COMPUTER GAME AND MOBILE APPLICATIONS PROGRAMMER - CERTIFICATE

Certificate

Faculty Adviser

Erika Feralova: 503-491-7434 | Room AC2779 | Erika.Feralova@mhcc.edu

There has been massive growth in both the video game and mobile app industries. MHCC's program combines both, giving students strong skills that are high in demand. Students who complete this program will learn the tools to become entry level app and game programmers. In addition, students will also train in User Interface (UI) and User Experience (UX).

All core courses must be completed within 5 years in order for the certificate to be awarded.

Program Outcomes

At the completion of this program, students should be able to:

- Design games and systems which can be deployed in a mobile environment
- Develop intermediately complex solutions to specific problems
- Demonstrate basic fluency in Apple iOS Mobile Apps development and Unity Game programming
- Demonstrate basic fluency in common web programming languages
- Demonstrate basic fluency in a common scripting language (such as Python)
- Critically analyze a customer request and provide multiple possible solutions
- Critically analyze a basic design structure and provide input on enhancing user experience
- Design an application or a game suitable for delivery in a mobile environment.

General education courses (such as math, writing, health, etc.) can be taken during any term, or before starting the program.

First Quarter		Credits
CIS125GA	Beginning Game Programming ★	3
CIS195	Interface Design for Interactive Applications ★	3
CIS197CSP	Web Authoring: Client-Side Programming ★	3
CIS197HTM	Web Authoring: HTML5 and CSS3 ★	3
MTH065	Beginning Algebra II ★ (or higher)	4
	Credits	**16**
Second Quarter		
CIS235UNA	Small Games Programming I ★	3
ISTM133P	Introduction to Python ★	4
ISTM235MA	Mobile Apps 1: Introduction to iOS Mobile Applications Development	3
WR121Z	Composition I ★	4
	Credits	**14**

Third Quarter		
CIS135TXP	Special Topics in Emerging Technologies ★	3
CIS235UNB	Small Games Programming II ★	3
ISTM235MB	Mobile Apps 2: Intermediate iOS Mobile Applications Development	3
Human Relations requirement (https://catalog.mhcc.edu/degree-certificate-requirements/aas/#human)		3-4
	Credits	**12-13**
	Total Credits	**42-43**