

# B.S. in Engineering Technology, Construction Management Technology

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The construction industry is an interesting and dynamic career that combines the elements of technical knowledge, management skills and creativity to breathe life into a set of plans, turning them into a real structure. The Construction Manager needs the technical ability to successfully interface with design professionals such as architects and engineers as well as the management skills to work with the talented trades persons that perform the actual work of construction. These skills are acquired in the classroom as well as through internships and co-op education programs and in all phases of the construction industry such as building construction as well as heavy/highway and utility construction. These internship and co-op opportunities are supported by our industry partners.

The students in NJIT's Construction Management Technology (CMT) program acquire a broad set of management skills as well as business, management, communication, and technical knowledge in order to successfully enter the construction management field. Graduates of our program are successful contractors, construction managers, project executives, project managers and construction inspectors. Graduates of the program are eligible to pursue graduate degrees in civil engineering, management or related areas and students may participate in the BS/MS Program (<http://www.njit.edu/graduatestudies/program-options/bs-ms/index.php>). The full four-year curriculum for the program is shown below. Students who wish to enter the program as a transfer student are typically students with an A.A.S. degree in Civil or Construction Engineering Technology and should have completed most or all of the courses, or their equivalents, in the first two years of the program as shown below. In the case of all students, both four-year and transfer, a minimum of 120 credits is required for graduation.

(120 credits minimum)

## First Year

1st Semester		Credits
CS 106	Roadmap to Computing for Engineers	3
MATH 138	General Calculus I	3
PHYS 102	General Physics	3
PHYS 102A	General Physics Lab	1
ENGL 101	English Composition: Introduction to Academic Writing	3
MET 103	Engineering Graphics and Intro. to CAD	2
ET 101	Introduction to Engineering Technology	0
FYS SEM	First-Year Student Seminar	0
<b>Term Credits</b>		<b>15</b>

## 2nd Semester

MATH 238	General Calculus II	3
PHYS 103	General Physics	3
PHYS 103A	General Physics Lab	1
ENGL 102	English Composition: Introduction to Writing for Research	3
MET 105	Applied Computer Aided Design	2
ECON 201	Economics	3
<b>Term Credits</b>		<b>15</b>

## Second Year

### 1st Semester

ACCT 115	Fundamentals of Financial Accounting	3
MGMT 290	Business Law I	3
History and Humanities GER 200 level ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/</a> )		3
SET 200	Introduction To Geomatics	3
SET 200A	Introduction to Geomatics Lab	1
<b>Term Credits</b>		<b>13</b>

### 2nd Semester

ACCT 215	Managerial Accounting I	3
MIS 245	Introduction to Management Information Systems	3
CIMT 205	Concrete Properties and Testing	3

History and Humanities GER 300+ level ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/</a> )	3
Technical or Management Elective	3
<b>Term Credits</b>	<b>15</b>
<b>Third Year</b>	
<b>1st Semester</b>	
MATH 305 Statistics for Technology	3
CET 313 Construction Procedures I	3
FIN 315 Fundamentals of Corporate Finance	3
CET 317 Construction Computing	3
CET 322 Construction Codes and Regulations	3
<b>Term Credits</b>	<b>15</b>
<b>2nd Semester</b>	
CET 314 Construction Procedures II	3
CMT 332 Structural Systems for Construction Management	3
HRM 301 Organizational Behavior	3
CET 323 Construction Safety	3
History and Humanities GER 300+ level ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/</a> )	3
<b>Term Credits</b>	<b>15</b>
<b>Fourth Year</b>	
<b>1st Semester</b>	
CET 411 Cost Estimating	3
CET 415 Construction Project Management	3
MNET 414 Industrial Cost Analysis	3
CMT 452 Mechanical and Electrical Systems for Construction	3
CET 421 Construction Contracts	3
Technical or Management Elective	3
<b>Term Credits</b>	<b>18</b>
<b>2nd Semester</b>	
CET 413 Environmental Science	3
CMT 436 Temporary Structures for Construction Management	3
CET 416 Senior Construction Project	2
MGMT 390 Principles of Business	3
Humanities and Social Science Senior Seminar GER ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/</a> )	3
<b>Term Credits</b>	<b>14</b>
<b>Total Credits</b>	<b>120</b>

See the **General Education Requirements** "Refer to the General Education Requirements for specific information for GER courses"