



Computer Simulation and Gaming

ASSOCIATE DEGREE

Program Code: 10-153-1

Downtown Milwaukee Campus

Create a career in animation and gaming, plus attain skills transferable to other industries such as computer programming, multimedia development and film production. Students choose Programming, Design or Animation emphasis.

Program Learning Outcomes

- Create an animated asset for a product
- Build assets suitable for export and/or rendering to target platforms
- Apply fundamental artistic concepts to the 3D environment
- Implement project management skills

Admission Requirements

- A high school diploma or GED
- Demonstration of basic computer skills in OS, word processing and the internet
- Completion of CSG-100 Pre-Entry Evaluation



matc.edu/academic_programs/pathways

You can earn the Unity Developer technical diploma on your way to completing this associate degree.

 **MILWAUKEE AREA Technical College**
School of **MEDIA and CREATIVE ARTS**

TECHNICAL STUDIES (For All Emphases) Credits

(1) CSG-110	Introduction to Computer Simulation and Gaming ^.....	3
(1) CSG-115	CSG Production ^.....	3
(2) CSG-129	CSG Architecture ‡.....	2
(2) CSG-130	CSG Design ‡.....	3
(2) CSG-120	Interactive Display Production 1 ^.....	1
(2) CSG-121	Interactive Display Production 2 ^.....	1
(2) CSG-122	Interactive Display Production 3 ^.....	1
(3) CSG-181	CSG Collaborative Lab ‡.....	4
(4) VICOM-140	Internship ‡.....	1
(4) CSG-180	Multimedia Collaborative Lab ‡.....	3

Students choose one emphasis:

PROGRAMMING EMPHASIS

(1) CSG-117	Game Logic and Problem-Solving ^.....	3
(1) CSG-114	Introduction to Game Development Programming ^.....	3
(2) CSG-128	Intermediate Game Development Programming ^.....	3
(2) CSG-118	Game Engine Scripting ‡ ^.....	3
(3) CSG-179	CSG API Programming ‡ ^.....	4
(3) CSG-185	Data Structures for Game Developers ‡.....	3
(4) CSG-119	Interactive Simulation Displays ^.....	3
(4) CSG-132	Artificial Intelligence ‡.....	3

DESIGN EMPHASIS

(1) CSG-117	Game Logic and Problem-Solving ^.....	3
(1) CSG-131	Introduction to Game Design.....	3
(2) CSG-133	Intermediate Game Design ‡.....	3
(2) CSG-118	Game Engine Scripting ‡ ^.....	3
(3) CSG-138	Advanced Game Design ‡.....	3
(3) CSG-179	CSG API Programming ‡ ^.....	4
(4) CSG-119	Interactive Simulation Displays ^.....	3
(4) CSG-132	Artificial Intelligence ‡.....	3

ANIMATION EMPHASIS

(1) ANIM-104	Principles of Character Development.....	3
(1) ANIM-106	Principles of 3D Animation.....	3
(2) ANIM-120	Environment and Set Design ‡.....	3
(2) ANIM-125	3D Modeling ‡.....	4
(3) ANIM-140	Timeline Key Frames and Kinematics ‡.....	3
(3) ANIM-115	Refining the Character ‡.....	3
(4) ANIM-135	Character Expression and Lip Sync ‡.....	3
(4) ANIM-160	Animation Portfolio ‡.....	3

GENERAL STUDIES (For All Emphases)

ECON-195	Economics.....	3
	(or) Any 200-series ECON course	
ENG-151	Communication Skills 1 ‡.....	3
(&) ENG-152	Communication Skills 2 ‡.....	3
	(or) ENG-201‡ and any 200-series ENG or SPEECH course	

MATH-107	College Mathematics ‡ ^.....	3
	(or) Any 200-series MATH course	
NATSCI-167	Science of Technology.....	3
	(or) Any 200-series NATSCI course	
PSYCH-199	Psychology of Human Relations.....	3
	(or) Any 200-series PSYCH course	
SOCSCL-197	Contemporary American Society.....	3
	(or) Any 200-series HIST or SOCSCL course	

TOTAL CREDITS: 68

For complete information, go to matc.edu/media_creative_arts

To apply for financial aid, visit fafsa.gov
School Code: 003866

Related Programs

- Unity Developer
- Animation

(For full description, see matc.edu.)

() Semester order for full-time students.

‡ Prerequisite required.

^ Counts toward earning the Unity Developer technical diploma.

Program curriculum requirements are subject to change.

This Associate in Applied Science program will transfer to one or more four-year institutions.

Current MATC students should consult their Academic Program Plan for specific curriculum requirements.



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matc.edu or 414-297-MATC
Wisconsin Relay System 711

Downtown Milwaukee Campus

700 West State Street

Mequon Campus

5555 West Highland Road

Oak Creek Campus

6665 South Howell Avenue

West Allis Campus

1200 South 71st Street

MATC Education Center

at Walker's Square

816 West National Avenue, Milwaukee