B.S. in Engineering Technology, Surveying Engineering Technology

(120 credits minimum)

First Year		
1st Semester		**Credits**
CS 106	Introduction to Computing	3
ENGL 101	English Composition: Introduction to Academic Writing	3
MATH 111	Calculus I	4
PHYS 111	Physics I	3
PHYS 111A	Physics I Lab	1
ET 101	Introduction to Engineering Technology	0
FYS SEM	First-Year Student Seminar	0
	Term Credits	**14**
2nd Semester		
Select one of the following:		3
EVSC 125	Fundamentals of Environmental Sciences	
CHEM 121	Fundamentals of Chemical Principles I	
BIOL 200	Concepts in Biology	
ENGL 102	English Composition: Introduction to Writing for Research	3
MATH 112	Calculus II	4
PHYS 121	Physics II	3
PHYS 121A	Physics II Lab	1
MET 103	Engineering Graphics and Intro. to CAD	2
	Term Credits	**16**
Second Year		
1st Semester		
MGMT 290	Business Law I	3
Math Elective [1]		3
Computer Science/Technology/Engineering Elective [2]		3
SET 200	Introduction To Geomatics	3
SET 200A	Introduction to Geomatics Lab	1
SET 207	Evidence and Procedures for Property Surveys	3
	Term Credits	**16**
2nd Semester		
MATH 305	Statistics for Technology	3
ECON 201 or EPS 202	Economics or Society, Technology, and the Environment	3
History and Humanities GER 200 level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/)		3
SET 280	Marine Surveying	4
Computer Science/Technology/Engineering Elective [2]		3
	Term Credits	**16**
Third Year		
1st Semester		
SET 304	Adjustment Computations I	3
SET 307	Boundaries and Adjacent Properties	3
CE 321	Water Resources Engineering	3
COM 313	Technical Writing	3

SET 301	Route Surveying	4
	Term Credits	**16**
2nd Semester		
SET 302	Geodetic Control Surveying	4
SET 303	Photogrammetry and Aerial Photo Interpretation	4
SET 360	Digital Surveying Methods	3
History and Humanities GER 300+ level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/)		3
	Term Credits	**14**
Fourth Year		
1st Semester		
SET 404	Adjustment Computations II	3
SET 420	Geographic/Land Information Systems	4
Computer Science/Technology/Engineering Elective [2]		3
Free Elective		3
	Term Credits	**13**
2nd Semester		
SET 401	Fundamentals Of Geodesy	3
SET 407	Boundary Line Analysis	4
SET 490	Senior Project in Surveying	2
SET 440	Land Development	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 MATH 337 (http://catalog.njit.edu/search/?P=MATH%20337) Linear Algebra is recommended. Acceptable alternatives are MATH 211 Calculus III A, MATH 213 (http://catalog.njit.edu/search/?P=MATH%20213) Calculus III B, MATH 226 (http://catalog.njit.edu/search/?P=MATH%20226) Discrete Analysis, MATH 240 (http://catalog.njit.edu/search/?P=MATH%20240) Numerical Mathematics Laboratory.

2 List of Approved Computer Literacy and/or Technology Elective
IS 265 - Introduction to Information Systems
IS 465 - Advanced Information Systems
CS 331 – Database Systems Design and Management
CS 435 - Advanced Data Structures and Algorithm Design
SET 403 - Remote Sensing Principles for Geomatics

Other Technical/Engineering Elective

Civil/Environmental/Engineering, Construction Engineering Technology, Computer courses

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.