

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

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

Semester	Course Code	Course Title	CrH	Course type	Semester	Course Code	Course Title	CrH	Course type
Year 1 (Fall)	ESPE207	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 2: English Communication)	Year 1 (Spring)	GESU21	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	MATH1107/30	Calculus For Engineering	3	Gen Ed Course (Cluster 3: Area 5: Quantitative Reasoning)		GESU22	Calculus For Engineering	3	College Requirement
	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		STAT120	Probability and Statistics	3	College Requirement
	CHEM175	Chemistry Lab For Engineering	1	College Requirement		GENE203	Engineering Thermodynamics	3	College Requirement
	PHYS105	General Physics I	3	College Requirement		CIVL240	Statics	3	Specialization
Year 2 (Fall)	ARCH313	Analysis and Design Principles for Building Structures	3	Specialization	Year 2 (Spring)	ARCH230	Introductory Building Design Studio	3	Specialization
	CIVL316	Building Construction Systems	3	Specialization		ARCH235	Building Construction Methods and Equipment	3	Specialization
	MECH305	Mechanics of Materials	3	Specialization		MATH210/270	Differential Equations for Engineering	3	College Requirement
	MATH222/145	Linear Algebra for Engineering	3	College Requirement		PHYS130	General Physics	3	College Requirement
	ENGG215	Engineering Ethics	2	College Requirement		PHYS140	General Physics Lab II	1	College Requirement
Year 3 (Fall)	CIVL358	Surveying for Architectural Engineering	2	Specialization	Year 3 (Spring)	CIVL345	Fluid Mechanics For Civil and Architectural Engineering	3	Specialization
	ARCH425	Advanced Building Construction Systems	3	Specialization		GENE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	ENGG315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)		ARCH430	Integrated Building Design Studio	3	Specialization
	ARCH386	History and Theories of Contemporary Architecture	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)		GENE313	Environmental Systems & Control	3	Specialization
	ARCH344	Building Electrical Circuits	3	Specialization		ARCH435	Building Engineering Systems	3	Specialization
Year 4 (Fall)	ARCH433	Environmental Systems & Control	3	Specialization	Year 4 (Spring)	ARCH422	Structural Design for Buildings	3	Specialization
	ARCH335	Intermediate Building Design Studio	3	Specialization		ARCH440	Construction Project Management	3	Specialization
	ARCH485	Professional Practical Training	15	Internship		ISLM400/MLM101	Islamic Culture/Geography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Cultural)
						ENGG350	Student choice	3	Math/Sci Elective
						ARCH450	Construction Project Planning and Control	3	Specialization
Year 5 (Fall)	PHIS505	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)	Year 5 (Spring)	ARCH455	Design and Critical Thinking in Architectural Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	Elective	Student choice	3	Major Elective		ENGG355	Student choice	3	Major Elective
	ARCH500	Capstone Engineering Design Project	3	Specialization					
	Elective	Student choice	3	Major Elective					
	Elective	Student choice	3	Major Elective					

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

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

Semester	Course Code	Course Title	CrH	Course type	Semester	Course Code	Course Title	CrH	Course type
Year 1 (Spring)	ESPE207	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 2: English Communication)	Year 1 (Fall)	GESU21	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	MATH1107/30	Calculus For Engineering	3	Gen Ed Course (Cluster 3: Area 5: Quantitative Reasoning)		MATH120/135	Calculus For Engineering	3	College Requirement
	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		STAT120	Probability and Statistics	3	College Requirement
	CHEM175	Chemistry Lab For Engineering	1	College Requirement		GENE203	Engineering Thermodynamics	3	College Requirement
	PHYS105	General Physics I	3	College Requirement		CIVL240	Statics	3	Specialization
Year 2 (Spring)	ARCH302	Introduction to Architectural Engineering	3	Specialization	Year 2 (Fall)	MATH210/270	Differential Equations for Engineering	3	College Requirement
	CIVL316	Building Construction Systems	3	Specialization		ARCH230	Introductory Building Design Studio	3	Specialization
	MECH305	Mechanics of Materials	3	Specialization		ARCH313	Analysis and Design Principles for Building Structures	3	Specialization
	MATH222/145	Linear Algebra for Engineering	3	College Requirement		ARCH344	Building Electrical Circuits	3	Specialization
	CIVL358	Surveying for Architectural Engineering	2	Specialization		CIVL345	Fluid Mechanics For Civil and Architectural Engineering	3	Specialization
Year 3 (Spring)	PHYS140	General Physics Lab II	1	College Requirement	Year 3 (Fall)	ARCH430	Integrated Building Design Studio	3	Specialization
	ARCH425	Advanced Building Construction Systems	3	Specialization		ARCH433	Environmental Systems & Control	3	Specialization
	ENGG315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)		ARCH435	Building Engineering Systems	3	Specialization
	ARCH386	History and Theories of Contemporary Architecture	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)		GENE313	Environmental Systems & Control	3	Specialization
	ARCH440	Construction Project Management	3	Specialization		GENE315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
Year 4 (Spring)	ARCH433	Environmental Systems & Control	3	Specialization	Year 4 (Fall)	GENE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	ARCH335	Intermediate Building Design Studio	3	Specialization		Elective	Student choice	3	Math/Sci Elective
	ARCH485	Professional Practical Training	15	Internship		ARCH450	Construction Project Planning and Control	3	Specialization
						ARCH455	Design and Critical Thinking in Architectural Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
						ENGG355	Student choice	3	Major Elective
Year 5 (Spring)	ARCH500	Capstone Engineering Design Project	3	Specialization	Year 5 (Fall)	PHIS505	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	ISLM400/MLM101	Islamic Culture/Geography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Cultural)		Elective	Student choice	3	Math/Sci Elective
	Elective	Student choice	3	Major Elective		ARCH450	Construction Project Planning and Control	3	Specialization
	Elective	Student choice	3	Major Elective		ARCH455	Design and Critical Thinking in Architectural Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	Elective	Student choice	3	Major Elective		ENGG355	Student choice	3	Major Elective

**Bachelor of Science in Architectural Engineering Model Study Plan (2023-2024 Cohort onwards)**

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

Semester	Course Code	Course Title	CrH	Course type	Semester	Course Code	Course Title	CrH	Course type
Year 1 (Fall)	ESPE207	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 2: English Communication)	Year 1 (Spring)	GESU21	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	MATH1107/30	Calculus For Engineering	3	Gen Ed Course (Cluster 3: Area 5: Quantitative Reasoning)		MATH120/135	Calculus For Engineering	3	College Requirement
	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		GENE203	Engineering Thermodynamics	3	College Requirement
	CHEM175	Chemistry Lab For Engineering	1	College Requirement		CIVL240	Statics	3	Specialization
	PHYS105	General Physics I	3	College Requirement		STAT120	Probability and Statistics	3	College Requirement
Year 2 (Fall)	ARCH302	Introduction to Architectural Engineering	3	Specialization	Year 2 (Spring)	ARCH230	Introductory Building Design Studio	3	Specialization
	CIVL316	Building Construction Systems	3	Specialization		ARCH235	Building Construction Methods and Equipment	3	Specialization
	MECH305	Mechanics of Materials	3	Specialization		MATH275	Ordinary Differential Equations	3	College Requirement
	MATH222/145	Linear Algebra for Engineering	3	College Requirement		PHYS140	General Physics Lab II	1	College Requirement
	CIVL358	Surveying for Architectural Engineering	2	Specialization		PHYS140	General Physics Lab II	1	College Requirement
Year 3 (Fall)	PHYS140	General Physics Lab II	1	College Requirement	Year 3 (Spring)	CIVL345	Fluid Mechanics For Civil and Architectural Engineering	3	Specialization
	ARCH425	Advanced Building Construction Systems	3	Specialization		ARCH430	Integrated Building Design Studio	3	Specialization
	ENGG315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)		GENE313	Environmental Systems & Control	3	Specialization
	ARCH386	History and Theories of Contemporary Architecture	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)		ARCH435	Building Engineering Systems	3	Specialization
	ARCH440	Construction Project Management	3	Specialization		GENE315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
Year 4 (Fall)	ARCH433	Environmental Systems & Control	3	Specialization	Year 4 (Spring)	GENE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	ARCH335	Intermediate Building Design Studio	3	Specialization		ENGG350	Student choice	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	ARCH485	Professional Practical Training	15	Internship		ENGG355	Student choice	3	Math/Sci Elective
						ARCH450	Construction Project Planning and Control	3	Specialization
						ARCH455	Design and Critical Thinking in Architectural Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
Year 5 (Fall)	ISLM400	Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Cultural)	Year 5 (Spring)	PHIS505	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	Elective	Student choice	3	Math/Sci Elective		Elective	Student choice	3	Math/Sci Elective
	ARCH500	Capstone Engineering Design Project	3	Specialization		ARCH450	Construction Project Planning and Control	3	Specialization
	Elective	Student choice	3	Major Elective		ARCH455	Design and Critical Thinking in Architectural Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	Elective	Student choice	3	Major Elective		ENGG355	Student choice	3	Major Elective

**Bachelor of Science in Architectural Engineering Model Study Plan (2023-2024 Cohort onwards)**

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

Semester	Course Code	Course Title	CrH	Course type	Semester	Course Code	Course Title	CrH	Course type
Year 1 (Spring)	ESPE207	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 2: English Communication)	Year 1 (Fall)	GESU21	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	MATH1107/30	Calculus For Engineering	3	Gen Ed Course (Cluster 3: Area 5: Quantitative Reasoning)		MATH120/135	Calculus For Engineering	3	College Requirement
	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		GENE203	Engineering Thermodynamics	3	College Requirement
	CHEM175	Chemistry Lab For Engineering	1	College Requirement		CIVL240	Statics	3	Specialization
	PHYS105	General Physics I	3	College Requirement		STAT120	Probability and Statistics	3	College Requirement
Year 2 (Spring)	ARCH302	Introduction to Architectural Engineering	3	Specialization	Year 2 (Fall)	MATH275	Ordinary Differential Equations	3	College Requirement
	CIVL316	Building Construction Systems	3	Specialization		ARCH230	Introductory Building Design Studio	3	Specialization
	MECH305	Mechanics of Materials	3	Specialization		ARCH235	Building Construction Methods and Equipment	3	Specialization
	MATH222/145	Linear Algebra for Engineering	3	College Requirement		ARCH313	Analysis and Design Principles for Building Structures	3	Specialization
	CIVL358	Surveying for Architectural Engineering	2	Specialization		ARCH344	Building Electrical Circuits	3	Specialization
Year 3 (Spring)	PHYS140	General Physics Lab II	1	College Requirement	Year 3 (Fall)	ARCH430	Integrated Building Design Studio	3	Specialization
	ARCH425	Advanced Building Construction Systems	3	Specialization		ARCH433	Environmental Systems & Control	3	Specialization
	ENGG315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)		ARCH435	Building Engineering Systems	3	Specialization
	ARCH386	History and Theories of Contemporary Architecture	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)		GENE313	Environmental Systems & Control	3	Specialization
	ARCH440	Construction Project Management	3	Specialization		GENE315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
Year 4 (Spring)	ARCH433	Environmental Systems & Control	3	Specialization	Year 4 (Fall)	GENE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	ARCH335	Intermediate Building Design Studio	3	Specialization		ENGG350	Student choice	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	ARCH485	Professional Practical Training	15	Internship		ENGG355	Student choice	3	Math/Sci Elective
						ARCH450	Construction Project Planning and Control	3	Specialization
						ARCH455	Design and Critical Thinking in Architectural Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
Year 5 (Spring)	ISLM400	Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Cultural)	Year 5 (Fall)	PHIS505	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	Elective	Student choice	3	Math/Sci Elective		Elective	Student choice	3	Math/Sci Elective
	ARCH500	Capstone Engineering Design Project	3	Specialization		ARCH450	Construction Project Planning and Control	3	Specialization
	Elective	Student choice	3	Major Elective		ARCH455	Design and Critical Thinking in Architectural Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	Elective	Student choice	3	Major Elective		ENGG355	Student choice	3	Major Elective
Summer	ARCH490	Internship II	1	Internship	Summer	ARCH490	Internship II	1	Internship

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

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

Semester	Course Code	Course Title	Cr	Course Type	Semester	Course Code	Course Title	Cr	Course Type
Year 1 (Fall)	ESSE01	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency	Year 1 (Spring)	ARCH15	Building Construction Systems	3	Specialization
	MATH139	Calculus for Engineering	3	College Requirement		CHM111	General Chemistry I	3	College Requirement
	ARCH101	Introduction to Architectural Engineering	3	Specialization		CHM125	Chemistry Lab I for Engineering	3	Specialization
	STAT110	Probability and Statistics	3	College Requirement		MATH155	Calculus II for Engineering	3	College Requirement
	PHYS105	General Physics I	3	College Requirement		CIVL340	Statics	3	Specialization
PHYS133	General Physics Lab I	1	College Requirement	Elective	Student choice	3	Gen. Ed. Theme 3: Innovation		
Year 2 (Fall)	ARCH133	Analysis and Design Principles for Building Structures	3	Specialization	Year 2 (Spring)	ARCH20	Introductory Building Design Studio	3	Specialization
	ARCH136	Building Construction Methods and Equipment	3	Specialization		ARCH136	Building Construction Methods and Equipment	3	Specialization
	ARCH195	Mechanics of Materials	3	Specialization		CIVL358	Surveying for Architectural Engineering	3	Specialization
	MATH140	Linear Algebra I	3	College Requirement		MATH275	Ordinary Differential Equations	3	College Requirement
	ARCH186	History and Theories of Contemporary Architecture	3	Specialization		PHYS140	General Physics Lab II	1	College Requirement
Summer	ARCH485	Internship I	3	Internship	CIVL345	Fluid Mechanics for Civil and Architectural Engineering	3	Specialization	
Year 3 (Fall)	ARCH335	Intermediate Building Design Studio	3	Specialization	Year 3 (Spring)	ARCH30	Integrated Building Design Studio	3	Specialization
	ARCH415	Advanced Building Construction Systems	3	Specialization		ARCH30	Integrated Building Design Studio	3	Specialization
	ARCH415	Advanced Building Construction Systems	3	Specialization		ARCH30	Integrated Building Design Studio	3	Specialization
	ARCH414	Building Engineering Systems	3	Specialization		ARCH22	Structural Design for Buildings	3	Specialization
	ARCH414	Building Engineering Systems	3	Specialization		ARCH43	Environmental Systems & Control	3	Specialization
Summer	ARCH490	Internship II	3	Internship	Elective	Student choice	3	Gen. Ed. Theme 7 or 8 or 9 or 10	
Year 4 (Fall)	GENE215	Engineering Economics	3	College Requirement	Year 4 (Spring)	ARCH585	Design and Critical Thinking in Architectural Engineering	3	Specialization
	ARCH440	Construction Project Management	3	Specialization		ARCH490	Capstone Project Planning and Control	3	Specialization
	Elective	Student choice	3	Specialization Elective		Elective	Student choice	3	Math/Sci Elective
	GENE215	Engineering Ethics	3	College Requirement		GE222	Fundamentals of Innovation and Entrepreneurship	3	Gen. Ed. Theme 4: Entrepreneurship
	Elective	Student choice	3	Specialization Elective					
Year 5 (Fall)	ARCH590	Capstone Engineering Design Project	3	Specialization					
	Elective	Student choice	3	Specialization Elective					
	Elective	Student choice	3	Specialization Elective					
	GENE10	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity					

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

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

Semester	Course Code	Course Title	Cr	Course Type	Semester	Course Code	Course Title	Cr	Course Type
Year 1 (Spring)	ESSE01	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency	Year 1 (Fall)	Elective	Student choice	3	Gen. Ed. Theme 5: Sustainability
	MATH139	Calculus for Engineering	3	College Requirement		MATH155	Calculus II for Engineering	3	College Requirement
	PHYS105	General Physics I	3	College Requirement		CHM111	General Chemistry I	3	College Requirement
	PHYS133	General Physics Lab I	1	College Requirement		CHM125	Chemistry Lab I for Engineering	3	College Requirement
	STAT110	Probability and Statistics	3	College Requirement		ARCH101	Introduction to Architectural Engineering	3	Specialization
Year 2 (Spring)	ARCH101	Introduction to Architectural Engineering	3	Specialization	Year 2 (Fall)	ARCH20	Introductory Building Design Studio	3	Specialization
	ARCH136	Building Construction Methods and Equipment	3	Specialization		ARCH136	Building Construction Methods and Equipment	3	Specialization
	ARCH195	Mechanics of Materials	3	Specialization		MATH275	Ordinary Differential Equations	3	College Requirement
	MATH140	Linear Algebra I	3	College Requirement		PHYS110	General Physics II	3	College Requirement
	ARCH186	History and Theories of Contemporary Architecture	3	Specialization		PHYS140	General Physics Lab II	1	College Requirement
Year 3 (Spring)	ARCH335	Intermediate Building Design Studio	3	Specialization	Year 3 (Fall)	ARCH30	Integrated Building Design Studio	3	Specialization
	ARCH415	Advanced Building Construction Systems	3	Specialization		GENE215	Engineering Ethics	3	College Requirement
	ARCH415	Advanced Building Construction Systems	3	Specialization		GENE215	Engineering Economics	3	College Requirement
	ARCH414	Building Engineering Systems	3	Specialization		ARCH43	Environmental Systems & Control	3	Specialization
	ARCH414	Building Engineering Systems	3	Specialization		Elective	Student choice	3	Gen. Ed. Theme 7 or 8 or 9 or 10
Summer	ARCH490	Internship I	3	Internship					
Year 4 (Spring)	ARCH422	Structural Design for Buildings	3	Specialization	Year 4 (Fall)	ARCH590	Capstone Engineering Design Project	3	Specialization
	ARCH440	Construction Project Management	3	Specialization		Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Major Elective		Elective	Student choice	3	Major Elective
	GENE215	Engineering Ethics	3	College Requirement		GENE10	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity
	ARCH442	Building, Acoustics and Illumination	3	Specialization					
Summer	ARCH490	Internship II	3	Internship					
Year 5 (Spring)	ARCH585	Design and Critical Thinking in Architectural Engineering	3	Specialization					
	ARCH590	Capstone Engineering Design Project	3	Specialization					
	Elective	Student choice	3	Specialization Elective					