



Study Plan for the Bachelor's Degree in Architectural Engineering

(College of Engineering)

FIRST YEAR (FREASHMAN)							
	COURSE CODE	COURSE TITLE	LEC T	LA B	CRE D	PRE-REQUISITE	CO-REQUISITE
1st Term	MATH 101	Calculus I	4	0	4		PHYS 101
	PHYS 101	General Physics I	3	3	4		MATH 101
	ENGL 100	English Language	2	0	2		
	IC 111	Islamic Culture	2	0	2		
	CRCL 115	University Life Skills	3	0	3		
	ARE 101	Architectural Graphics	0	6	2		ARE 222
	TOTAL		14	9	17		
2nd Term	CHEM 101	General Chemistry I	4	3	4		
	PHYS 102	General Physics 2	3	3	4	PHYS 101	MATH 102
	ICS 103	Computer Programming in C	2	3	3	MATH 101	
	ENGL102	English Composition	3	0	3		
	MATH 102	Calculus 2	4	0	4	MATH 101	PHYS 102
	TOTAL		16	9	18		

SECOND YEAR (SOPHOMORE)							
	COURSE CODE	COURSE TITLE	LEC T	LA B	CRE D	PRE-REQUISITE	CO-REQUISITE
1st Term	ARE 222	Comp. Appl. Bldg. Design	1	3	2		ARE 101
	ARE 211	Building Materials	2	3	3		
	CE 201	Statics	3	0	3	PHYS 101	
	ARC 110	History of Architecture	2	0	2		
	MATH 201	Calculus III	3	0	3	MATH 102	
	ME 203	Thermodynamics I	3	0	3	MATH 102 + PHYS 102	
	CE 261	Surveying	1	3	2		
	TOTAL		15	9	18		
2nd Term	ARE 202	Architectural Design I	0	9	3	ARE 101+ ARE 222	
	ARE 212	Construction System	3	0	3	ARE 211	
	MATH 202	Elem. Diff. Equations	3	0	3	MATH 201	
	CE 203	Structural Mechanics I	3	0	3	CE 201	
	EE 202	Fund. of Electrical System	2	3	3	MATH 102 + PHYS 102	
	CE 230	Engineering Fluid Mechanics	3	0	3	MATH 102 + CE 201	
	TOTAL		14	12	18		

THIRD YEAR (JUNIOR)							
	COURSE CODE	COURSE TITLE	LEC T	LA B	CRE D	PRE-REQUISITE	CO-REQUISITE
1st Term	ARE 303	Working Drawing	0	9	3	ARE 202 + ARE 212	
	ARE 322	Building Mechanical Systems	2	3	3	PHYS 102	
	CE 305	Structural Analysis I	3	0	3	CE 203	
	MATH 321	Introduction to Numerical Computing	3	0	3	MATH 201	
	ARE 320	Architectural Acoustics	1	3	2	PHYS 102	
	ENGL 214	Technical Report Writing	3	0	3	ENGL 100	
	ETEC 115	Computer and Information	2	0	2		
	TOTAL		14	15	19		
2nd Term	ARE 345	Principles of HVAC	3	0	3	ARE 322 + ME203	
	ARE 325	Building Illumination	1	3	2	PHYS 1023	
	ARE 301	Architectural Design II	0	9	3	ARE 2023 + ARE 303	
	CE 315	Reinforced Concrete I	3	3	3	CE 305	
	STAT 319	Probability & Statistics	2	3	3	MATH 2013	
	EE 308	Building Electrical Systems	2	0	2	EE 202	
	ARAB 100	Arabic Language Skills	2	0	2		
	TOTAL		13	18	18		

Summer	ARE 350	Coop.	0	0	0	ARE303 + ARE325 + ARE345 + CE315+ EE 3083 + ENGL214 (Junior Standing)	
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FOURTH YEAR (SENIOR)							
	COURSE CODE	COURSE TITLE	LEC T	LA B	CRE D	PRE-REQUISITE	CO-REQUISITE
1st Term	ARE 351	Coop. (continued)	0	0	9	ARE303 + ARE325 + ARE345 + CE315 + EE 3083 + ENGL214 (Junior Standing)	
	TOTAL		0	0	9		
2nd Term	ARE 420	Senior Design Studio	0	9	3	ARE 351 (Senior Standing)	
	ARE 413	Construction Management	3	0	3	ARE 351	
	ARE 431	Building Economy	3	0	3	ARE 351 (Senior Standing)	
	CE 353	Geotechnical Engineering I	3	3	4	CE 203	
	EDUC 115	Work Values and Ethics	2	0	2		
	EDUC 125	Entrepreneurship	2	0	2		
	TOTAL		13	12	17		