جامعة الفيصل
Alfaisal University

كلية الهندسة والحوسبة المتقدمة
College of Engineering and Advanced Computing

Bachelor of Architecture

Professional Occupations

- Architect
- Computational Architect
- Computational Designer
- Landscape Architect
- Urban Designer

Program Overview

The Bachelor of Architecture (B.Arch) program at Alfaisal University is a four-year professional degree designed to prepare students for careers in architecture through a comprehensive curriculum integrating design, sustainability, and advanced digital methodologies. The program follows an interdisciplinary approach, emphasizing computational design, AI-driven workflows, and hands-on studio-based learning. Aligned with Saudi Vision 2030, it prepares graduates to contribute to major urban development projects. The curriculum covers essential areas, including construction technologies, urban, and building sustainability, ensuring graduates are well-equipped to lead innovative and sustainable architectural practices in the region and beyond.

Competitive Edge

The Bachelor of Architecture (B.Arch) program at Alfaisal University offers a distinct competitive edge by integrating cutting-edge digital design methodologies, sustainability principles, and interdisciplinary collaboration into its curriculum. Unlike traditional architecture programs, it emphasizes computational design, AI-driven workflows, and parametric modeling, ensuring graduates are equipped with skills that align with the evolving demands of the industry. Additionally, the program's strong alignment with Saudi Arabia's Vision 2030 and its focus on innovative urban development projects position its graduates at the forefront of architectural transformation in the region. Furthermore, specialized concentration tracks—including AI in Architecture, Digital and Parametric Design, Robotics in Architecture, Computational Landscape Design, and Computational Interior Design—distinguish the program from regional counterparts by providing targeted expertise in emerging areas of architectural practice. The hands-on learning approach, bolstered by state-of-the-art digital fabrication labs and real-world project collaborations, further enhances students› practical experience, making them highly sought after in the job market. With a faculty composed of distinguished scholars and practitioners, the B.Arch program at Alfaisal University stands as a leader in shaping the next generation of architects capable of designing sustainable, technologically advanced, and culturally resonant spaces.

Academic Pathways

- Major in Architecture
- Track in AI in Architecture
- Track in Robotics in Architecture

More details are available on the department's website.

Collaborators

BOEING, King Faisal Specialist Hospital & Research Centre, Massachusetts Institute of Technology, King Abdullah University of Science and Technology, SDAIA, KACST, SCE, IEEE, Purdue University, Vanderbilt University, The University of Utah, BAE Systems, ABB, stc, AGH, University of Houston, Honeywell, Savvy Games Group, IBM, Siemens, Unity, Kansas State University, Osaka University, Thales, The Sandbox, Henning Larsen, saudi energy, Saudi Aramco, sabic, Tatweer, Qiddiya, Roshn Group, Ministry of Industry & Mineral Resources, SAMI, Prince Sultan Defense Studies & Research Center, Ministry of Municipalities and Housing, Ministry of Communications and Information Technology, Digital Government Authority, Saudi Water Authority, Project Management Institute, Jadwalean, Saudi Arabia Centre for the Fourth Industrial Revolution

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

Alfaisal University

Bachelor of Architecture | Study Plan Summary | Effective: Fall 2025

4-Year Curriculum: 150 Credit Hours Total

Freshman Year - Fall Semester		
Course Code	Course-Title	CRHs
ARC 100	Design Thinking Studio	3
ARC 130	Hand and Digital Sketching	3
MAT 101	Calculus I	3
PHU 103	Physics I	3
PHU 103 L	Physics I Lab	1
ARE 120	Drafting and Drawing	1
ARE 120 S	Drafting and Drawing Studio	2
	Arts & Humanities Elective I	3
COE 100	Student Orientation and Academic Success	1
	Total	**20**

Freshman Year - Spring Semester		
Course Code	Course-Title	CRHs
ARC 101	Architectural Design Studio (FORMS)	4
ARC 140	Introduction to Architecture and the Built Environment	3
ARC 132	Digital Drawing and Modelling	3
ARE 110	Architectural History & Theory I	3
ENG 101	University Writing	3
AI 102	AI for Everyone: Foundation and Applications	3
	Total	**19**

Sophomore Year - Fall Semester		
Course Code	Course-Title	CRHs
ARC 202	Architectural Design Studio (SPACES I)	4
ARC 233	Advanced Digital Visualization	3
ARC 211	Architectural History & Theory II	3
ARC 220	Structure Systems I	3
ARE 231	Building Materials and Construction Technology	3
ARE 231L	Building Materials and Construction Technology Lab	1
ARE 232	Building Construction	3
	Total	**20**

Sophomore Year - Spring Semester		
Course Code	Course-Title	CRHs
ARC 203	Architectural Design Studio (SPACES II)	6
ARC 223	Structure Systems II	3
ARC 241	Sustainability and Environmental Design	3
ENG 222	Technical Writing	3
ARE 220	Construction Drawing (CAD)	2
ARE 220 S	Construction Drawing (CAD) Studio	2
	Total	**19**

Junior Year - Fall Semester		
Course Code	Course-Title	CRHs
ARC 304	Architectural Design Studio (SYSTEMS)	6
ARC 342	Computational Architecture	3
ARC 343	Urban Design and Planning	3
ARC 350	Land Surveying and GIS	3
	Arts & Humanities Elective II	3
	Total	**18**

Junior Year - Spring Semester		
Course Code	Course-Title	CRHs
ARC 305	Architectural Design Studio (CONTEXTS)	6
ARC 327	Envelope System Design	3
ARC 312	Architectural History & Theory III	3
ARC 326	Lighting and Acoustics	3
ARC 351	Contracts and Quantity Surveying	3
	Total	**18**

Summer Internship Option		
Course Code	Course-Title	CRHs
ARC 390	Architecture Internship	0
	Total	**0**

Senior Year - Fall Semester		
Course Code	Course-Title	CRHs
ARC 406	Architectural Design Studio (INTEGRATIONS)	6
ARC 4 - -	Architecture Technical Elective I	3
ARC 4 - -	Architecture Technical Elective II	3
ARC 498	Pre-Undergraduate Design Project	2
	Social Sciences Elective I	3
	Total	**17**

Senior Year - Spring Semester		
Course Code	Course-Title	CRHs
ARC 499	Undergraduate Design Project	9
ARC 4 - -	Architecture Technical Elective III	3
ARC 452	Professional Practice	3
ARE 401	Ethics and Professional Development	1
ARC 4 - -	Architecture Technical Elective IV	3
	Total	**19**