

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

For Students Admitted to the University from the Fall Semester
Total Degree Credit hours: 147

Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Fall)	GBT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	Year 1 (Spring)	PHYS105	General Physics I	3	College Requirement
	ESPE107	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 2: English Communication)		PHYS105	General Physics Lab I	1	College Requirement
	MATH1110	Calculus for Engineering	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)		STAT210	Probability and Statistics	3	College Requirement
	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		GESU221	Sustainability	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	CHEM175	Chemistry Lab For Engineering	1	College Requirement		MATH210	Calculus II for Engineering	3	College Requirement
ISLM100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)	ENGE215	Engineering Ethics	2	College Requirement		
Year 2 (Fall)	CIVL240	Statics	3	Specialization	Year 2 (Spring)	MECH305	Mechanics of Materials	3	Specialization
	CIVL220	Computer Aided Drawing (CAD)	2	Specialization		CIVL310	Structural Analysis	3	Specialization
	CIVL270	Introduction to Environmental Engineering	2	Specialization		MATH2210	Differential Equations for Engineering	3	College Requirement
	ENGE220	Engineering Thermodynamics	3	College Requirement		ENGE240	Computer Programming	3	College Requirement
	MATH2220	Linear Algebra for Engineering	3	College Requirement		BIOC250	Basic Microbiology	3	Specialization
HSIS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)	Year 3 (Fall)	CIVL360	Concrete Technology	3	Specialization	
Year 3 (Fall)	CHEM2706	Materials Science	3		Specialization	CIVL365	Reinforced Concrete Design I	3	Specialization
	CIVL345	Fluid Mechanics for Civil and Architectural Engineering	3		Specialization	CIVL330	Transportation Engineering	3	Specialization
	CIVL335	Surveying	3		Specialization	CIVL375	Water & Wastewater Technology	3	Specialization
	CIVL340	Soil Mechanics	3		Specialization	ENGE215	Engineering Economics	1	College Requirement
	PHYS100	General Physics I	3	College Requirement	HRIS200	Introduction to Heritage & Culture	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	
PHYS140	General Physics Lab II	1	College Requirement	Year 4 (Spring)	CIVL412	Reinforced Concrete Design II	3	Specialization	
Year 4 (Fall)	CIVL400	Water Resources	3		Specialization	CIVL417	Foundation Engineering	3	Specialization
	CIVL433	Highway Engineering	3		Specialization	CHEM222	Carbon Engineering Design Project	3	Specialization
	CIVL445	Construction Management	3		Specialization	CIVL520	Fundamentals of Innovation and Entrepreneurship	1	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	CIVL417	Structural Steel Design	3		Specialization	CIVL510	Special Topics in Structural Engineering	3	Major Elective
	CIVL585	Design and Critical Thinking in Civil Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)	CIVL520	Special Topics in Water Resources & Environmental Engineering	3	Major Elective	
CIVL540	Special Topics in Construction Management	3	Major Elective	Year 5 (Fall)	CIVL495	Industrial Training	15	Internship	

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Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Spring)	GBT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	Year 1 (Fall)	PHYS105	General Physics I	3	College Requirement
	ESPE107	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 2: English Communication)		PHYS105	General Physics Lab I	1	College Requirement
	MATH1110	Calculus for Engineering	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)		STAT210	Probability and Statistics	3	College Requirement
	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		GESU221	Sustainability	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	CHEM175	Chemistry Lab For Engineering	1	College Requirement		MATH1120	Calculus II for Engineering	3	College Requirement
ISLM100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)	ENGE215	Engineering Ethics	2	College Requirement		
Year 2 (Spring)	CIVL240	Statics	3	Specialization	Year 2 (Fall)	MECH305	Mechanics of Materials	3	Specialization
	CIVL220	Computer Aided Drawing (CAD)	2	Specialization		CIVL310	Structural Analysis	3	Specialization
	CIVL270	Introduction to Environmental Engineering	2	Specialization		MATH2210	Differential Equations for Engineering	3	College Requirement
	ENGE220	Engineering Thermodynamics	3	College Requirement		BIOC250	Basic Microbiology	3	Specialization
	MATH2220	Linear Algebra for Engineering	3	College Requirement		CHEM2706	Materials Science	3	College Requirement
HSIS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)	Year 3 (Spring)	CIVL360	Concrete Technology	3	Specialization	
Year 3 (Spring)	CIVL345	Fluid Mechanics for Civil and Architectural Engineering	3		Specialization	PHYS110	General Physics II	3	College Requirement
	CIVL335	Surveying	3		Specialization	PHYS140	General Physics Lab II	1	College Requirement
	CIVL340	Soil Mechanics	3		Specialization	CIVL330	Transportation Engineering	3	Specialization
	ENGE215	Engineering Economics	3		College Requirement	CIVL375	Water & Wastewater Technology	3	Specialization
	HRIS200	Introduction to Heritage & Culture	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	CIVL340	Soil Mechanics	3	Specialization	
Year 4 (Spring)	CIVL412	Reinforced Concrete Design II	3	Specialization	Year 4 (Fall)	ENGE230	Computer Programming	3	College Requirement
	CIVL442	Foundation Engineering	3	Specialization		CIVL417	Structural Steel Design	3	Specialization
	CIVL445	Construction Management	3	Specialization		CIVL433	Highway Engineering	3	Specialization
	CIVL400	Water Resources	3	Specialization		ENGE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	CIVL417	Structural Steel Design	3	Specialization		CIVL590	Carbon Engineering Design Project	3	Specialization
CIVL585	Design and Critical Thinking in Civil Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)	CIVL510	Special Topics in Structural Engineering	3	Major Elective		
CIVL540	Special Topics in Construction Management	3	Major Elective	CIVL520	Special Topics in Water Resources & Environmental Engineering	3	Major Elective		
Year 5 (Spring)	CIVL495	Industrial Training	15	Internship	Year 5 (Spring)	CIVL495	Industrial Training	15	Internship