Alfaisal University
Bachelor of Architectural Enginnering
Study Plan Summary
Effective: Fall 2024

كلية الـهـندسة والـحـوسبة المـتـقـدمة
College of Engineering and Advanced Computing

Student:		ID#:		Email:	
Advisor:		Starting Semester:		Expected Graduation:	

4-Year Curriculum: 152 Credit Hours Total

Freshman Year - Fall Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
SE 100	Programming for Engineers	3		
SE 100 L	Programming for Engineers Lab	1		
CHM 102	Introduction to Chemistry	3		
CHM 102 L	Introduction to Chemistry Lab	1		
MAT 101	Calculus I	3		
PHU 103	Mechanics and Waves for Engineers	3		
PHU 103 L	Mechanics and Waves for Engineers Lab	1		
ENG 101	University Writing	3		
	Total	**18**		

Freshman Year - Spring Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
ARE 110	Architectural History and Theories	3		
ARE 120	Drafting and Drawing	1		
ARE 120 S	Drafting and Drawing Studio	2		
ME 201	Material Science and Engineering	3		
ME 201 L	Material Science and Engineering Lab	1		
MAT 112	Calculus II	3		
PHU 124	Electromagnetism and Optics for Engineers	3		
PHU 124 L	Electromagnetism and Optics for Engineers Lab	1		
ENG _ _ _	English Elective	3		
	Total	**20**		

Sophomore Year - Fall Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
ARE 201	Architectural Design I	3		
ARE 231	Building Materials and Construction Technology	3		
ARE 231 L	Building Materials and Construction Technology Lab	1		
ARE 232	Building Construction	3		
EE 207	Foundations of Electrical Engineering	3		
EE 207 L	Foundations of Electrical Engineering Lab	1		
ME 203	Applied Mechanics I: Statics	3		
MAT 211	Calculus III	3		
	Total	**20**		

Sophomore Year - Spring Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
ARE 202	Architectural Design II	3		
ARE 220	Construction Drawing (CAD)	2		
ARE 220 S	Construction Drawing (CAD) Studio	2		
ARE 297	Architecture and Buildings	3		
ME 206	Thermal Fluids Engineering I	3		
ME 206 L	Thermal Fluids Engineering I Lab	1		
ARB 101	Arabic Language I	2		
ENG 222	Technical Writing	3		
	Total	**19**		

Junior Year - Fall Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
ARE 303	Interior Design	2		
ARE 303 S	Interior Design Studio	1		
ARE 355	Quantity Surveying	3		
ARE 341	The Built Environment	3		
ME 407	Heating, Ventilation, and Air-Conditioning	3		
MAT 212	Liner Algebra	3		
MAT 213	Differential Equations	3		
ISL 101	Islamic Studies I	2		
	Total	**20**		

Junior Year - Spring Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
ARE 311	Building Acoustics	3		
ARE 313	Electrical Installations	3		
ARE 315	Lighting Systems and Applications	3		
ARE 321	Structural Mechanics	3		
ARE 321 L	Structural Mechanics Lab	1		
ARE 332	Building Services Engineering	3		
ARE 332 L	Building Services Engineering Lab	1		
	Total	**17**		

Junior Year - Summer Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
ARE 390	Architectural Engineering Summer Internship	0		
	Total	**0**		

Senior Year - Fall Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
ARE 405	Structural Analysis	3		
ARE 409	Project Management and Economics	3		
ARE 410	Contracts and Liabilities for Buildings and Construction	3		
ARE 412	Environmental Management and Policy	3		
ARE 4 _ _	Technical Elective	3		
ARE 4 _ _	Technical Elective	3		
ARE 491	Architectural Engineering Capstone Project I	2		
	Total	**20**		

Senior Year - Spring Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
ARE 406	Fundamentals of Reinforced Concrete Design	3		
ARE 465	Management Principles in Building Engineering	3		
ARE 492	Architectural Engineering Capstone Project II	2		
ARE 4 _ _	Technical Elective	3		
MAT 224	Numerical Methods	3		
_ _ _ _ _ _	General Education Elective I	2		
_ _ _ _ _ _	General Education Elective II	2		
	Total	**18**		

Alfaisal University – Bachelor of Architectural Engineering
Prerequisites Chart (Effective Fall 2024)

Year 1 (Freshman)	Year 2 (Sophomore)	Year 3 (Junior)	Year 4 (Senior)

[1]: Prerequisites vary per course

[2]: Department approval