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Summer 5-15-2020

## **CET 322-450: Construction Regulations and Standards**

John Wiggins

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**Department of Engineering Technology  
Construction Engineering Technology Program  
Course Outline – Summer 2020**

**Title and Course Number:**

CET 322 - Construction Codes and Regulations

**Course Description:**

An introduction to the New Jersey Municipal Land Use, the New Jersey Site Improvement standards Act, Rehabilitation Law, New Jersey Uniform Construction Code, the International Building Code.

**Credits and Contact Hours:**

Credits - 3; Contact Hours – 3 Hours Lecture

**Prerequisites and Co-Requisites:**

Junior Status in Construction Engineering Technology or Construction Management Technology

**Textbook(s) and recommended materials:**

1. New Jersey Municipal Land Use Law (NJSA 40:55d) published by the NJ Federation of Planning Officials; latest edition.
2. Residential Site Improvement Standards (RSIS) published by the New Jersey Department of Community Affairs (NJDCA); This is available on line from the NJ Department of Community Affairs (<http://www.state.nj.us/dca/divisions/codes/offices/rsis.html>)
3. New Jersey Uniform Construction Code (NJAC 5:23) published by the New Jersey Department of Community Affairs; This is available on line from the NJ Department of Community Affairs (<http://www.state.nj.us/dca/divisions/codes/codreg/ucc.html>)
4. International Building Code, 2018. The instructor will be supplying additional materials for the course. These will be available either by email or through Moodle.

**Policy on Digital Media**

It is perfectly acceptable for a student to employ digital media (e-books, electronic downloads, pdfs, etc.) for use in class to follow the codes, regulations and laws that are a part of this course and these materials will be available for use during tests and examinations. As this course is expected to be delivered in a synchronous online mode, quizzes, tests and exams may be administered via Lockdown Browser and Respondus, which will lock down the student's browser and monitor the student during the exam.

**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. In addition to his teaching duties, Prof. Wiggins is a practicing civil engineer as a Municipal Engineer for over 40 years. 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 in Civil Engineering at Rutgers University, New Brunswick, NJ where his principal area of study is Construction Engineering.

**Oral and written communication requirements**

The students will be required to attend a planning or zoning board meeting and prepare a paper on the proceedings at the meeting. Additional instructions will be distributed during the course. However, due to the current health situation, this will be supplemented during the course by visiting a meeting in an online setting.

**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**

The Instructor is available online to all students. At the time of this writing face to face meetings are not possible.

**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. The lectures will be delivered using WebEx and will be posted in Canvas.

**Attendance Policy/Student Conduct**

The class will be conducted in a professional atmosphere in an effort to acquaint the students with the atmosphere of a professional environment. If a class is missed, the student is responsible for all material and announcements provided during his absence. Lecture attendance is required (except as noted below) and is a portion of the student's grade. Attendance will be taken during class.

During the conduct of the class, professional courtesy is expected. As the lectures will be delivered in WebEx, it is expected that students will mute their microphones during the lecture as it causes background interference. In the event that a student wants to ask a question, they can either raise their hand in WebEx and, when called on, unmute their microphone and ask their question. A question can also be posted in the "Chat" section of the WebEx page. 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. Education works best when there is a dialogue and not a monologue.

**Grading Criteria**

1. Examinations

A minimum of a Mid-term examination and a Final examination shall be administered throughout the course in Canvas. The Final Examination shall be a comprehensive examination of all material covered during this course. It is mandatory that the Mid-term and the Final Examination be taken to successfully complete course. 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 the Mid-term or the Final examination, a grade of "F" shall be entered for the student for this course. Unless otherwise announced by the Instructor, all tests and examinations will be of the "closed notes-closed book" variety.

2. Quizzes

A weekly quiz covering the readings assigned will be given via Canvas during the each class session as noted on the course schedule. The quiz will start 5 minutes into the class session and last for exactly 10 minutes. The quizzes will be closed book, closed notes quizzes. The student will have the ability to drop the lowest grade on any of the quizzes. No makeups will be given for the quizzes.

3. Homework

Homework assignments may be assigned to expand the student’s progress and understanding during the course. Homework will be submitted in Canvas and subject to the time constraints imposed in the assignment. Late assignments will not be accepted. 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". Please note that the NJIT University Code on Academic Integrity shall apply to all work submitted for credit including homework. (See <http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>)

4. Term Assignment

In order to experience the planning/zoning board process, the student will be required to attend a board meeting of their choosing. Presently, board meetings are being held in Zoom or WebEx so that students can view these meetings at their leisure. Students are free to attend any meeting of their choosing although it is recommended, and not mandatory, that the student view a board meeting of their hometown. This will be done outside of class time. An outline of the report of the meeting will be posted in Canvas.

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

<b>Mid Term Examination</b>	<b>30%</b>
<b>Final Examination</b>	<b>30%</b>
<b>Quizzes</b>	<b>20%</b>
<b>Term Assignment</b>	<b>10%</b>
<b>Attendance</b>	<b><u>10%</u></b>
<b>Total</b>	<b>100%</b>

**Grading Scale**

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.