



## 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	СН	Course type	Semester	Course Code	Course Title	CH	Course type
		ESPU107	Introduction to Academic English For Engineering		Gen Ed Course (Cluster 1: Area 2: English Communication)		GESU121			Gen Ed Course (Cluster 3: Area 2: Sustainability)
	4		Calculus I for Engineering		Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)	2	MATH1120/135			College Requirement
7	1	CHEM111	General Chemistry I		Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		GENG215			College Requirement
ro.		CHEM175	Chemistry Lab I for Engineering		College Requirement		STAT210			College Requirement
×	(Fall)	PHYS105	General Physics I		College Requirement	(Spring)	GENG220			College Requirement
	(i aii)	PHYS135	General Physics Lab I	1	College Requirement	(Shiiig)	CIVL240	Statics	3	Specialization
				14					17	
		ARCH313	Analysis and Design Principles for Building Structures		Specialization		ARCH320			Specialization
2	3	ARCH302	Introduction to Architectural Engineering		Specialization	4	ARCH326			Specialization
Ħ	9	ARCH316	Building Construction Systems		Specialization		MATH2210/270			College Requirement
ĕ	/E III	MECH305	Mechanics of Materials		Specialization	/c · \	PHYS110			College Requirement
>	(Fall)	MATH2220/145	Linear Algebra for Engineering		College Requirement	(Spring)	PHYS140			College Requirement
	, ,	GENG215	Engineering Ethics	2	College Requirement	٠, ٥,	CIVL345			Specialization
		CIVL358	Surveying for Architectural Engineering	2	Specialization		GEIE222	Fundamentals of Innovation and Entrepreneurship		Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
				17					16	
	5	ARCH425	Advanced Building Construction Systems	3	Specialization		ARCH430	Integrated Building Design Studio	3	Specialization
m		GENG315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)	6	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
Ε.		ARCH366	History and Theories of Contemporary Architecture	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	U	ARCH342	Building Acoustics and Illumination	3	Specialization
e	/E III	ARCH341	Building Electrical Circuits		Specialization	(Spring)	ARCH345			Specialization
>	(Fall)	ARCH433	Environmental Systems & Control		Specialization		ARCH422			Specialization
	,	ARCH335	Intermediate Building Design Studio		Specialization	(-)	ARCH440	Construction Project Management		Specialization
				17					18	
	-	ARCH495	Professional Practical Training	15	Internship	•	ISLM100/ISLM101			Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
4	/					8	Elective	Student choice	3	Math/Sci Elective
₩.						_	ARCH450	Construction Project Planning and Control	3	Specialization
æ	(Fall)					(Spring)	ARCH585			Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
1	(i aii)					(Shiiig)	Elective	Student choice	3	Major Elective
				15					15	
	_	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)				_	
'n	9	Elective	Student choice	3	Math/Sci Elective					
ā	-	ARCH590	Capstone Engineering Design Project	3	Specialization					
æ	(Fall)	Elective	Student choice	3	Major Elective					
	(Fall)	Elective	Student choice	3	Major Elective					
				15						

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	СН	Course type	Semester	Course Code	Course Title	СН	Course type
	Semester					Semester				
		ESPU107	Introduction to Academic English For Engineering		Gen Ed Course (Cluster 1: Area 2: English Communication)		GESU121	Sustainability		Gen Ed Course (Cluster 3: Area 2: Sustainability)
_	1		Calculus I for Engineering		Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)	2	MATH1120/135			College Requirement
		CHEM111	General Chemistry I		Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		GENG215	Engineering Ethics		College Requirement
æ			Chemistry Lab I for Engineering		College Requirement		STAT210	Probability and Statistics		College Requirement
×	(Spring)	PHYS105	General Physics I		College Requirement	(Fall)	GENG220	Engineering Thermodynamics		College Requirement
	(26, 11,8)	PHYS135	General Physics Lab I	1	College Requirement	(1 411)	CIVL240	Statics	3	Specialization
				14					17	
		ARCH302	Introduction to Architectural Engineering	3	Specialization		MATH2210/270	Differential Equations for Engineering	3	College Requirement
	2	ARCH316	Building Construction Systems		Specialization	4	ARCH320	Introductory Building Design Studio		Specialization
	3		Mechanics of Materials		Specialization	4	ARCH326			Specialization
æ		MATH2220/145	Linear Algebra for Engineering	3	College Requirement		ARCH313			Specialization
æ	(Spring)		Surveying for Architectural Engineering		Specialization	(Fall)	ARCH341			Specialization
	(Shi iiig)	PHYS110	General Physics II	3	College Requirement	(i aii)	CIVL345	Fluid Mechanics for Civil and Architectural Engineering	3	Specialization
		PHYS140	General Physics Lab II	1	College Requirement					
				18					17	
		ARCH425	Advanced Building Construction Systems	3	Specialization		ARCH430	Integrated Building Design Studio	3	Specialization
m	5	ARCH342	Building Acoustics and Illumination		Specialization	6	ARCH433			Specialization
	5	ARCH422	Structural Design for Buildings	3	Specialization		ARCH345	Building Engineering Systems	3	Specialization
ear		ARCH440	Construction Project Management	3	Specialization		GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
≻	(Spring)	ARCH335	Intermediate Building Design Studio	3	Specialization	(Fall)	GENG315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	(	ARCH366	History and Theories of Contemporary Architecture	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	()	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
				18					18	
		ARCH495	Professional Practical Training	15	Internship	•	Elective	Student choice	3	Math/Sci Elective
4	/					8	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
ᡖ						-	ARCH450	Construction Project Planning and Control	3	Specialization
Year 4	(Caring)					(Fall)	ARCH585	Design and Critical Thinking in Architectural Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	(Spring)					(Fall)	Elective	Student choice	3	Major Elective
				15					15	
	•	ARCHS90	Capstone Engineering Design Project	3	Specialization					
5	9	SLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)					
ㅎ			Student choice	3	Math/Sci Elective					
ě	(Caring)	Elective	Student choice	3	Major Elective					
	(Spring)	Elective	Student choice	3	Major Elective					
				15						
				_						

# 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	CH		Semester	Course Code	Course Title	CH	
		ESPU107	Introduction to Academic English For Engineering		Gen Ed Course (Cluster 1: Area 2: English Communication)		GESU121			Gen Ed Course (Cluster 3: Area 2: Sustainability)
ar 1		MATH130	Calculus I for Engineering	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)		MATH1120/135	Calculus II for Engineering		College Requirement
	1	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)	2	CIVL358	Surveying for Architectural Engineering		Specialization
		CHEM175	Chemistry Lab I for Engineering		College Requirement		GENG215			College Requirement
æ	(Fall)	PHYS105	General Physics I		College Requirement	(Spring)	ARCH302			Specialization
•	(i aii)	PHYS135	General Physics Lab I	1	College Requirement	(Shi iiig)	CIVL240			Specialization
							STAT210	Probability and Statistics	3	College Requirement
				14					19	
		ARCH313	Analysis and Design Principles for Building Structures	3	Specialization		ARCH320			Specialization
2	2	ARCH316	Building Construction Systems	3	Specialization	4	ARCH326	Building Construction Methods and Equipment	3	Specialization
ч		MECH305	Mechanics of Materials	3	Specialization	-	MATH275	Ordinary Differential Equations	3	College Requirement
eg	/E III	MATH140	Linear Algebra I	3	College Requirement	/c · \	PHYS110	General Physics II		College Requirement
×	(Fall)	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	(Spring)	PHYS140	General Physics Lab II	1	College Requirement
	,					(-1- 0)	CIVL345	Fluid Mechanics for Civil and Architectural Engineering	3	Specialization
				15					16	
	Summer	ARCH485	Intrenship I	1	Internship					
				1						
		ARCH425	Advanced Building Construction Systems	3	Specialization	6	ARCH430	Integrated Building Design Studio	3	Specialization
3	5	GENG315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)		GEIT112			Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
н	,	ARCH366	History and Theories of Contemporary Architecture	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)		ARCH342	Building Acoustics and Illumination		Specialization
69	/E III	ARCH341	Smart Building Electrical System	3	Specialization		ARCH345	Building Engineering Systems		Specialization
χ.	(Fall)	ARCH433	Environmental Systems & Control	3	Specialization	(Spring)	ARCH422			Specialization
	,	ARCH335	Intermediate Building Design Studio	3	Specialization	(-)	ARCH440	Construction Project Management	3	Specialization
				18					18	
	Summer	ARCH490	Intrenship II	1	Internship					
				1						
		ISLM101	Biography of the Prophet "Sira"		Gen Ed Course (Cluster 2: Area 4: Islamic Culture)		HSS105	Emirates Studies		Gen Ed Course (Cluster 2: Area 3: Emirates Society)
4	7					8				
'n	,	Elective	Student choice		Math/Sci Elective	,	Elective			Math/Sci Elective
e	/E-II\	ARCH585	Design and Critical Thinking in Architectural Engineering		Gen Ed Course (Cluster 1: Area 4: Critical Thinking)	/C:\	Elective			Specialization Elective
¥	(Fall)	ARCH450	Construction Project Planning and Control		Specialization	(Spring)	ARCH590			Specialization
	,	Elective	Student choice	- 3	Specialization Elective		Elective	Student choice	3	Specialization 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	н	Course type	Semester	Course Code	Course Title	CH	Course type
		ESPU107	Introduction to Academic English For Engineering		Gen Ed Course (Cluster 1: Area 2: English Communication)		GESU121			Gen Ed Course (Cluster 3: Area 2: Sustainability)
		MATH130	Calculus I for Engineering		Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)	2	MATH135			College Requirement
7	1	CHEM111	General Chemistry I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)	2	STAT210	Probability and Statistics		College Requirement
ē		CHEM175	Chemistry Lab I for Engineering	1	College Requirement		CIVL240	Statics	3	Specialization
ţ.	(Spring)	PHYS105	General Physics I	3	College Requirement	(Fall)	GENG215	Engineering Ethics	2	College Requirement
1	(Spring)	PHYS135	General Physics Lab I	1	College Requirement	(i aii)				
				14					14	
		ARCH302	Introduction to Architectural Engineering	3	Specialization		MATH275	Ordinary Differential Equations	3	College Requirement
		ARCH316	Building Construction Systems	3	Specialization		ARCH320	Introductory Building Design Studio	3	Specialization
2	3	MECH305	Mechanics of Materials	3	Specialization	4	ARCH326	Building Construction Methods and Equipment	3	Specialization
늄	-	MATH140	Linear Algebra I	3	College Requirement	-	ARCH313	Analysis and Design Principles for Building Structures	3	Specialization
ě	(Caring)	CIVL358	Surveying for Architectural Engineering	2	Specialization	(Fall)	ARCH341	Smart Building Electrical System	3	Specialization
	(Spring)	PHYS110	General Physics II	3	College Requirement	(Fall)	CIVL345	Fluid Mechanics for Civil and Architectural Engineering	3	Specialization
		PHYS140	General Physics Lab II	1	College Requirement		GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
				18					21	
	Summer	ARCH485	Intrenship I	1	Internship				Т	
				1						
		ARCH425	Advanced Building Construction Systems	3	Specialization		ARCH430	Integrated Building Design Studio		Specialization
33	5	ARCH342	Building Acoustics and Illumination	3	Specialization	6	ARCH433	Environmental Systems & Control		Specialization
ar	,	ARCH422	Structural Design for Buildings	3	Specialization	O	ARCH345	Building Engineering Systems	3	Specialization
a		ARCH440	Construction Project Management	3	Specialization	·- ···	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
¥	(Spring)	ARCH335	Intermediate Building Design Studio	3	Specialization	(Fall)	GENG315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	(	ARCH366	History and Theories of Contemporary Architecture	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	( /				
				18					15	
		elective	Student choice	3	Math/Sci Elective		ARCH590	Capstone Engineering Design Project	3	Specialization
4	7	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)	8	ISLM101	Biography of the Prophet "Sira"	0	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
ear	•	ARCH450	Construction Project Planning and Control	3	Specialization	~	Elective	Student choice	3	Math/Sci Elective
ţ.	(Caring)	ARCH585	Design and Critical Thinking in Architectural Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)	(Eall)	Elective	Student choice	3	Major Elective
	(Spring)	Elective	Student choice	3	Major Elective	(Fall)	Elective	Student choice	3	Major Elective
				15					12	
	Cummor				laterach's				_	
	Summer	ARCH490	Intrenship II	1	Internship					
				1						





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	СН		Semester	Course Code	Course Title	СН	
		GEAE101	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency		ARCH316	Building Construction Systems		Specialization
	4	MATH130	Calculus I for Engineering	3	College Requirement	2	CHEM111	General Chemistry I		College Requirement
7	1	ARCH302	Introduction to Architectural Engineering	3	Specialization	2	CHEM175	Chemistry Lab I for Engineering		Specialization
ro.			Probability and Statistics		College Requirement		MATH135			College Requirement
×	(Fall)		General Physics I		College Requirement	(Spring)	CIVL240			Specialization
	(1 411)	PHYS135	General Physics Lab I	1	College Requirement	(Shiiilg)	Elective	Student choice	3	Gen. Ed. Theme 3: Innovation
										1
				16					16	
		ARCH313	Analysis and Design Principles for Building Structures	3	Specialization		ARCH320	Introductory Building Design Studio	3	Specialization
2	3		Building Construction Systems	3	Specialization	4	ARCH326	Building Construction Methods and Equipment		Specialization
Ħ	3		Mechanics of Materials	3	Specialization	_	CIVL358	Surveying for Architectural Engineering		Specialization
ě	/E III	MATH140	Linear Algebra I	3	College Requirement	/c · \	MATH275			College Requirement
>	(Fall)	ARCH366	History and Theories of Contemporary Architecture	3	Specialization	(Spring)	PHYS140	General Physics Lab II		College Requirement
	,						CIVL345	Fluid Mechanics for Civil and Architectural Engineering		Specialization
				15					15	
	Summer	ARCH485	Intrenship I	1	Internship					
				1			1	1		1
		ARCH335	Intermediate Building Design Studio	3	Specialization		ARCH430	Integrated Building Design Studio	3	Specialization
3	5		Advanced Building Construction Systems	3	Specialization	6	ARCH342			Specialization
-E	-		Building Engineering Systems	3	Specialization	Ŭ	ARCH422	Structural Design for Buildings		Specialization
ق	(Fall)	ARCH341	Smart Building Electrical System	3	Specialization	(Caring)	ARCH433	Environmental Systems & Control		Specialization
	(raii)		Student choice	3	Gen. Ed. Theme 7 or 8 or 9 or 10	(Spring)	Elective	Student choice	3	Gen. Ed. Theme 7 or 8 or 9 or 10
	•			15				1	15	
	Summer	ARCH490			Laborate la la laborate la					
	ounner	AKCH490	Intrenship II	1	Internship		1			
				1						
	7		Engineering Economics	3	College Requirement	0	ARCH585			Specialization
1	/		Construction Project Management	3	Specialization	8	ARCH450			Specialization
ro.			Student choice	3	Gen. Ed. Theme 5: Sustainability		Elective	Student choice		Math/Sci Elective
×	(Fall)		Student choice	3	Specialization Elective	(Spring)	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen. Ed. Theme 4: Entrepreneurship
	(1 411)	GENG215	Engineering Ethics		College Requirement	(2611118)				
				14					12	
LO.	9	ARCH590	Capstone Engineering Design Project		Specialization					-
Ε.	9		Student choice		Specialization Elective					
ä	/= III	Elective	Student choice	3	Specialization Elective					
Ye	(Fall)	GEEM110	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity					
				12						

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	CH	Course type	Semester	Course Code	Course Title	CH	Course type
		GEAE101	Academic English for Humanities and STEM		Gen. Ed. Theme 2: Academic Language Proficiency		Elective			Gen. Ed. Theme 5: Sustainability
	1	MATH130	Calculus I for Engineering		College Requirement	2	MATH135			College Requirement
9		PHYS105	General Physics I	3	College Requirement		CHEM111		3	College Requirement
ď		PHYS135	General Physics Lab I		College Requirement		CHEM175			College Requirement
3 (	Spring)	STAT210	Probability and Statistics	3	College Requirement	(Fall)	ARCH316		3	Specialization
١,	JP6/	ARCH302	Introduction to Architectural Engineering	3	Specialization	()	CIVL240	Statics	3	Specialization
				16					16	
		ARCH326	Building Construction Methods and Equipment		Specialization		ARCH320	Introductory Building Design Studio	3	Specialization
		CIVL358	Surveying for Architectural Engineering	2	Specialization		ARCH313		3	Specialization
Į.	3	MECH305	Mechanics of Materials		Specialization	4	MATH275			College Requirement
1	3	MATH140	Linear Aleebra I	3	College Requirement	-	PHYS110			Specialization
,	C \	ARCH366	History and Theories of Contemporary Architecture	3	College Requirement	/E-III	PHYS140			College Requirement
(	Spring)			-	and the second	(Fall)	CIVL345			Specialization
и,									-	
				14					16	
-		ARCH335	Intermediate Building Design Studio		Specialization		ARCH430	Integrated Building Design Studio		Specialization
	_	ARCH425	Advanced Building Construction Systems		Specialization	_	GENG215			College Requirement
	5	ARCH345	Building Engineering Systems		Specialization	6 (Fall)	GENG315			College Requirement
4		ARCH341	Building Electrical Circuits	3	Specialization		ARCH433			Specialization
1	Spring)	Elective	Student choice		Gen. Ed. Theme 7 or 8 or 9 or 10		Elective			Gen. Ed. Theme 7 or 8 or 9 or 10
١,	JPI III 6/	Dective	JEGGERI CHOICE	-	Gen. LG. Intellie 7 Gr B Gr 9 Gr 12		ENCLIVE	AUDERT CHOICE	,	Gen. Ed. Treme 7 Or 8 Or 7 Or 10
				15					14	
				15			_		4	
	Summer	ARCH485	Intrenship I	1	Internship					
				1						
		ARCH422	Structural Design for Buildings		Specialization	_	ARCH590	Capstone Engineering Design Project	3	Specialization
	7	ARCH440	Construction Project Management		Specialization	8	Elective			Major Elective
1	-	Elective	Student choice	3	Major Elective	_	Elective			Major Elective
1	Cariaal	Elective	Student choice		Gen. Ed. Theme 3: Innovation	(Fall)	GEEM110	Contemporary Emirati Studies		Gen. Ed. Theme 1: UAE National Identity
1 (	Spring)	ARCH342	Building Acoustics and Illumination		Specialization	(FdII)			•	
	, ,,		8	15		·			12	
	Summer	ARCH490	Intrenship II	1	Internship					
				1						
	0	ARCHS85	Design and Critical Thinking in Architectural Engineering	3	Specialization					
1	9	ARCH450	Construction Project Planning and Control	3	Specialization					
4		GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen. Ed. Theme 4: Entrepreneurship					
1	Spring)	Elective	Student choice	3	Math/Sci Elective					
_	JUILIE	Dective	Judgett Charle	,	macity act crective					