

B.S. in Construction Engineering Technology

(120 credits minimum)

First Year

1st Semester		Credits
MATH 138	General Calculus I	3
CS 106	Introduction to Computing ¹	3
PHYS 102	General Physics I	3
PHYS 102A	General Physics I Lab	1
ENGL 101	English Composition: Introduction to Academic Writing	3
MET 103	Introduction to Engineering Technology Design	2
ET 101	Introduction to Engineering Technology	0
FYS SEM	First-Year Student Seminar	0
Term Credits		15

2nd Semester

MATH 238	General Calculus II	3
PHYS 103	General Physics II	3
PHYS 103A	General Physics II Lab	1
ENGL 102	English Composition: Introduction to Writing for Research	3
MET 235	Statics for Technology	3
MET 105	Applied Computer Aided Design	2
Term Credits		15

Second Year

1st Semester

MET 237	Strength of Materials for Technology	3
ECET 201	Circuits I	3
Technical Elective		3
SET 200	Introduction To Geomatics	2
SET 200A	Introduction to Geomatics Lab	1
History and Humanities GER 200 level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/)		3
Term Credits		15

2nd Semester

CET 233	Structural Analysis in Construction	3
Social Science Literacy GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/social-science-ger/)		3
Technical Elective		3
History and Humanities GER 300+ level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/)		3
Technical Elective		3
Term Credits		15

Third Year

1st Semester

CET 313	Principles of Heavy Highway Construction	3
CET 317	Construction Computing	3
CET 322	Construction Codes and Regulations	3
MET 303	Applied Thermodynamics	3
MATH 305	Statistics for Technology	3
Term Credits		15

2nd Semester

CET 314	Principles of Building Construction	3
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CET 331	Structural Systems	3
CET 341	Soils and Earthwork	3
SET 440	Land Development	3
History and Humanities GER 300+ level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/)		3
Term Credits		15
Fourth Year		
1st Semester		
CET 423	Construction Safety	3
CET 411	Cost Estimating	3
CET 415	Construction Project Management	3
CET 421	Construction Contracts	3
CET 431	Construction Testing	3
Term Credits		15
2nd Semester		
CET 416	Senior Construction Project	3
CET 413	Environmental Science	3
CET 435	Design of Temporary Structures	3
MNET 414	Industrial Cost Analysis	3
Humanities and Social Science Senior Seminar GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/)		3
Term Credits		15
Total Credits		120

¹ This Computing Literacy GER can be satisfied with any course from this link: [linkurl^/undergraduate/academic-policies-procedures/general-education-requirements/computer-science-ger/](http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/computer-science-ger/)^Computing Literacy GER.

MATH 107/108/110 cannot be used to satisfy any technical electives.

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