

Computer Game and Simulation Development – Digital Arts Track A.A. (CGSA)

The degree is designed for students interested in the computer video game and simulation industries or related fields. Program work introduces students to core principles of game design, along with a strong foundation in the digital arts concepts and techniques necessary to create artistic assets. This degree can be used for transfer to a four-year institution or to prepare graduates for entry-level work in a variety of positions including, but not limited to, animator, 2D sprite artist, 3D modeler, texture artist, character rigger, game-environment designer, and user experience designer. Students utilize industry-standard software and game engines, produce game assets and animations, and gain practical experiences working with programming students in team environments to produce game and simulation projects. Effective project management techniques are used as games are developed collaboratively. Skills learned in this degree may be leveraged into other artistic careers or fields of study.

Upon successful completion of this program, graduates will be able to:

- transfer to a four-year college or university for further study.
- design engaging mechanics and systems for game projects.
- develop user experiences in a computer video game, from concept to completion, using two- and three-dimensional game engines in a team-based work environment using appropriate project management techniques.
- create visual artistic assets for use in computer game and simulation projects, often developed collaboratively with the programming track students.
- produce effective and efficient 3D models and textures for use in game projects.
- understand and implement the Principles of Animation, in both two- and three-dimensional animation.

Students should consult the catalog of the four-year college or university to which he or she plans to transfer to ensure that degree requirements are being properly met. Transfer information for this program is on file in the Transfer and University Center. For more information, contact an academic advisor or counselor.

First Semeste	r	Credits		
ART 107	Digital Design	3		
ART 110	Drawing I	3		
CIS 105	Introduction to Computers and	0		
	Applications	3		
CIS 112	Computational Thinking and	0		
010 112	Programming Logic	3		
ENG 105	Research and Composition	3		
		15		
Second Semester				
ART 118	2D Game and Simulation			
	Graphics	3.5		
ART 132	Principles of 3D Modeling and	0.0		
7111102	Texturing	3		
CIS 118	Game and Simulation	Ū		
	Programming Fundamentals	3.5		
CIS 133	User Experience Design	3		
ENG 106	Introduction to Literature	3		
		16		
Summer Seme	actor			
Elective	Humanities/Social Science	3		
		3		
Third Semeste				
ART 181	Advanced Modeling 3D Modeling			
	and Texturing	3.5		
ART 247	Introduction to Animation	3		
CIS 114	Introduction to Game Design	3		
CIS 180	Introduction to Project			
	Management	3		
Elective	Mathematics	3-4		
		15.5		
Fourth Semes	Fourth Semester			
ART 251	Character Rigging and Animation	on 3		
DMP 116	Sound Design for Animation	3		
Elective	Physics	4		
Elective	Humanities/Social Science	6		
		16		
	Credit Total	65.5		

Prior Learning Assessment: Previous job training, certificates and work experience that may qualify for college credit (*see academic advisor*).

Gateway Courses: Based on placement testing in reading, writing and math, these prerequisite courses may have to be taken before placement in College English or Mathematics beginning the first semester and concurrently.

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RSS	099	Basic Skills Reading	3
RSS	100	Critical Reading	3
ENG	099	Basic Skills Writing	3
ENG	100	Fundamentals of Writing	3
MAT	090	Mathematical Literacy	6
ESL	251	English for Academic Purpose	6
		(Required for ESL students only.)	

Please note, taking gateway courses will increase your time for completion.