



Bachelor of Science in Computer Engineering Model Study Plan (2020-2021 Cohort onwards)

For Students Admitted to the University from the Fall Semester

Total Degree Credit hours: 144

Semester	Course Code	Course Title	CR	Course Type	Semester	Course Code	Course Title	CR	Course Type
Year 1 1 (Fall)	ENGL1001	Introduction to Academic English for Information Technology	3	Gen Ed Course (Cluster 1 - Area 2: English Communication)	Year 1 2 (Spring)	CMAT201	Discrete Mathematics	3	College Requirement
	ENGL1002	Calculus I	3	Gen Ed Course (Cluster 1 - Area 2: Quantitative Reasoning)		CMAT202	Calculus	3	College Requirement
	CMPT110	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1 - Area 4: Critical Thinking)		CMPT210	Object Oriented Programming	3	College Requirement
	PHYS100	General Physics I	3	Gen Ed Course (Cluster 1 - Area 3: Natural Sciences)		CMPT215	Digital Design & Computer Organization	3	College Requirement
	ENGL112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1 - Area 3: Fourth Industrial Revolution)		CMPT211	Programming Lab I	1	Specialization
Year 2 3 (Fall)	PHYS115	General Physics Lab I	1	Specialization	CMPT212	Systems Studies	1	Gen Ed Course (Cluster 2 - Area 3: Emirati Society)	
	CMPT115	Linear Algebra I	3	Specialization	CMAT215	Calculus II	3	Specialization	
	CMAT201	Discrete Mathematics	3	Specialization	CMAT211	Computer Architecture	3	Specialization	
	CMAT202	Calculus	3	Specialization	CMAT212	Electronics Fundamentals	3	Specialization	
	PHYS110	General Physics II	3	Specialization	CMPT210	Communication & Networks Fundamentals	3	Specialization	
Year 3 5 (Fall)	PHYS140	General Physics Lab II	1	Specialization	ENGL201	English: General Chemistry I (Chowdhury)	3	College Requirement	
	ENGL121	Sustainability	3	Gen Ed Course (Cluster 3 - Area 2: Sustainability)	SUM100	Islamic Culture	3	Gen Ed Course (Cluster 2 - Area 4: Islamic Culture)	
	CMPT114	Data Structures	3	College Requirement	CMPT210	Digital and Systems	3	Specialization	
	CMPT116	Electronic Circuits	3	Specialization	CMPT214	Digital System Design	3	Specialization	
	CMPT117	Electronic Circuits Lab	1	Specialization	CMPT215	Digital Design Lab	1	Specialization	
Year 4 7 (Fall)	CMPT118	Introduction to Embedded Systems	3	Specialization	CMPT216	Introduction to Embedded Systems	3	Specialization	
	CMPT119	Introduction to Embedded Systems Lab	1	Specialization	CMPT217	Computer Systems Fundamentals	3	College Requirement	
	STAT210	Probability and Statistics	3	College Requirement	CMPT219	Networking Lab	1	Major Elective	
	ITSP201	Security Principles & Practice	3	Specialization	CMPT219	Networking Lab	1	Major Elective	
	CMPT210	Computer Network Protocols	3	Major Elective	CMPT219	Networking Lab	1	Major Elective	
Year 5 9 (Fall)	CMPT210	Computer Network Protocols	3	Major Elective	CMPT219	Networking Lab	1	Major Elective	
	CMPT210	Computer Network Protocols	3	Major Elective	CMPT219	Networking Lab	1	Major Elective	
	CMPT210	Computer Network Protocols	3	Major Elective	CMPT219	Networking Lab	1	Major Elective	
	CMPT210	Computer Network Protocols	3	Major Elective	CMPT219	Networking Lab	1	Major Elective	
	CMPT210	Computer Network Protocols	3	Major Elective	CMPT219	Networking Lab	1	Major Elective	

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For Students Admitted to the University from the Spring Semester

Total Degree Credit hours: 144

Semester	Course Code	Course Title	CR	Course Type	Semester	Course Code	Course Title	CR	Course Type
Year 1 1 (Spring)	ENGL1001	Introduction to Academic English for Information Technology	3	Gen Ed Course (Cluster 1 - Area 2: English Communication)	Year 1 2 (Fall)	CMAT201	Discrete Mathematics	3	College Requirement
	ENGL1002	Calculus I	3	Gen Ed Course (Cluster 1 - Area 2: Quantitative Reasoning)		CMAT202	Calculus	3	College Requirement
	CMPT110	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1 - Area 4: Critical Thinking)		CMPT210	Object Oriented Programming	3	College Requirement
	PHYS100	General Physics I	3	Gen Ed Course (Cluster 1 - Area 3: Natural Sciences)		CMPT215	Digital Design & Computer Organization	3	College Requirement
	ENGL112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1 - Area 3: Fourth Industrial Revolution)		CMPT211	Programming Lab I	1	Specialization
Year 2 3 (Spring)	PHYS115	General Physics Lab I	1	Specialization	CMPT212	Systems Studies	1	Gen Ed Course (Cluster 2 - Area 3: Emirati Society)	
	CMPT115	Linear Algebra I	3	Specialization	CMAT215	Calculus II	3	Specialization	
	CMAT201	Discrete Mathematics	3	Specialization	CMAT211	Computer Architecture	3	Specialization	
	CMAT202	Calculus	3	Specialization	CMAT212	Electronics Fundamentals	3	Specialization	
	PHYS110	General Physics II	3	Specialization	CMPT210	Communication & Networks Fundamentals	3	Specialization	
Year 3 5 (Spring)	PHYS140	General Physics Lab II	1	Specialization	ENGL201	English: General Chemistry I (Chowdhury)	3	College Requirement	
	ENGL121	Sustainability	3	Gen Ed Course (Cluster 3 - Area 2: Sustainability)	SUM100	Islamic Culture	3	Gen Ed Course (Cluster 2 - Area 4: Islamic Culture)	
	CMPT114	Data Structures	3	College Requirement	CMPT210	Digital and Systems	3	Specialization	
	CMPT116	Electronic Circuits	3	Specialization	CMPT214	Digital System Design	3	Specialization	
	CMPT117	Electronic Circuits Lab	1	Specialization	CMPT215	Digital Design Lab	1	Specialization	
Year 4 7 (Spring)	CMPT118	Introduction to Embedded Systems	3	Specialization	CMPT216	Introduction to Embedded Systems	3	Specialization	
	CMPT119	Introduction to Embedded Systems Lab	1	Specialization	CMPT217	Computer Systems Fundamentals	3	College Requirement	
	STAT210	Probability and Statistics	3	College Requirement	CMPT219	Networking Lab	1	Major Elective	
	ITSP201	Security Principles & Practice	3	Specialization	CMPT219	Networking Lab	1	Major Elective	
	CMPT210	Computer Network Protocols	3	Major Elective	CMPT219	Networking Lab	1	Major Elective	
Year 5 9 (Spring)	CMPT210	Computer Network Protocols	3	Major Elective	CMPT219	Networking Lab	1	Major Elective	
	CMPT210	Computer Network Protocols	3	Major Elective	CMPT219	Networking Lab	1	Major Elective	
	CMPT210	Computer Network Protocols	3	Major Elective	CMPT219	Networking Lab	1	Major Elective	
	CMPT210	Computer Network Protocols	3	Major Elective	CMPT219	Networking Lab	1	Major Elective	
	CMPT210	Computer Network Protocols	3	Major Elective	CMPT219	Networking Lab	1	Major Elective	