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www.mcbs.edu.om



## **ADMISSION CRITERIA**

- Recognized general education diploma or its equivalent
- Students joining MCBS must go through an English placement test to determine the appropriate English level
- Students presenting a valid score of 5-5.5 in IELTS or 65-79 in internet based TOEFL (iBT) are exempted from the English program
- Students will need to go through Mathematics and IT placements tests to determine their levels of proficiency in these subjects as they are part of the GFP or possible exemption

The BS program in Game Development and Animation is a perfect fit for students passionate about creating immersive and interactive experiences. The game industry has grown to be a multi-billion-dollar sector as technology progresses, and animation is now a crucial part of films, television programs, and other visual media.

The program covers courses such as Computer Graphics, Interactive Animation Techniques, 3D animation, Game Design, Digital Animation and Effects, Simulation & Game Programming, Mobile Game Development, Software Quality Assurance and Testing, Artificial Intelligence for Games Development, Machine Learning for Game Development, Virtual Reality, Augmented Virtual & Mixed Reality, Digital Imaging, etc along with basic computer science courses in programming and software development.

**EXCELLENCE IN HIGHER EDUCATION** 

## BS IN GAME DEVELOPMENT AND ANIMATION

## PROGRAM STRUCTURE

Duration: Bachelor's degree requires about 8 semesters or 4 years

Program delivery: 12-15 credits per normal semester and 6 credits per summer semester

**Internship:** Placement on a minimum of 6-weeks internship.

Courses: Apart from courses closely related to the program, students take general education courses.

© Core Courses: 60 credits

© Communication skills: 9 credits

Humanities: 9 creditsSocial Sciences: 9 credits

Mathematics Requirements: 9 credits

Science Requirements: 8 credits

Core Electives: 15 creditsInternship: 1 credit

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## **Program Core Requirements - 60 credits** Core Electives - 15 credits COSC 1301 Object Oriented Programming I (3) COSC 2325 Data Communication and Networks Web Application Techniques (Required) ICT 128 (3)(3)ICT 205 Software Engineering (3)COSC 2301 Object Oriented Programming II (3)**CPT 220 Programming and Data Structures** (3)COSC 4326 Data Visualization ISEC 2340 Principle of Information Security (3) COSC 4354 Digital Image Processing (3)COSC 2335 Introduction to Computer Graphics (3)COSC 4390 Introduction to Deep Learning COSC 2336 Interactive Animation Techniques (3) COSC 4392 Federated Machine Learning COSC 4393 Special Topics in Game Development COSC 2338 Introduction to 3D animation (3)COSC 3335 Introduction to Game Design (3)COSC 4394 Special Topics in Animation (3)COSC 3340 Digital Animation and Effects (3)ITEC 4332 Audio-Visual Communication Technology (3) COSC 3350 Simulation & Game Programming (3)COSC 3379 Mobile Game Development Internship (3)COSC 3395 Software Quality Assurance and Testing (3) ICT 3145 Internship (1) COSC 4304 Artificial Intelligence for Games Development (3)COSC 4344 Machine Learning for Game Development (3) ITEC 4320 Introduction to Virtual Reality (3)ITEC 4322 Augmented Virtual & Mixed Reality (3)ITEC 4324 Introduction to Digital Imaging (3)COSC 4378 Capstone Game Development Project I (3)COSC 4379 Capstone Game Development Project II (3)

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