Information Technology, AAS
Game Development – Concentration

Academic Year 2024-2025

Program Description:

Students who receive an AAS. in Information Technology (IT) with the Game Development concentration will not only possess a solid foundation of computer skills and knowledge but will have the experience of building real, multi-platform games to showcase their portfolios. The Game Developer curriculum prepares students to enter this ever-growing field by working with some of the most in-demand programming languages and tools used in the game development world beginning with a foundation in object-oriented programming using Python. Students will then create dull 3D games via Unreal Engine's visual scripting system, Blueprint. Building upon this knowledge and familiarity of Unreal Engine, students will spend their remaining time developing games using C++, Blueprint, and other 3D content creation software such as Blender.

Career Outlook and Salary Information:

For the most current career outlook information please refer to the Bureau of Labor Statistics "Occupational Outlook Handbook" found at www.bls.gov/ooh/.

Program Outcomes:

- Communicate clearly in writing and in speech in all professional situations
- Apply design and development principles in the construction of computer games
- Collaborate effectively with team members on projects
- Develop games from design through production to release
- Plan and manage projects efficiently and effectively by developing a detailed schedule of tasks, key design documents, and benchmarks using the best tools and best practices

Program Admission Requirements:

The college adheres to an open admission policy which means applicants with a high school diploma or a GED are eligible for admission. Applicants with neither a high school diploma nor a GED may be admitted on a conditional basis.

Contact Information:

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Information Technology Major Code – CI20 • Game Development Concentration Code – CI28				
Name:			**ID Number 942-**	
Educational Counselor:				
Faculty Advisor:				

COURSE REQUIRED

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
ENL 101	Written Communication [1]		3				
IT 101 **or** IT 102	Fundamentals of Computers Advanced Computer Applications [2]		3				
IT 110	Computer Skills for Designers		3				
IT 171	Introduction to Gaming I	F	3				
IT 298	Game Development Internship		1				
MAT 120	Applied Professional Mathematics [3]		3				
			16				
COM 112 or COM 125	Oral Communication or Interpersonal Communication		3				
IT 107	Fundamentals of the Internet		3				
IT 115	Introduction to Programming [4]	S	3				
IT 212	Publishing on the Internet [5,6]		3				
IT 271	Game Development II [6,7]	S	3				
IT 298	Game Development Internship		1				
			16				
ENL 131	Technical Report Writing [8]		3				
IT 213	Web Graphic Design [5]	F	3				
IT 215	Advanced Programming [9]	F	3				
IT 250	Applications to Database [4]	F	3				
IT 298	Game Development Internship		1				
	IT Elective [10]		3				
			16				
IT 242	Emerging Web Technologies [6,11]	S	3				
IT 272	Intro to 3D Modular Programming [6,12]	S	3				
IT 277	Management Information Systems		3				
IT 298	Game Development Internship		1				
	IT Elective		3				
			13				

[1] ENL 101 has a prerequisite of placement in 100-level English or a corequisite of ENL 095. Students must complete ENL 101 with a "C" or better to graduate.
[2] The student must register for IT 101 during his or her first semester or successfully pass a challenge exam for IT 101.
[3] Math 120 has a prerequisite of placement in 100-level Math or a minimum ACT Math score of 19 or SAT Math score of 510.
[4] IT 115, and IT 250 have a prerequisite of IT 101 or IT 102.
[5] IT 212 and IT 213 have a prerequisite of IT 107.
[6] IT 212, IT 242, IT 271, and IT 272 are offered spring semesters only.
[7] IT 271 has a prerequisite of IT 171 with a "C" or better.
[8] ENL 131 has a prerequisite of placement in 100-level English or a corequisite of ENL 095.
[9] IT 215 has a prerequisite of a "C" or better in IT 115.
[10] Choose from one of the following: IT 111, IT 112, IT 113, IT 120, IT 141, IT 150, IT 160, IT 165, IT 210, IT 211, IT 216, IT 217, IT 219, IT 221, IT 222, IT 223, IT 224, IT 225, IT 226, IT 227, IT 230, IT 231, IT 240, IT 241, IT 245, IT 252, IT 255, IT 260, IT 266, IT 270, IT 276, IT 278, IT 279, or IT 293.
[11] IT 242 has a prerequisite of IT 212.
[12] IT 272 has a prerequisite of IT 215 with a "C" or better.

Mountwest empowers students to learn and lead in the community and in the workforce.
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