

## Professional Occupations

- Software Engineer
- Software Analyst
- Software Developer
- Software Architect
- Software Project Manager
- Software Quality Manager

**Taming technology and disseminating knowledge is what we do. Engineering innovative software to make the world better IS WHAT YOU'LL DO.**

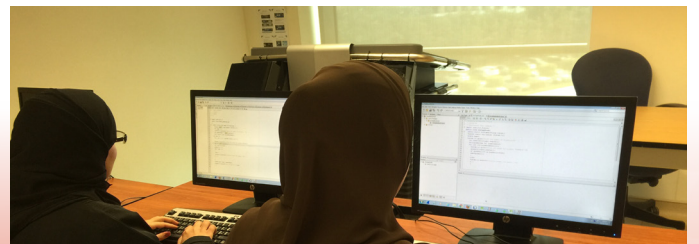
# Alfaisal University Bachelor of Software Engineering

## Program Overview

Software engineering is the study and application of engineering principles to the design, development, and maintenance of software systems. It combines computing science, engineering, and mathematics into a unique and potent blend. The demand for software engineers has been high worldwide and is still on the rise. At Alfaisal, the Software Engineering curriculum will prepare you with both theoretical and applied expertise in this technically challenging and highly competitive field. Students build problem solving skills to develop market-driven innovations and to be leaders in software systems development and maintenance. They are exposed to the business and management side of engineering: project management, e-commerce, economics and management for engineers. This exposure develops excellent entrepreneurship skills and offers employment opportunities, especially in the fast growing sector of software companies.

## Competitive Edge

Our Software Engineering program is designed to provide a solid foundation in the main topics of the software engineering body of knowledge. This foundation allows our graduates to excel in the design, development, operation, and maintenance of complex software systems. Our faculty possess strong educational backgrounds, with the majority graduating from well-renowned western universities. They are successfully competing for new research projects in new and established areas. We value quality over quantity hence small-sized classes allow professors to dedicate enough attention to students on individual basis.



# Curriculum

Year	Term	Course-Title	CRHs
1 <sup>st</sup> Year	Fall	Course-Title	3
		Freshman English I	3
		Calculus I	3
		Mechanics and Waves for Engineers	1
		Mechanics and Waves for Engineers Lab	3
	Spring	Programming for Engineers	1
		Programming for Engineers Lab	3
		Introduction to Chemistry	1
		Introduction to Chemistry Lab	1
		<b>Total</b>	<b>18</b>
2 <sup>nd</sup> Year	Fall	Course-Title	3
		Technical Writing	3
		Linear Algebra	3
		Introduction to Software Engineering	1
		Introduction to Software Engineering Lab	3
	Spring	Discrete Structures for Software Engineers	1
		Algorithms and Data Structures	3
		Algorithms and Data Structures Lab	1
		Numerical Methods	3
		<b>Total</b>	<b>17</b>
3 <sup>rd</sup> Year	Fall	Course-Title	2
		Islamic Studies I	3
		Computer Networks	1
		Computer Networks Lab	3
		Computer Architecture	1
	Spring	Computer Architecture Lab	3
		Database Management Systems	1
		Database Management Systems Lab	3
		Operating Systems	1
		<b>Total</b>	<b>17</b>
4 <sup>th</sup> Year	Summer	Software Engineering Summer Internship	0
	Fall	Course-Title	0
		Islamic Studies II	2
		Software Architecture	3
		Software Testing and Quality Assurance	3
		Mobile Application Development	3
	Spring	Mobile Application Development Lab	1
		Technical Elective	3
		Software Engineering Capstone Project I	2
		<b>Total</b>	<b>17</b>
Arabic Language and Literature II		2	
Professional Practice and Software Documentation	3		
Software Maintenance, Configuration Management and Evolution	3		
Technical Elective	3		
Technical Elective	3		
Software Engineering Capstone Project II	2		
<b>Total</b>	<b>16</b>		

# College Collaboration



## Admissions Requirements

For admission criteria and how to apply, visit <http://admissions.alfaisal.edu>

For more information about Alfaisal's Software Engineering, visit [http://coe.alfaisal.edu/departments/se\\_home](http://coe.alfaisal.edu/departments/se_home)

## Alumni Network

Our Alumni network spans some of the most influential national and international companies and institutions

- Microsoft
- Boston Consulting Group (BCG)
- IBM
- SADAD
- National Commercial Bank (NCB)
- Saudi Ministry of Health
- Thales
- Oracle

## Alfaisal University

P.O. Box 50927, Takhasusi Road - Riyadh Kingdom of Saudi Arabia



- + 966 11 215 7762
- coe@alfaisal.edu
- www.facebook.com/AUCOE
- twitter.com/alfaisaluniv
- www.youtube.com/user/alfaisaluniv