Career Technical Pathway
Game Design and Simulation Certificate

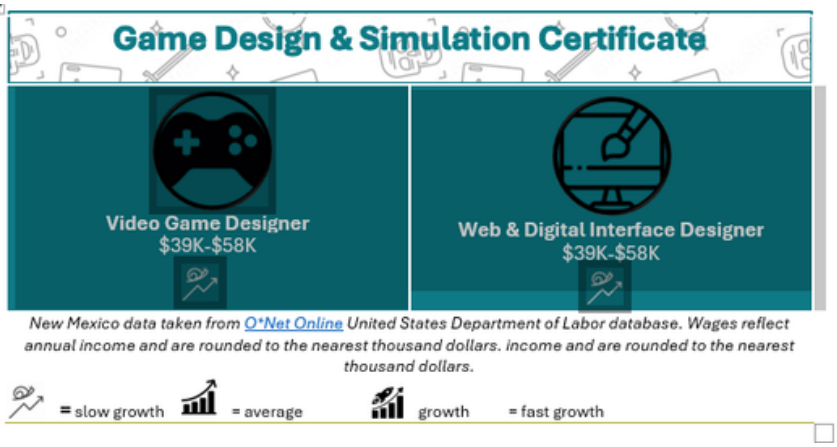
This program will enable students to take their passion for digital games and technology and turn it into a lifelong career centered on effectively utilizing game technology for education, entertainment, and research. This degree takes an interdisciplinary approach by leveraging existing programs offered at UNM-Valencia to form the foundation for understanding the components of game development. Students will have the opportunity to study the function of games and gameplay and will develop interactive projects that address the technical challenges of game production.

	Course	Credits
Fall	FDMA 1570: Game Design Analysis	3
	FDMA 1580: Game Design Fundamentals	3
	CSCI 1210: Computer Programming Fundamentals	3
Spring	**Course**	**Credits**
	FDMA 2112: Environmental Modeling	3
	FDMA 2530: Intro to 3D Modeling	3
	FDMA 2768: Intro to Game Development	3
Summer	**Course**	**Credits**
	FDMA 2720: 3D Animation	3
Fall	**Course**	**Credits**
	FDMA 2765: Anatomical Character Design	3
	FDMA 2775: Game Tools and Techniques	3
	FDMA 1993: Workshop	3
		Total Program Credit Hours = 30

- Meet with your Academic Success Coach
- Apply for FAFSA by October 1st
- Meet with Financial Aid Apply for scholarships
- Meet with your Faculty Mentor
- Apply for graduation and/or transfer

Career and Educational Advancement Opportunities

The Game Design and Simulation program provides the student with well-rounded art and programming knowledge and experience, leading the marketable skills that are the foundation in current game development careers, including game art, programming, design, and development. These courses can be applied towards a Gaming concentration in the UNM-Albuquerque Film and Digital Arts program.



*New Mexico data taken from O*Net Online United States Department of Labor database. Wages reflect annual income and are rounded to the nearest thousand dollars. income and are rounded to the nearest thousand dollars.*

For questions or to schedule a time to meet with an Advisor/Academic Success Coach about this program contact: Advisement at 505.925-8907. Map Current as of the 2026-2027 Academic Year.