

# Curriculum

COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE
<b>General Education Requirements: 33 Credit Hours</b>					
ARL 100	Communication Skills in Arabic I	ENG 200	English II	ENG 305	Technical Communications for Eng. & Science
FWS 100	Academic Skills for Success	FWS 205	UAE and GCC Society	FWS 211	Fundamentals of Emotional Intelligence
FWS 310	Fundamentals of Innovation and Entrepreneurship	ISL 100	Islamic Culture	MTT 101	Mathematics for Science and Technology
GES 201	General Science	STT 100	General Statistics		
<b>Degree Requirements: 36 Credit Hours</b>					
SWE 201	Structured Programming	CSC 202	Programming II	CSC 301	Data Structures and Algorithms
CSC 302	Database Management Systems	CSC 305	Data Communications and Networks	CSE 210	Introduction to Cybersecurity Engineering
ECT 200	Introduction to Computing	ITE 390	Computer Ethics	ITE 399	Internship/Project in IT
ITE 499A	Capstone Design Project I	ITE 499B	Capstone Design Project II	MTT 202	Discrete Structures and Applications
STT 201	Intermediate Statistics and Research Methods				
<b>Major Requirements: 42 Credit Hours</b>					
CSE 420	Ethical Hacking	CIS 404	Data Warehousing and Data Mining	CSC 307	Web Design
CSC 308	Operating systems	CSC 401	Software Engineering	CSC 408	Distributed Information Systems
ITE 401	IT Project Management	ITE 402	Computer Networks Design and Implementation	ITE 408	Information Security
ITE 409	Human Computer Interactions	ITE 414	Introduction to E-commerce	ITE 421	Native Mobile Application Development
ITE 422	System and Network Administration	ITE 442	Data Science and Big Data Analytics		
<b>Electives: 15 Credit Hours</b>					
ME 1	Major Elective I	ME 2	Major Elective II	ME 3	Major Elective III
OE 1	Open Elective I	OE 2	Open Elective II		
<b>Concentration</b>					
<b>Cybersecurity Concentration Requirements: 15 Credit Hours</b>					
CSE 300	Introduction to Digital Forensics	CSE 310	Introduction to Cryptography	CSE 400	Network Security and Forensics
CSE 410	Mobile Device Security	CSC 406	Artificial Intelligence		
<b>Game Development Concentration Requirements: 15 Credit Hours</b>					
CSC 406	Artificial Intelligence	CSC 404	Computer Graphics and Animation	ITE 430	Mobile Game Development
ITE 432	Collaborative Game Design	CE 1	Concentration Elective!		



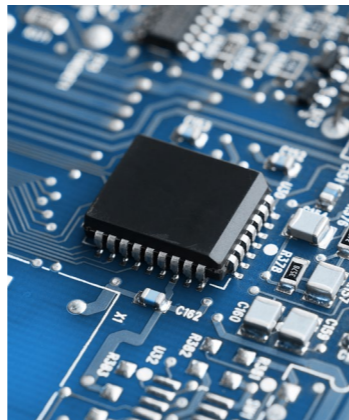
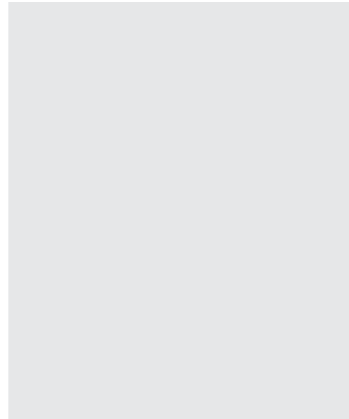
## BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY



## Program Overview

Information Technology (IT) is concerned with studying various areas that are related to meeting user's needs in various activities of computing technology. The Information Technology (IT) program is designed to educate students about the current trends of IT that offer better potential for employability. Students will acquire the core knowledge needed for IT professionals and, at the same time, have specific knowledge in specialized areas. The program is structured as a set of core courses and three concentrations. Through these concentrations, students will learn up-to-date knowledge in this fast-growing field and increase their chances to find jobs. These concentrations will focus on web technology and internet applications, networking, mobile applications and security, and interactive media, game programming and simulation. Moreover, students will be offered the opportunity to do a practical project. This project-oriented approach will improve their learning curve and help them have a hands-on experience. Moreover, the IT program at Abu Dhabi University is designed in conformance to international standards and guidelines. This ensures that graduates of the program will be uniquely qualified to design, analyze, integrate, and administer computing technologies.

The educational mission of the Information Technology undergraduate program is to provide students with a multidisciplinary curriculum that is fundamental, yet broad and flexible. The program seeks to produce graduates who are well-rounded in knowledge and practices of Information Technology; who have the ability to analyze, evaluate, and design Information Technology systems; who have the ability to communicate effectively; who have had meaningful opportunities for undergraduate research; and who have acquired an understanding and appreciation for global and societal issues and are thus prepared for a career path toward leadership in industry, government, and academia.

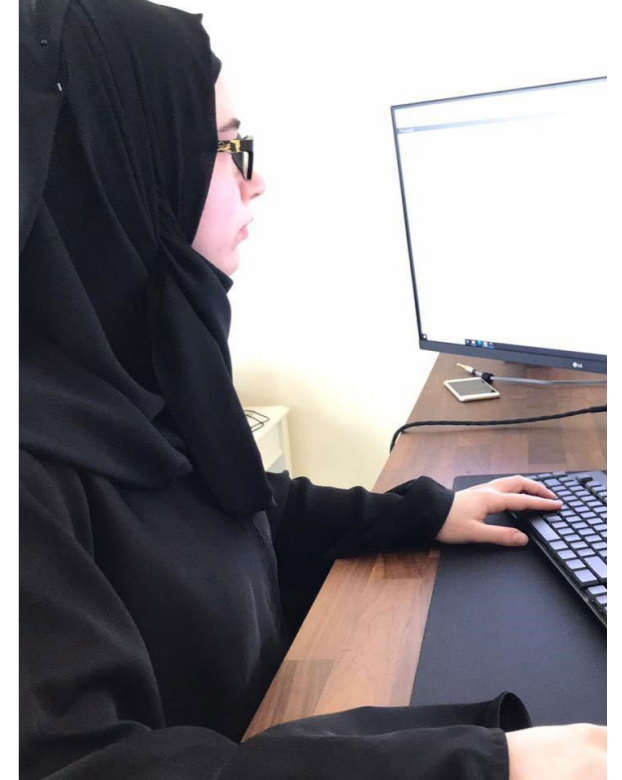


## Student's Testimonial

**I will forever be thankful to all of ADU Community**

**Huda Mahmoud Khafaji** - Information Technology student

If I had to describe how I felt the first time I entered ADU as a freshman, I would choose the word "terrified". Looking back at that day now, however, I can see how quickly, and without me even realizing, the ADU family has managed to replace that feeling with confidence. As I near graduation, I can easily reflect on my time at ADU's Computer Science department and notice how much that scared freshman has grown. In the span of 4 years, ADU has nurtured me enough that mine and my teammates graduation project was featured in a newspaper. I have both had the chance to grow personally as an active leader in the student body, and academically with 2 research papers to be published in accredited journals soon, and a third to be in progress. As an undergraduate, these achievements are something that I completely owe the ADU faculty for extending the opportunity for. My professors have taught me so much about the power and responsibility that comes with IT. I have always wanted my education to enable me to "help people", and Freshman-me could have never imagined that I would have the capabilities to do that now. I am excited to graduate soon, but I am also quite sad to say goodbye to my days as an IT student at ADU. I will forever be thankful to my colleagues, instructors, professors, and all of ADU's staff.



## Career Prospects

- Software Developer
- Web Developer
- Cybersecurity Analyst (for Cybersecurity concentration)
- Data Analyst / Data Scientist
- Network Administrator
- Database Administrator
- Systems Analyst / IT Consultant
- IT Support / Help Desk