B.S. in Engineering Technology, Software and Data Engineering Computer Technology

(120 credits minimum)

1st Semester		Credits
SDET 101	or Introduction to Computing	oroun
or CS 106		
ENGL 101	English Composition: Introduction to Academic Writing	
FYS SEM	First-Year Student Seminar	
MATH 138	General Calculus I	
ET 101	Introduction to Engineering Technology	
MET 103	Engineering Graphics and Intro. to CAD	
Social Science Lite requirements/socia	eracy GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education- al-science-ger/)	
	Term Credits	14
2nd Semester		
SDET 102	Applications of Software Engineering Technology	:
Scientific Literacy requirements/natu	GER with Lab (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education- ral-science-ger/)	4
CS 115	Introduction to Computer Science I in C++	:
ENGL 102	English Composition: Introduction to Writing for Research	;
MATH 105	Elementary Probability and Statistics	;
	Term Credits	10
Second Year		
1st Semester		
ECET 215	Introduction to Digital Electronics	;
History and Huma requirements/ger-2	nities GER 200 level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education- 200-level/)	:
IT 201	Information Design Techniques	:
Scientific Literacy natural-science-ge	GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ er/)	;
Technical Elective		;
Free Elective		;
	Term Credits	11
2nd Semester		
SDET 201	Data Engineering	;
IT 120	Introduction to Network Technology	;
IT 202	Internet Applications	:
Technical Elective		:
Free Elective		:
	Term Credits	1
Third Year		
1st Semester		
SDET 330	Software Web Applications for Engineering Technology I	:
COM 313	Technical Writing	:
IS 331	Database Design Management and Applications	:
ECET 311	Embedded Systems I	;
Technical Elective		:
Free Elective		

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2nd Semester

SDET 335	SDET 335 Networks Applications for Software and Data Engineering Technology I		
History and Hur requirements/get	manities GER 300+ level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education- er-300-level/)	3	
ECET 411	Embedded Systems II	3	
Technical Electi	ive	3	
Free Elective		3	
	Term Credits	15	
Fourth Year			
1st Semester			

	Total Credits	120	
	Term Credits	12	
Technical Electiv	/e	3	
SDET 435	Networks Applications for Software and Data Engineering Technology II	3	
SDET 401	Senior Project	3	
ENGR 424	Robotics Science Fundamentals	3	
2nd Semester			
	Term Credits	12	
Technical Electiv	/e	3	
	Social Science Senior Seminar GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/ on-requirements/hss-capstone/)	3	
SDET 430	Software Web Applications for Engineering Technology II		
ENGR 423	Drone Science Fundamentals		

Approved Technical Electives

Code	Title	Credits
MIT 231	Intro to Comp Security:Med Dev	3
MIT 326	Electronic Medical Record Design	3
BMET 320	Applied Biomedical Data Acquisition	3
BMET 415	Biomedical Mechatronics	3
BMET 440	Biomedical Experiential Learning	3
SDET 310	Computer Design Fundamentals for Software and Data Engineering Technology	3
SDET 315	Computer Architecture for Software and Data Engineering Technology	3
SDET 325	Medical Informatics Technology	3
SDET 341	Visual Basic.NET for Engineering Technology	3
SDET 373	Web App Development for Mobile	3
SDET 395	Co-op Work Experience I	3
SDET 425	Medical Informatics Technology II	3
SDET 440	Visual Basic Applications for Engineering Technology	3

Medical Informatics Specialization:

Code	Title	Credits
Complete the following 4 courses:		
SDET 325	Medical Informatics Technology	
SDET 425	Medical Informatics Technology II	
MIT 326	Electronic Medical Record Design	
R120 141	Anatomy & Physiology	
Techincal Electives:		
Select two of the following:		
IT 220	Wireless Networks	
IT 330	Computer Forensic	
IT 331	Privacy and Information Technology	

IT 332	Digital Crime
IT 430	Ethical Hacking for System Administrators
CS 434	Advanced Database Systems
CS 608	Cryptography and Security
CS 639	Elec. Medical Records: Med Terminologies and Comp. Imp.
R120 102	General Biology II
R120 142	Anatomy & Physiology