional methods are used to provide students with meaningful learning experiences. These include individual problem solving and group problem solving in addition to the traditional lecture format.

Attendance Policy/Student Conduct

The class will start promptly at 8:30 A.M., however, as this is an early morning class, there will be a 10 minute “period of grace” prior to the start of the weekly quiz. This “Grace Period” will be dedicated to announcements and related news. The class will be conducted in a professional atmosphere in an effort to acquaint the students with the atmosphere of a professional environment. It is the student’s responsibility to attend class. If a class is missed, the student is responsible for all material and announcements provided during their absence. Assignments are posted on the course outline and in Canvas. Lecture attendance is not required but is strongly encouraged, and a portion of the student’s grade will be based on attendance, group tasks, and quizzes and “in-class” assignments, for which there is no “make up”. Taking the weekly quiz will also verify that the student is in attendance. However, just taking the quiz and then leaving will count as an absence. As the enrollment in this class is small, it is best if the student prepares for class each week.

The class will be conducted in a professional atmosphere in an effort to acquaint the students with the atmosphere of a professional environment. Therefore, cell phones, tablets and laptops are permitted in class for academic purposes only. This excludes emailing, text messaging and other social functions. Similarly, food is not permitted in class. A light beverage (i.e. coffee, a bottle of water, etc.) is permitted as would be in any business meeting. Hats should not be worn during class.

It is the student’s responsibility to attend class. If a class is missed, the student is responsible for all material and announcements provided during his absence. Assignments are posted on the course outline. Lecture attendance is not required but is encouraged but a portion of the student’s grade will be based on quizzes, group tasks and in-class assignments, for which there is no “make up”. Attendance will be taken at each class session via a sign-in sheet which will be circulated during the first 15 minutes of class. After that, any other students will be marked as not being in attendance and will not be permitted to add their name to the attendance list.

During the conduct of the class, professional courtesy is expected. This includes arriving on time as well as leaving during class, both of which can be done without disrupting the class. Similarly, “private” conversations with fellow students during a class are discourteous and inconsiderate to both your Instructor as well as your fellow students. You are encouraged to ask any questions that you feel further clarifies the material being presented or that will be to the benefit of class in general. Please feel free to ask any question at any time.

NJIT is committed to supporting students observing religious holidays. Students must notify their instructors in writing of any conflicts between course requirements and religious observances, ideally by the end of the second week of classes and no later than two weeks before the anticipated absence. Reasonable academic accommodations will be provided allowing students to complete missed assignments, exams, quizzes, or other coursework within the term. The Religious Holiday calendar can be found at <https://www.njit.edu/inclusive/religious-and-spirituality-resources>. Students will not be penalized for properly documented absences and maintain confidentiality regarding religious observances. For questions or additional guidance, please [review the policy](#) or contact the Office of Inclusive Excellence at inclusiveexcellence@njit.edu.

Policy on Use of Artificial Intelligence (AI)

For this course, it is expected that students will work without artificial intelligence (AI) assistance in order to better develop their skills in this content area. As such, AI usage is not permitted throughout this course under any circumstance. Violation of this policy will be considered as a violation of the NJIT Policy on Academic Integrity.

Grading Criteria

Rather than a Mid Term and a Final examination, three tests shall be administered throughout the course. Each test will focus only on the area covered in the weeks preceding the test and they will not be cumulative. Weekly quizzes, as noted on the course schedule, will also be given and counted for credit. There are no "make ups" for quizzes. The examinations shall cover only the material designated by the Instructor. It is strongly encouraged that all students make every effort to attend the examinations as make-up tests are strongly discouraged. In the event that a student fails to take all tests, a grade of "F" shall be entered for the student for this course. If a test is missed a makeup may be granted upon the specific approval of the Instructor and the window for the makeup is exactly one week from the original date of the test. Unless otherwise announced by the Instructor, all tests and examinations will be of the "closed notes-closed book" variety.

The weekly quizzes and the homework assignments will be used to assess the student's progress during the course as well as to be employed to assess the quality of student's effort and understanding of the material presented. All homework shall be submitted in Canvas, graded and returned to the student as soon as possible. Homework may be covered in class as a review for the student.

Homework and other assignments are due when they are due. Late assignments will not be accepted for credit.

In the completion of homework assignments, the assignment should be logically presented with citation to reference materials properly presented. It is suggested that, whenever possible, final answers be underlined or "boxed". All assignments are due at the time posted in the assignment and the homework will be posted by the student in Canvas. Once the portal for the submission of homework is closed, the assignment will not be accepted for credit.

If appropriate, computational homework may be legibly hand lettered in pencil or ink and shall be supplied on a sheet of gridded computational paper and scanned for submission. Gridded paper is available in the bookstore, at any stationary store or online. Written homework, when required, shall be submitted in a typed or in a word-processed format, 11- or 12-point font.

In determining the final grade for this course, all grades shall be weighted as follows:

Homework	20 %
Quizzes	20 %
Midterm Examination	25 %

Final Examination	25 %
Attendance/Participation	10%

Letter grades will be assigned based on the following scale

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

The grade of Incomplete will only be granted in the case of an extreme emergency on the part of the student, proved by adequate evidence. Your Instructor reserves the right to vary the above as necessary based on the results of the course.

Fall 2025 Master Course Schedule

Week	Date	Topic	Readings	Assignment
1	9/2/25 9/5/25	Course Introduction and Overview; Planning, Land Development and Laws, Regulations and Construction Codes.	None	Academic Engagement: Fall 2025
2	9/9/25 9/12/25	Overview of the New Jersey Uniform Municipal Land Use Law (MLUL)	MLUL – NJSA 40:55D-1 et seq	Assignment No. 1 - Your Town
3	9/16/25 9/19/25	The Uniform Construction Code	MLUL NJSA 40:55D-1 et seq	Assignment No. 2- Municipal Land Use Law
4	9/23/25 9/19/25	The Uniform Construction Code	NJAC 5:23	Assignment No. 3 – IBC Use Groups
5	9/30/25 10/3/25	The Uniform Construction Code	NJAC 5:21-1	Assignment No. 4- Inspections
6	10/7/25 10/10/25	The Uniform Construction Code	NJAC 5:23	Assignment No. 5
7	10/14/25 10/17/25	Mid Term Examination		
8	10/21/25 10/24/25	Introduction to the International Building Code	NJAC 5:23	Assignment No. 6
9	10/28/25 10/31/25	The International Building Code	NJAC 5:23-15	Assignment No. 7
10	11/4/25 11/7/25	The International Building Code; The Americans with Disabilities Act (ADA)	NJAC 5:23- 7	Assignment No. 8
11	11/11/25 11/14/25	The Americans with Disabilities Act (ADA)	NJAC 5:23-16	Assignment No. 9

12	11/18/25 11/21/25	Introduction to the National Electrical Code	NJAC 5:23-15	Assignment No. 10
13	11/26/25	Introduction to the National Plumbing Code Note: 11/25 – There is no class as on 11/25/25 Class will meet on Wednesday, 11/26. 11/27 and 11/28 are Thanksgiving	NJAC 5:23-70	Assignment No. 11
14	12/2/25 12/5/25	Introduction to the Uniform Fire Code/ Course Review		Assignment No. 12
15	12/9/25	Last class		
16	12/15/25 – 12/20/25	Final Exam week (Note: exact day of exam to be announced by Registrar)		

Other dates to remember:

11/2/25 - Wellness Day

11/10/25 - Last Day to Withdraw

11/25/25 – Classes follow a Thursday Schedule

11/26/25 – Classes follow a Friday Schedule