



# Bachelor of Architectural Engineering

## Academic Pathways

### Professional Occupations

- Architectural Engineer
- Site Architect Engineer
- Project / Construction Manager
- Quantity Surveyors
- Site Manager
- Architectural Inspector
- Sustainability Engineer

- Major in Architectural Engineering
- Double Major in Architectural Engineering
- Track in Construction Management
- Track in Sustainable Development

More details are available on the department's website.

### 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.

## Collaborators



Engineering Accreditation Commission

ABET Accredited Program



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Alfaisal University  
Bachelor of Architectural Engineering | Study Plan Summary | Effective: Fall 2026

**4-Year Curriculum:** 141 Credit Hours Total

Freshman Year - Fall Semester		
Course Code	Course-Title	CRHs
ARE 120	Drafting and Drawing	1
ARE 120 S	Drafting and Drawing Studio	2
COE 100	Student Orientation and Academic Success	1
CHM 101	General Chemistry I	3
CHM 101 L	General Chemistry I Lab	1
MAT 101	Calculus I	3
PHU 103	Physics I	3
PHU 103 L	Physics I Lab	1
ENG 101	University Writing	3
	<b>Total</b>	<b>18</b>

Sophomore Year - Fall Semester		
Course Code	Course-Title	CRHs
ARC 202	Architectural Design Studio (SPACES I)	4
ARE 231	Building Materials and Construction Technology	3
ARE 231 L	Building Materials and Construction Technology Lab	1
EE 207	Foundations of Electrical Engineering	3
EE 207 L	Foundations of Electrical Engineering Lab	1
ME 203	Applied Mechanics I: Statics	3
ARE 232	Building Construction	3
	<b>Total</b>	<b>18</b>

Junior Year - Fall Semester		
Course Code	Course-Title	CRHs
ARE 355	Quantity Surveying	3
ARE 341	The Built Environment	3
ME 407	Heating, Ventilation, and Air-Conditioning	3
	Arts & Humanities Elective I	3
MAT 211	Calculus III	3
ARE 309	Project Management and Economics	3
	<b>Total</b>	<b>18</b>

Junior Year - Summer Semester		
Course Code	Course-Title	CRHs
ARE 390	Architectural Engineering Internship	0
	<b>Total</b>	<b>0</b>

Senior Year - Fall Semester		
Course Code	Course-Title	CRHs
ARE 405	Structural Analysis	3
ARE 4 __	Contracts and Liabilities for Buildings and Construction	3
ARE 4 __	Architectural Engineering Technical Elective I	3
ARE 4 __	Architectural Engineering Technical Elective II	3
ARE 491	Architectural Engineering Capstone Project I	3
MAT 213	Differential Equations	3
	<b>Total</b>	<b>18</b>

Freshman Year - Spring Semester		
Course Code	Course-Title	CRHs
ARE 110	Architectural History and Theories	3
ARC 101	Architectural Design Studio (FORMS)	4
ME 201	Material Science and Engineering	3
ME 201 L	Material Science and Engineering Lab	1
MAT 112	Calculus II	3
PHU 124	Physics II	3
PHU 124 L	Physics II Lab	1
	<b>Total</b>	<b>18</b>

Sophomore Year - Spring Semester		
Course Code	Course-Title	CRHs
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
AI 102	AI for Everyone: Foundation and Applications	3
SE 100	Programming for Engineers	3
SE 100 L	Programming for Engineers Lab	1
	<b>Total</b>	<b>18</b>

Junior Year - Spring Semester		
Course Code	Course-Title	CRHs
ARE 315	Electrical and Lighting Systems in Buildings	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
ENG 222	Technical Writing	3
MAT 212	Linear Algebra	3
	<b>Total</b>	<b>17</b>

Senior Year - Spring Semester		
Course Code	Course-Title	CRHs
ARE 499	Ethics and Professional Development	1
ARE 406	Fundamentals of Reinforced Concrete Design	3
ARE 492	Architectural Engineering Capstone Project II	3
ARE 4 __	Architectural Engineering Technical Elective III	3
MAT 224	Numerical Methods	3
	Social Sciences Elective I	3
	<b>Total</b>	<b>16</b>