

**Dual Degree Program (151 credits)**  
**B.S. in Mechanical Engineering Technology (MET)**  
**B.S. in Surveying Engineering Technology (SET)**

**Freshman (36 credits)**

MATH 138 (GER)	General Calculus I	3		MATH 238	General Calculus II	3	
SDET 101 or CS 106 (GER)	Fundamentals of Software and Data Technologies <sup>1</sup> or Introduction to Computing	3		PHYS 103	General Physics II	3	
PHYS 102	General Physics I	3		PHYS 103A	General Physics II Lab	1	
PHYS 102A	General Physics I Lab	1		ENGL 102	English Comp: Introduction to Writing for Research	3	
ENGL 101 (GER)	English Comp: Writing, Thinking, Speaking	3		MET 235	Statics for Technology	3	
MET 103	Engrg Graphics & Intro to CAD	2		MET 105	Applied Computer Aided Design	2	
ACCT 117	Principles Of Fin Accounting	3		ECET 201	Circuits I	3	
ET 101	Intro. to Engineering Tech.	0					
Freshman Seminar	Freshman Seminar	0					
	<b>Total:</b>	(18)			<b>Total:</b>	(18)	

**Sophomore (36 credits)**

MET 236	Dynamics for Technology	2		MNET 215	Materials and Processes for Technology	3	
SET 207	Evidence and Procedures for Property Surveys	3		MGMT 290	Business Law I	3	
MIS 245	Introduction to Management Information Systems	3		MET 237	Strength of Materials for Technology	3	
SET 200	Introduction to Geomatics	2		Social Science Literacy GER		3	
SET 200A	Introduction to Geomatics Lab	1		COM 313	Technical Writing	3	
History and Humanities GER 200 level		3		MET 205	Advanced Computer Aided Design	3	
CHEM 121	Fundamentals of Chemical Principles I	3					
CHEM 125A	General Chemistry Lab I	1					
	<b>Total:</b>	(18)			<b>Total:</b>	(18)	

**Junior (36 credits)**

CET 313	Principles of Heavy Highway Construction	3		MET 303	Applied Thermodynamics	3	
CET 317	Construction Computing	3		MET 302	Analysis and Design of Machine Elements II	3	
MET 301	Analysis and Design of Machine Elements I	3		ENGR 303	Photogrammetry and Aerial Photo Interpretation	3	
CET 322	Construction Codes and Regulations	3		CET 340	Land Development	3	
SET 307	Boundaries and Adjacent Properties	3		SET 304	Adjustment Computations I	3	
SET 301	Route Surveying	3		MET 314	Dynamics of Machinery	3	
	<b>Total:</b>	(18)			<b>Total:</b>	(18)	

**New Jersey Institute of Technology**

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**Senior (34 credits)**

SET 400	Digital Surveying Methods	3		CET 413	Environmental Science	3	
MET 304	Applied Fluid Mechanics	3		MNET 414	Industrial Cost Analysis	3	
ECET 329	Analog and Digital Electronics	3		MET 415	Automatic Control Systems	3	
ENGR 440	Geographic/Land Information Systems	3		SET 407	Boundary Line Analysis	4	
SET 401	Fundamentals Of Geodesy	3		History and Humanities GER 300+ level		3	
MET 403	Applied Thermodynamics II	3					
	<b>Total:</b>	(18)			<b>Total:</b>	(16)	

**Fifth Year (9 credits)**

MNET 315	Industrial Statistics	3					
ET 450	Multidisciplinary Capstone Project	3					
	Humanities and Social Science Senior Seminar GER	3					
	<b>Total:</b>	(9)					

<sup>1</sup>. This Computing Literacy GER can be satisfied with any course from the Computing Literacy GER.