

Architectural Engineering Program 4-Year Study Plan*

First Year: First Semester (Freshmen)					First Year: Second Semester (Freshmen)				
Course code	Course Title	Credit Hours	Requisite		Course code	Course Title	Credit Hours	Requisite	
			Pre-	Co-				Pre-	Co-
MATH 101	Calculus I	4	MATH 002		MATH 102	Calculus II	4	MATH 101	
PHYS 101	General Physics I	4	MATH 002	MATH 101	PHYS 102	General Physics II	4	PHYS 101	
CHEM 101	General Chemistry	4			ENGL 102	Introduction to Report Writing	3	ENGL 101	
ENGL 101	First Year Composition	3	ENGL 005		CS 141	Introduction to Computing for Engineers	3		
GHAL xxx	Humanities, Arts and Languages Elective	3			ENGG 103	Introduction to Engineering Drawing	1		
					GDMC xxx	Diversity and Multiculturalism Elective	3		
Total		18			Total		18		
Second Year: First Semester (Sophomore)					Second Year: Second Semester (Sophomore)				
MATH 201	Differential Equations	3	MATH 102		MATH 202	Calculus III	3	MATH 102	
AE 211	Introduction to Architecture Design & Graphics	2	ENGG 103		AE 212	Architectural Design I	3	AE 211	
AE 213	History of Architecture	2			AE 222	Applications of CAD & BIM Systems	2	CS 141, AE 211	
ENGG 203	Statics and Dynamics	4	PHYS 101		AE 232	Building Construction, Materials & Technology I	2	AE 211	
ENGL 201	Technical Writing	3	ENGL 102		ME 201	Thermodynamics	3	PHYS 102, MATH 102	
GIAS 101	Islamic Culture	3			CE 212	Strength of Materials	3	ENGG 203 or CE 201 **	
Total		17			Total		16		
Summer Field Experience I (Optional)			AE 294		1		Credit		
Third Year: First Semester (Junior)					Third Year: Second Semester (Junior)				
AE 301	Fluid Mechanics	3	ENGG 203, ME 201		AE 332	Building Construction Documents	2	AE 331	
AE 311	Architectural Design II	3	AE 212		AE 342	Electrical Systems & Illumination in Building	3	PHYS 102	
AE 331	Building Construction, Materials & Technology II	2	AE 232		AE 344	HVAC Systems	3	AE 301	
AE 343	Mechanical Systems in Buildings	3	ENGG 203		CE 312	Reinforced Concrete Design	3	CE 311	
CE 311	Structural Analysis	3	CE 212		STAT 342	Statistical Methods for Engineers	3	MATH 102	
GIAS 102	Arabic Language Skills	3			GSOS xxx	Social Sciences Elective	3		
Total		17			Total		17		
Summer Field Experience II			AE 394		1		Credit		
Fourth Year: First Semester (Senior)					Fourth Year: Second Semester (Senior)				
AE 411	Architectural Design III	3	AE 311		AE 462	Projects Management	3		
AE 461	Construction Economy	2			AE 492	Capstone Project II	3	AE 491	
CE 413	Steel Design	3	CE 311		AE 4xx	Professional Elective II	3	Depends on Topic	
AE 491	Capstone Project I	1	Senior Status*** >= 98		AE 4xx	Professional Elective III	3	Depends on Topic	
AE 4xx	Professional Elective I	3	Depends on Topic		GIAS xxx	Islamic Studies Elective	3		
XXXX xxx	Free Elective	3							
Total		15			Total		15		
Total Credit Hours Required					134				

Approved by College of Engineering Council, Meeting No. 12, 23 April 2017

Ver.:2.0, CoE/AE/ 23 April 2017

** (CE 201) for CE students, or (ENGG203) for AE students. *** Minimum of 98 earned credit Hours.

The English courses ENGL 111 and ENGL 112 can be taken as an elective within any of the areas ie GHAL, GDMC and GSOS

General Compulsory Courses	Program Compulsory Courses
General Elective Courses	Program Elective Courses
College Compulsory Courses	Summer Field Experience

* Subject to minor changes if required.