

كلية الهندسة والحوسبة المتقدمة College of Engineering and Advanced Computing

## Bachelor of Architectural Engineering

#### **Professional Occupations**

- Architectural Engineer
- Site Architect Engineer
- Project / Construction Manager
- Quantity Surveyor
- Site Manager
- Architectural Inspecto
- Sustainability Engineer

#### **Program Overview**

Architectural Engineering combines architecture with engineering to focus on the link between systems design and construction strategies. If you are interested in building things, thinking about how things work, drawing, model design, working with your hands, working with others, then Architectural Engineering is the career for you. You will not only study architectural design, but you will also attain a technical background in structural, mechanical, electrical, plumbing design, and building services engineering. A degree in Architectural Engineering from Alfaisal University will prepare you for employment in a number of different fields in both construction and architecture.

#### **Competitive Edge**

Consistent with the mission statements of both the University and College of Engineering, the Architectural Engineering program at Alfaisal University delivers an educational program of study that prepares its graduates to become innovative and internationally recognized leaders in industry, government, and academia. Architecture Engineering students are trained to find innovative and creative solutions for complex engineering challenges through AEC education, research, and community involvement. Our faculty hold degrees from world-renowned universities, with the majority from North America. Additionally, our faculty have a high success rate in obtaining new research projects in both new and established disciplines. Furthermore, small class sizes provide students with the opportunity for individualized instruction.



#### Tracks

Optional tracks are available for students in the areas of:

- Sustainable Development
- Construction Management

Students will be able to tailor their senior-level technical electives to study new emerging technologies in these areas. More details are available on the department's website.

# Collaborators



Smart, desirable, feasible, marketable innovation to make the world better is what we do. IT's WHAT YOU'LL DO.

http://coe.alfaisal.edu/departments/ae\_home

### Alfaisal University Bachelor of Architectural Engineering | Study Plan Summary | Effective: Fall 2024

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ARE 4Technical Elective3ARE 491Architectural Engineering Capstone Project I2	ARE 303 S ARE 355 ARE 341 ME 407 MAT 212 MAT 213 ISL 101 Junior Year - Su Course Code ARE 390 Senior Year - Fa Course Code ARE 405 ARE 409	Interior Design Studio Quantity Surveying The Built Environment Heating, Ventilation, and Air-Conditioning Linear Algebra Differential Equations Islamic Studies I Total Total mmer Semester Course-Title Architectural Engineering Summer Internship Total Il Semester Course-Title Structural Analysis Project Management and Economics Contracts and Liabilities for Buildings and	2 1 3 3 3 3 3 2 2 2 0 2 0 CRHs 0 0 0 CRHs 3 3 3		
ARE 491 Architectural Engineering Capstone Project I 2	ARE 303 S ARE 355 ARE 341 ME 407 MAT 212 MAT 213 ISL 101 Junior Year - Su Course Code ARE 390 Senior Year - Fa Course Code ARE 405 ARE 409 ARE 410	Interior Design Studio Quantity Surveying The Built Environment Heating, Ventilation, and Air-Conditioning Linear Algebra Differential Equations Islamic Studies I Total mmer Semester Course-Title Architectural Engineering Summer Internship Total Il Semester Course-Title Structural Analysis Project Management and Economics Construction	2 1 3 3 3 3 3 2 20 20 CRHs 0 0 0 CRHs 3 3 3 3 3 3 3 3 3 3 3 3 3		
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	ARE 303 S ARE 355 ARE 341 ME 407 MAT 212 MAT 213 ISL 101 Junior Year - Su Course Code ARE 390 Senior Year - Fa Course Code ARE 409 ARE 409 ARE 410 ARE 412 ARE 4 ARE 4	Interior Design Studio Quantity Surveying The Built Environment Heating, Ventilation, and Air-Conditioning Linear Algebra Differential Equations Islamic Studies I Total mmer Semester Course-Title Architectural Engineering Summer Internship Total Il Semester Course-Title Structural Analysis Project Management and Economics Contracts and Liabilities for Buildings and Construction Environmental Management and Policy Technical Elective	2 2 1 3 3 3 3 3 2 20 20 20 20 20 20 20 20 20		

	- Spring Semester	
Course Code	Course-Title	CRHs
ARE 110	Architectural History and Theories	3
SE 100	Programming for Engineers	3
SE 100 L	Programming for Engineers Lab	1
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
	Total	18
Sophomore Yea	ar - Spring Semester	
Course Code	Course-Title	CRH
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 and Literature I	2
ENG 222	Technical Writing	3
	Total	19
Junior Year - Sp	ring Semester	
Course Code	Course-Title	CRHs
ARE 311	Building Acoustics	3
ARE 313	Electrical Installations	3
ARE 315	Lighting Systems and Applications	3
ARE 321	Structural Mechanics	3
ME 321 L	Structural Mechanics Lab	1
ME 332	Building Services Engineering	3
ARB 332 L	Building Services Engineering Lab	1
ENG	English Elective	3
	Total	20

Senior Year - Spring Semester			
Course Code	Course-Title	CRHs	
ARE 406	Fundamentals of Reinforced Concrete Design	3	
ARE465	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	