I. Catalog Description and Credit Hours of Course
Study of the materials, procedures, and processes utilized in the building construction industry with primary emphasis on commercial construction. 3 credit hours

II. Prerequisite(s)
CM143

III. Purpose of the Course:
A. Demonstrate safe operation of tools and understanding of safe procedures
B. Understand basic properties of concrete and placing concrete
C. Understand other aspects of commercial construction
D. Identify different types of soils and their basic properties

IV. Student Learning Outcomes
- Students will be able to demonstrate safe operation of tools and equipment while conducting labs.
- Students will be able to identify and explain common concrete construction methods
- Students will be able to identify and explain basic soil types and their characteristics

V. Expectations of Students
A. Class attendance and participation are required, **both lecture and lab**.
B. Complete all assignments and projects on time.
C. Attend and participate in class discussions and labs.
D. Integrate the knowledge gained from their previous education and experience to apply to the project situation.
E. Learn any additional material required to complete the project, on their own, through the use of the library, communication with others both at the university and their project companies, and from any other applicable resources.
F. In a professional environment, work areas are kept clean. In keeping with a professional attitude towards fellow students, always clean your area before leaving.
G. All laboratory work must be completed during the regularly scheduled lab time.
H. The last day of class will be devoted to laboratory cleanup only. All students are required to participate.
I. Unexcused absences are unacceptable. If you are not going to be able to attend class for any reason, you must inform the instructor before the class you will be missing.
J. Students are required to read the assigned chapters for discussion and lab.
K. Late work is unacceptable unless pre-approved.
L. Assignments may not be turned in to department secretary.
M. Please no eating or drinking in the labs.
N. Headsets are not allowed during class time including lab time, unless approved by the instructor.
O. Cell phones, Pagers, Etc. must be turned off in class.
VI. Course Outline

<table>
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<tr>
<th>Description</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Safety</td>
<td>3</td>
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<tr>
<td>Commercial wiring</td>
<td>4</td>
</tr>
<tr>
<td>Concrete, rebar and concrete construction</td>
<td>21</td>
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<tr>
<td>Masonry and Masonry construction</td>
<td>4</td>
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<tr>
<td>Concrete testing</td>
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<td>Structural steel, steel erections and Connections</td>
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<td>Curtain Walls</td>
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<td>Soil properties and soil testing</td>
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<td>Summary and Field trip</td>
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<tr>
<td>Final</td>
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Note: Print reading to be integrated throughout the entire course. Students are required to work off prints for each lab exercise.

VII. Textbook(s) and/or Other Required Materials or Equipment

- Eye protection that meets current specifications of the American National Standards Institute (ANSI). Eye protection must be worn at all times that equipment and tools are being used by anyone.

VIII. Basis for Student Evaluation

Assignments/Labs ........................................ 40%
Quizzes .......................................................... 20%
Tests ............................................................. 20%
Final/Final Project ......................................... 20%

Grading Scale:
A = 100 - 90%
B = 89 - 80%
C = 79 - 70%
D = 69 - 60%
F = 59 - 0%

Instructor reserves the right to change the content and/or sequencing of the materials presented and will notify students of any change.

Questions, comments or requests regarding this course or program should be taken to your instructor. Unanswered questions or unresolved issues involving this class may be taken to the department chair, Dr. Deken (651-2104).