B.S. in Surveying Engineering Technology

(120 credits minimum)

First Year		
1st Semester		Credits
MATH 138	General Calculus I	3
SDET 101 or CS 106	Fundamentals of Software and Data Technologies ¹ or Introduction to Computing	3
ENGL 101	English Composition: Introduction to Academic Writing	3
PHYS 102	General Physics I	3
PHYS 102A	General Physics I Lab	1
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
ENGL 102	English Composition: Introduction to Writing for Research	3
ACCT 117	Principles Of Fin Accountng	3
MET 105	Applied Computer Aided Design	2
Technical Elective		3
	Term Credits	14
Second Year		
1st Semester		
SET 200	Introduction To Geomatics	2
SET 200A	Introduction to Geomatics Lab	1
MGMT 290	Business Law I	3
Scientific Literacy GE natural-science-ger/)	R (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/	3
Technical Elective		3
Free Elective		3
	Term Credits	15
2nd Semester		
SET 207	Evidence and Procedures for Property Surveys	3
MIS 245	Introduction to Management Information Systems	3
Social Science Literac requirements/social-se	cy GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education- cience-ger/)	3
History and Humanitie requirements/ger-200	es GER 200 level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education- -level/)	3
Technical Elective		3
	Term Credits	15
Third Year		
1st Semester		
SET 307	Boundaries and Adjacent Properties	3
CET 322	Construction Codes and Regulations	3
CET 317	Construction Computing	3
CET 313	Principles of Heavy Highway Construction	3
SET 301	Route Surveying	3
	Term Credits	15
2nd Semester		
ENGR 303	Photogrammetry and Aerial Photo Interpretation	3

SET 304	Adjustment Computations I	3
MATH 305	Statistics for Technology	
CET 340	Land Development	
COM 212		
	Term Credits	15
Fourth Year		
1st Semester		
SET 400	Digital Surveying Methods	3
SET 401	Fundamentals Of Geodesy	3
ENGR 440	Geographic/Land Information Systems	3
History and Hum	nanities GER 300+ level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-	3
requirements/ge	r-300-level/)	
Technical Electiv	/e	3
	Term Credits	15
2nd Semester		
CET 413	Environmental Science	3
SET 407	Boundary Line Analysis	4
SET 490	Senior Project in Surveying	3
Humanities and	Social Science Senior Seminar GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/	3
general-education	on-requirements/hss-capstone/)	
Technical Electiv	/e	3
	Term Credits	16
	Total Credits	120

Approved Technical Electives

Code	Title	Credits
CET 314	Principles of Building Construction	3
ENGR 215	Raster-based Geographic Information System	3
ENGR 320	Prototyping Essentials	3
ENGR 330	Applications of Microcontrollers and IoT devices	3
ENGR 340	Vector-based Geographic Information System	3
ENGR 405	Reality Capture of the Built Environment	3
ENGR 420	Remote Sensing of the Environment	3
ENGR 423	Drone Science Fundamentals	3
ENGR 424	Robotics Science Fundamentals	3
ENGR 433	Remote Sensing Digital Image Processing	3
ENGR 480	Hydrographic Mapping	3
IS 265	Introduction to Information Systems	3
MET 235	Statics for Technology	3
MET 237	Strength of Materials for Technology	3
SDET 102	Applications of Software Engineering Technology	3
SDET 201	Data Engineering	3

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

¹ This Computing Literacy GER can be satisfied with any course from this link: linkurl//undergraduate/academic-policies-procedures/generaleducation-requirements/computer-science-ger/^Computing Literacy GER.

This curriculum represents the maximum number of credits per semester for which a student is advised to register. A full-time credit load is 12 credits. First-year students are placed in a curriculum that positions them for success which may result in additional time needed to complete curriculum requirements. Continuing students should consult with their academic advisor to determine the appropriate credit load.