

Bachelor of Science in Civil Engineering Model Study Plan (2022-2023 Cohort onwards)

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

Semester	Course Code	Course Title	Cr	Course type	Semester	Course Code	Course Title	Cr	Course type
Year 1 (Fall)	GBT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	2 (Spring)	PHYS105	General Physics I	3	College Requirement
	GSP107	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 3: English Communication)		PHYS135	General Physics Lab I	3	College Requirement
	MATH110/130	Calculus for Engineering	3	Gen Ed Course (Cluster 1: Area 3: Quantitative Reasoning)		STAT110	Probability and Statistics	3	College Requirement
	CHEM111	General Chemistry	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		RSBU211	Sustainability	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	CHM175	Chemistry Lab for Engineering	1	College Requirement		MATH122/220	Calculus for Engineering	3	College Requirement
ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)	GENG215	Engineering Ethics	3	College Requirement		
Year 2 (Fall)	CIVL240	Statics	3	Specialization	4 (Spring)	MECH305	Mechanics of Materials	3	Specialization
	CIVL220	Computer Aided Drawing (CIVL)	2	Specialization		CIVL310	Structural Analysis	3	Specialization
	CIVL770	Introduction to Environmental Engineering	2	Specialization		MATH210/270	Differential Equations for Engineering	3	College Requirement
	ENG220	Engineering Thermodynamics	3	College Requirement		ENG230	Computer Programming	3	College Requirement
	MATH220/245	Linear Algebra for Engineering	3	College Requirement		BIOL250	Basic Microbiology	3	Specialization
HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)						
Year 3 (Fall)	CHM2706/270	Materials Science	3	College Requirement	6 (Spring)	CIVL360	Concrete Technology	3	Specialization
	CIVL345	Fluid Mechanics for Civil and Architectural Engineering	3	Specialization		CIVL365	Reinforced Concrete Design I	3	Specialization
	CIVL335	Surveying	3	Specialization		CIVL330	Transportation Engineering	3	Specialization
	CIVL340	Soil Mechanics	3	Specialization		CIVL375	Water & Wastewater Technology	3	Specialization
	PHYS110	General Physics I	3	College Requirement		ENG315	Engineering Economics	3	College Requirement
PHYS140	General Physics Lab II	1	College Requirement	Elective	Student choice		Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)		
Year 4 (Fall)	CIVL400	Water Resources	3	Specialization	8 (Spring)	CIVL412	Reinforced Concrete Design II	3	Specialization
	CIVL433	Highway Engineering	3	Specialization		CIVL442	Foundation Engineering	3	Specialization
	CIVL443	Construction Management	3	Specialization		HEB222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	CIVL417	Structural Steel Design	3	Specialization		CIVL590	Capstone Engineering Design Project	3	Specialization
	CIVL385	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
CIVL440	Special Topics in Construction Management	3	Major Elective	CIVL520	Special Topics in Water Resources & Environmental Engineering	3	Major Elective		
Year 5 (Fall)	CIVL495	Industrial Training	15	Internship					

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

Semester	Course Code	Course Title	Cr	Course type	Semester	Course Code	Course Title	Cr	Course type
Year 1 (Spring)	GBT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	2 (Fall)	PHYS105	General Physics I	3	Collage Requirement
	GSP107	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 3: English Communication)		PHYS135	General Physics Lab I	1	Collage Requirement
	MATH110/130	Calculus for Engineering	3	Gen Ed Course (Cluster 1: Area 3: Quantitative Reasoning)		STAT110	Probability and Statistics	3	Collage Requirement
	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		RSBU211	Sustainability	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	CHM175	Chemistry Lab for Engineering	1	Collage Requirement		MATH120/135	Calculus I for Engineering	3	Collage Requirement
ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)	ENG215	Engineering Ethics	3	Collage Requirement		
Year 2 (Spring)	CIVL240	Statics	3	Specialization	4 (Fall)	MECH305	Mechanics of Materials	3	Specialization
	CIVL220	Computer Aided Drawing (CIVL)	2	Specialization		CIVL310	Structural Analysis	3	Specialization
	CIVL770	Introduction to Environmental Engineering	2	Specialization		MATH210/270	Differential Equations for Engineering	3	Collage Requirement
	ENG220	Engineering Thermodynamics	3	Collage Requirement		BIOL250	Basic Microbiology	3	Specialization
	MATH220/245	Linear Algebra for Engineering	3	Collage Requirement		CHM2706/270	Materials Science	3	Collage Requirement
HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)						
Year 3 (Spring)	CIVL360	Concrete Technology	3	Specialization	6 (Fall)	PHYS110	General Physics II	3	Collage Requirement
	CIVL345	Fluid Mechanics for Civil and Architectural Engineering	3	Specialization		CIVL140	General Physics Lab II	1	Collage Requirement
	CIVL335	Surveying	3	Specialization		CIVL330	Transportation Engineering	3	Specialization
	CIVL365	Reinforced Concrete Design I	3	Specialization		CIVL375	Water & Wastewater Technology	3	Specialization
	ENG315	Engineering Economics	3	Collage Requirement		CIVL340	Soil Mechanics	3	Specialization
Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	ENG230	Computer Programming	3	Collage Requirement		
Year 4 (Spring)	CIVL412	Reinforced Concrete Design II	3	Specialization	8 (Fall)	CIVL417	Structural Steel Design	3	Specialization
	CIVL443	Foundation Engineering	3	Specialization		CIVL433	Highway Engineering	3	Specialization
	CIVL440	Construction Management	3	Specialization		HEB222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	CIVL480	Water Resources	3	Specialization		CIVL590	Capstone Engineering Design Project	3	Specialization
	CIVL385	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
CIVL440	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					

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Total Degree Credit hours: 132

Semester	Course Code	Course Title	Cr	Course type	Semester	Course Code	Course Title	Cr	Course type				
Year 1	1 (Fall)	PHYS105 General Physics I GSP107 Introduction to Academic English For Engineering MATH130 Calculus for Engineering CHEM111 General Chemistry CHM175 Chemistry Lab for Engineering PHYS135 General Physics Lab I	3 3 3 3 1 1	College Requirement Gen Ed Course (Cluster 2: Area 3: English Communication) Gen Ed Course (Cluster 1: Area 3: Quantitative Reasoning) Gen Ed Course (Cluster 3: Area 1: Natural Sciences) College Requirement College Requirement	2 (Spring)	CIVL220 Computer Aided Drawing (CIVL) CIVL240 Statics STAT110 Probability and Statistics ENG215 Sustainability MATH135 Calculus I for Engineering CIVL270 Introduction to Environmental Engineering	2 3 3 3 3 3	Specialization Specialization College Requirement Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences) College Requirement Specialization					
	Year 2	3 (Fall)	ENG215 Engineering Ethics CHM270 Materials Science CIVL310 Structural Analysis BIOL250 Basic Microbiology MATH140 Linear Algebra I MECH305 Mechanics of Materials	2 3 3 3 3 3		College Requirement Specialization Specialization Specialization College Requirement Specialization	4 (Spring)	MATH275 Ordinary Differential Equations CIVL365 Reinforced Concrete Design I CIVL330 Computer Programing ENG315 Engineering Economics CIVL360 Concrete Technology CIVL330 Transportation Engineering	3 3 3 3 3 3	College Requirement Specialization College Requirement College Requirement College Requirement Specialization			
		Summer	CIVL485 Internship I	1		Internship							
		Year 3	5 (Fall)	GBT112 Fourth Industrial Revolution CIVL340 Soil Mechanics CIVL375 Fourth Industrial Revolution CIVL365 Fluid Mechanics for Civil and Architectural Engineering CIVL335 Surveying ISLM100 Biography of the Prophet "Sira"		3 3 3 3 3 3		Specialization Gen Ed Course (Cluster 1: Area 4: Fourth Industrial Revolution) Specialization Specialization Specialization Gen Ed Course (Cluster 2: Area 4: Islamic Culture)	6 (Spring)	HSS105 Emirates Studies CIVL400 Water Resources PHYS110 General Physics I PHYS140 General Physics Lab II Elective Student choice CIVL445 Construction Management	3 3 3 3 3 3	Specialization Gen Ed Course (Cluster 2: Area 3: Emirates Society) Specialization College Requirement College Requirement Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts) Specialization	
			Summer	CIVL490 Internship II		1		Internship					
			Year 4	7 (Fall)		CIVL585 Design and Critical Thinking in Civil Engineering CIVL417 Structural Steel Design CIVL433 Highway Engineering Elective Student choice Elective Student choice		3 3 3 3 3		Gen Ed Course (Cluster 1: Area 4: Critical Thinking) Specialization Specialization Major Elective Major Elective	8 (Spring)	CIVL412 Reinforced Concrete Design II CIVL442 Foundation Engineering HEB222 Fundamentals of Innovation and Entrepreneurship CIVL590 Capstone Engineering Design Project Elective Student choice	3 3 3 3 3

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For Students Admitted to the University from the Spring Semester
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	Semester	Course Code	Course Title	Cr	Course type	Semester	Course Code	Course Title	Cr	Course type
Year 1	1 (Spring)	PHYS105	General Physics I	3	College Requirement	2 (Fall)	CHM270	Materials Science	3	Specialization
		GSP107	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 3: English Communication)		MATH135	Calculus I for Engineering	3	College Requirement
		MATH130	Calculus for Engineering	3	Gen Ed Course (Cluster 1: Area 3: Quantitative Reasoning)		CIVL220	Computer Aided Drawing (CIVL)	2	Specialization
		CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		CIVL240	Statics	3	Specialization
		CHM175	Chemistry Lab for Engineering	1	College Requirement		CIVL270	Introduction to Environmental Engineering	3	Specialization
PHYS135	General Physics Lab I	1	College Requirement	ENG215	Engineering Ethics	2	College Requirement			
Year 2	3 (Spring)	MECH305	Mechanics of Materials	3	Specialization	4 (Fall)	MATH275	Ordinary Differential Equations	3	College Requirement
		MATH140	Linear Algebra	3	College Requirement		CIVL365	Reinforced Concrete Design I	3	Specialization
		CIVL310	Structural Analysis	3	Specialization		ENG230	Computer Programming	3	College Requirement
		BIOL250	Basic Microbiology	3	Specialization		GENS135	Engineering Economics	3	College Requirement
		STAT110	Probability and Statistics	3	College Requirement		CIVL335	Surveying	3	Specialization
CIVL360	Concrete Technology	3	Specialization	CIVL360	Transportation Engineering	3	Specialization			
Summer	CIVL485	Internship I	1	Internship						
Year 3	5 (Spring)	CIVL445	Fluid Mechanics for Civil and Architectural Engineering	3	Specialization	6 (Fall)	CIVL440	Soil Mechanics	3	Specialization
		CIVL375	Water & Wastewater Technology	3	Specialization		CIVL417	Structural Steel Design	3	Specialization
		GENS023	Sustainability	3	Gen Ed Course (Cluster 2: Area 3: Social and Behavioral Sciences)		HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirate Society)
		GENS130	General Physics II	3	College Requirement		ISLM101	Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
		PHYS140	General Physics Lab II	1	College Requirement		CIVL433	Highway Engineering	3	Specialization
Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	CIVL445	Construction Management	3	Specialization			
Year 4	7 (Spring)	CIVL412	Reinforced Concrete Design II	3	Specialization	8 (Fall)	CIVL590	Capstone Engineering Design Project	3	Specialization
		CIVL442	Foundation Engineering	3	Specialization		CIVL440	Water Resources	3	Specialization
		GENS185	Design and Critical Thinking in Civil Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)		GBT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
		Elective	Student choice	3	Major Elective		Elective	Student choice	3	Major Elective
		GBT222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)		Elective	Student choice	3	Major Elective
Summer	CIVL490	Internship II	1	Internship						

Bachelor of Science in Civil Engineering Model Study Plan (2025-2026 Cohort onwards)

For Students Admitted to the University from the Fall Semester
Total Degree Credit hours: 132

Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Fall)	PHYS105	General Physics I	3	College Requirement	2 (Spring)	CIVL220	Computer Aided Drawing (CIVL)	2	Specialization
	SESE101	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency		CIVL240	Statics	3	Specialization
	MATH130	Calculus for Engineering	3	College Requirement		CIVL270	Introduction to Environmental Engineering	3	Specialization
	CHEM112	General Chemistry I	3	Gen. Ed. Course Cluster 5: Area 1: Natural Sciences		STAT110	Probability and Statistics	3	College Requirement
	CHEM175	Chemistry Lab I for Engineering	1	College Requirement		MATH135	Calculus II for Engineering	3	College Requirement
Year 2 (Fall)	PHYS135	General Physics Lab I	1	College Requirement	4 (Spring)	CHEM270	Materials Science	3	Specialization
	GENG215	Engineering Ethics	2	College Requirement		MATH275	Ordinary Differential Equations	3	College Requirement
	CIVL290	Sustainable Engineering Principles	3	Specialization		CIVL365	Reinforced Concrete Design I	3	Specialization
	CIVL310	Structural Analysis	3	Gen. Ed. Theme 5: Sustainability		GENG310	Computer Programming	3	College Requirement
	CIVL305	Air Quality Engineering	3	Specialization		GENG315	Engineering Economics	3	College Requirement
Year 3 (Fall)	MATH140	Linear Algebra I	3	College Requirement	6 (Spring)	CIVL360	Concrete Technology	3	Specialization
	MECH305	Mechanics of Materials	3	Specialization		CIVL330	Transportation Engineering	3	Specialization
	CIVL340	Soil Mechanics	3	Specialization		STEM110	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity
	Elective	Student choice	3	Gen. Ed. Theme 3: Innovation		CIVL400	Water Resources	3	Specialization
	CIVL375	Water & Wastewater Technology	3	Specialization		PHYS110	General Physics II	3	College Requirement
Year 4 (Fall)	CIVL345	Fluid Mechanics for Civil and Architectural Engineering	3	Specialization	8 (Spring)	CIVL410	General Physics Lab II	1	College Requirement
	CIVL335	Surveying	3	Specialization		Elective	Student choice	3	Gen. Ed. Theme 7 or 8 or 9 or 10
	Elective	Student choice	3	Gen. Ed. Theme 7 or 8 or 9 or 10		CIVL445	Construction Management	3	Specialization
	Summer	CIVL485	Internship I	1	Internship				
Year 4 (Fall)	CIVL385	Design and Critical Thinking in Civil Engineering	3	Specialization	8 (Spring)	CIVL412	Reinforced Concrete Design II	3	Specialization
	CIVL417	Structural Steel Design	3	Specialization		GENE222	Fundamentals of Innovation and Entrepreneurship	3	Specialization
	CIVL433	Highway Engineering	3	Specialization		CIVL390	Capstone Engineering Design Project	3	Specialization
	Elective	Student choice	3	Major Elective		Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Major Elective					
Summer	CIVL490	Internship II	1	Internship					

Bachelor of Science in Civil Engineering Model Study Plan (2025-2026 Cohort onwards)

For Students Admitted to the University from the Spring Semester
Total Degree Credit hours: 132

Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Spring)	PHYS105	General Physics I	3	College Requirement	2 (Fall)	CHEM270	Materials Science	3	Specialization
	SESE101	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency		MATH135	Calculus II for Engineering	3	College Requirement
	MATH130	Calculus for Engineering	3	College Requirement		CIVL220	Computer Aided Drawing (CIVL)	2	Specialization
	CHEM112	General Chemistry I	3	Gen. Ed. Course Cluster 5: Area 1: Natural Sciences		CIVL240	Statics	3	Specialization
	CHEM175	Chemistry Lab I for Engineering	1	College Requirement		CIVL270	Introduction to Environmental Engineering	3	Specialization
Year 2 (Spring)	PHYS135	General Physics Lab I	1	College Requirement	4 (Fall)	GENG215	Engineering Ethics	2	College Requirement
	MECH305	Mechanics of Materials	3	Specialization		MATH275	Ordinary Differential Equations	3	College Requirement
	MATH140	Linear Algebra I	3	College Requirement		CIVL365	Reinforced Concrete Design I	3	Specialization
	CIVL310	Structural Analysis	3	Specialization		GENG310	Computer Programming	3	College Requirement
	CIVL360	Concrete Technology	3	Specialization		GENG315	Engineering Economics	3	College Requirement
Year 3 (Spring)	STAT110	Probability and Statistics	3	College Requirement	6 (Fall)	CIVL330	Transportation Engineering	3	Specialization
	CIVL345	Fluid Mechanics for Civil and Architectural Engineering	3	Specialization		CIVL340	Soil Mechanics	3	Specialization
	CIVL375	Water & Wastewater Technology	3	Specialization		CIVL417	Structural Steel Design	3	Specialization
	CIVL290	Sustainable Engineering Principles	3	Gen. Ed. Theme 5: Sustainability		STEM110	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity
	PHYS110	General Physics II	3	College Requirement		Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10
Year 4 (Spring)	PHYS140	General Physics Lab II	1	College Requirement	8 (Fall)	CIVL333	Highway Engineering	3	Specialization
	Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10		CIVL445	Construction Management	3	Specialization
	Summer	CIVL485	Internship I	1	Internship				
Year 4 (Spring)	CIVL412	Reinforced Concrete Design II	3	Specialization	8 (Fall)	CIVL390	Capstone Engineering Design Project	3	Specialization
	CIVL442	Foundation Engineering	3	Specialization		CIVL400	Water Resources	3	Specialization
	CIVL385	Design and Critical Thinking in Civil Engineering	3	Specialization		Elective	Student choice	3	Gen. Ed. Theme 3: Innovation
	Elective	Student choice	3	Major Elective		Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Major Elective		Elective	Student choice	3	Major Elective
Summer	CIVL490	Internship II	1	Internship					