

# B.S. Computer Animation & Game Development Game Development

## Four-Year Degree Plan

2022 - 2023 University Catalog

Total Units 120

CAGD Major Game Development Option	Units	GE & Electives	Units
Lower Division Core (LD)	12	General Education	48
Upper Division Core (UD)	9	Electives	6
Game Development Core (GD)	30	Other	
Game Selections (GD Select)	3		
Interdisciplinary (IP)	15	Double Counted	-3
Major Total Units	69	Other Total Units	51

Fall 2022				Spring 2023			
	Uni	CAGD	GE <sup>1</sup>		Uni	CAGD	GE <sup>1</sup>
CAGD 110	3	LD	C1	CAGD 112	3	LD	
CAGD 170	3	GD		CAGD 180	3	LD	
GE E	3		E	CAGD 270	3	GD	
GE A3	3		A3	GE A1	3		A1
GE B4	3		B4	GE A2	3		A2
Semester Total				Semester Total			
15				15			
Intersession 2023				Summer 2023			
Intersession Total				Summer Total			
0				0			
Fall 2023				Spring 2024			
CAGD 230	3	LD		CAGD 320	3	UD	
CAGD 280	3	GD		CAGD 370	3	GD	
IP 1	3	IP		IP 2	3	IP	
GE D	3		D	POLS 155	3		US Gov
HIST 130	3		HIST	GE C2	3		C2
Semester Total				Semester Total			
15				15			
Intersession 2024				Summer 2024			
Intersession Total				Summer Total			
0				0			
Fall 2024				Spring 2025			
CAGD 350	3	GD		CAGD 373	3	GD	
CAGD 375	3	GD	GW W	CAGD 374	3	GD	
IP 3	3	IP		CAGD 377	3	GD	
GE B1	3		B1	GE B2	3		B2
GE F	3		F	UD NS	3		UD NS
Semester Total				Semester Total			
15				15			
Intersession 2025				Summer 2025			
Intersession Total				Summer Total			
0				0			
Fall 2025				Spring 2026			
CAGD 495	3	UD		CAGD 470	3	GD	
Game Selec	3	GD Select		CAGD 489	3	UD	
IP 4	3	IP		IP 5	3	IP	
Elective	3	Elect		Elective	3	Elect	
UD AH	3		UD AH	UD SS	3		UD SS
Semester Total				Semester Total			
15				15			
Intersession 2026				Summer 2026			
Intersession Total				Summer Total			
0				0			

<sup>1</sup>General Education refer to GE planning sheet; one USD and one GC course needed to meet GE Diversity requirements.

### Computer Animation & Game Development Core

Course	Description	Units
CAGD Core (8 courses)		21
CAGD 110	Computer-Assisted Art I	3
CAGD 112	Digital Photography	3
CAGD 180	Scripting and Programming for Comp	3
CAGD 230	Digital Modeling	3
CAGD 320	Digital Texturing	3
CAGD 495	Advanced Production	3
CAGD 489/499	Internship or Special Prob	3
Total CAGD Core		21

### Game Development Option

Course	Description	Units
Required Courses (10 courses)		30
CAGD 170	Video Game Design	3
CAGD 270	Level Design	3
CAGD 280	Intro to Game Scripting	3
CAGD 350	3D Scanning	3
CAGD 370	Video Game Development	3
CAGD 373	Game Asset Production	3
CAGD 374W	Interactive Storytelling for Video Gam	3
CAGD 375W	Video Game Pre-Production	3
CAGD 377	Mobile Game Development	3
CAGD 470	Video Game Production	3
Game Development Technical Selections (3 units)		3
CAGD 325	Motion Capture	3
CAGD 330	3-D Computer Modeling	3
CAGD 358	Emerging Technologies in Media and	3
CAGD 380	Game Scripting	3
CAGD 495	Advanced Production	3
Total Game Development Option		33

### Interdisciplinary Program Selections

Course	Description	Units
IP Courses Selections (5 courses)		15
ARTH 110	Art History Survey: Prehistory to Medi	3
ARTH 120	Art History Survey: Renaissance to 14	3
ARTH 130	Art History Survey: 1800 to the Prese	3
ARTS 122	2D Design	3
ARTS 123	3D Design	3
ARTS 125	Basic Drawing	3
ARTS 126	Basic Life Drawing	3
ARTS 227	Introduction to Painting	3
ARTS 260	Introduction to Ceramics	3
ARTS 325	Intermediate Drawing	3
ARTS 326	Intermediate Life Drawing	3
ARTS 425	Advanced Drawing	3
ARTS 426	Advanced Life Drawing	3
CSCI 111	Programming and Algorithms I	4
CSCI 211	Programming and Algorithms II	4
MATH 217	Discrete Math	3
CSCI 311	Algorithms and Data Structures	4
CSCI 430	Software Engineering	3
CSCI 566	Computer Graphics Programming	3
CSCI 567	Mobile Application Development	3
CSCI 580	Artificial Intelligence	3
MADT 103W	Writing for Screen Media (W)	3
MADT 141	Media Aesthetics	3
MADT 216	Introduction to Digital Audio in Media	3
MADT 222	Basic Web Design	3
MADT 261	Foundations of Electronic Media	3
MADT 266	Field Video Production	3
MADT 283	Digital Fundamentals	3
MADT 314	Rich Internet Media Design I	3
MADT 322	Advanced Web Design	3
MADT 433	Human Factors	3
MADT 466	Studio Video Production	3
MADT 468	Video Production Workshop	3
THEA 112	Acting and Social Wellness	3
Total Interdisciplinary Electives Units		15

### B.S. Computer Animation & Game Development Game Development

Unit Summary	
CAGD Core Requirements	21
Game Development Option	30
Game Selections	3
Interdisciplinary	15
Foundation General Education	18
Lower Division General Education	15
Upper Division General Education	9
American Institutions	6
Double Counted CAGD 110 GE C1	-3
Electives	6
Total Degree	120

Fall 2022    Fall 2023    Fall 2024    Fall 2025    Spring 2026