

Software and Data Engineering Technology (SDET) Program (120 credits)

Freshman (30 credits)

SDET 101 OR CS 106 (GER)	Fundamentals of Software and Data Technologies OR Roadmap to Computing Engineers	3		SDET 102	Applications of Software Engineering Technology	3	
ENGL 101 (GER)	English Comp: Writing, Thinking, Speaking	3		Scientific Literacy GER with Lab		4	
Freshman Seminar	Freshman Seminar	0		CS 115	Introduction to Computer Science in C++ 3	3	
MATH 138 (GER)	General Calculus I	3		ENGL 102 (GER)	English Comp: Writing, Thinking, Speaking II	3	
MET 103	Engrg Graphics & Intro to CAD	2		MATH 105	Elementary Probability and Statistics	3	
ET 101	Intro. to Engineering Tech.	0					
Social Science Literacy GER		3					
	Total:	(14)			Total:	(16)	

Sophomore (33 credits)

ECET 215	Introduction to Digital Electronics	3		SDET 201	Data Engineering	3	
History and Humanities GER 200 level		3		IT 120	Introduction to Network Technology	3	
IT 201	Information Design Techniques	3		IT 202	Internet Applications	3	
Scientific Literacy GER		3		Elective	Technical Elective	3	
Elective	Technical Elective	3		Elective	Free Elective	3	
Elective	Free Elective	3					
	Total:	(18)			Total:	(15)	

Junior (33 credits)

CPT 330	Software Web Applications for Engineering Technology I 3	3		CPT 335	Networks Applications for Computer Technology I	3	
COM 313	Technical Writing	3		History and Humanities GER 300+ level		3	
IS 331	Database Design Management and Applications 3	3		ECET 411	Embedded Systems II	3	
ECET 311	Embedded Systems I	3		Elective	Technical Elective	3	
Elective	Technical Elective	3		Elective	Free Elective	3	
Elective	Free Elective	3					
	Total:	(18)			Total:	(15)	

Senior (24 credits)

ENGR 423	Drone Science Fundamentals	3		ENGR 424	Robotics Science Fundamentals	3	
CPT 430	Software Web Applications for Engineering Technology II	3		CPT 401	Senior Project	3	
Humanities and Social Science Senior Seminar GER		3		CPT 435	Networks Applications for Computer Technology II 3	3	
Elective	Technical Elective	3		Elective	Technical Elective	3	
	Total:	(12)			Total:	(12)	

Approved Technical Electives:

CODE	TITLE	CREDITS
CPT 310	Computer Design Fundamentals for Computer Technology	3
CPT 315	Computer Architecture for Computer Technology	3
CPT 325	Medical Informatics Technology	3
CPT 373	Web App Development for Mobile	3
CPT 395	Co-op Work Experience I	3
CPT 341	Visual Basic.NET for Engineering Technology	3
CPT 425	Medical Informatics Technology II	3
CPT 440	Visual Basic Applications for Engineering Technology	3
MIT 231	Intro to Comp Security:Med Dev	3
MIT 326	Electronic Medical Record Design	3
MIT 440	Clinical Internship	3
BMET 320	Applied Biomedical Data Acquisition	3
BMET 415	Biomedical Mechatronics	3

Additional courses from other departments may be substituted as Technical Electives after obtaining prior approval from the SDET Program Coordinator.

Medical Informatics Specialization:

Complete the following 4 courses:

CODE	TITLE	CREDITS
CPT 325	Medical Informatics Technology	3
CPT 425	Medical Informatics Technology II	3
CPT 440	Visual Basic Applications for Engineering Technology	3
MIT 326	Electronic Medical Record Design	3
R 120 141	Anatomy & Physiology	4

Select two of the following:

CODE	TITLE	CREDITS
IT 220	Wireless Networks	3
IT 330	Computer Forensic	3
IT 331	Privacy and Information Technology	3
IT 332	Digital Crime	3
IT 430	Ethical Hacking for System Administrators	3
CS 434	Advanced Database Systems	3
CS 608	Cryptography and Security	3
CS 639	Elec. Medical Records: Med Terminologies and Comp. Imp.	3
R120 102	General Biology II	4
R120 142	Anatomy & Physiology	4

Co-op:

Co-op courses must be approved by the SDET Program Coordinator and Career Development Services. CPT 395 is taken as an elective for degree credit. Students taking a Full-Time Co-op may only register for a maximum of 9 credits including Co-op, but are full-time.