

# B.S. Computer Animation & Game Development Animation Production - CGI

## Four-Year Degree Plan

2022 - 2023 University Catalog

Total Units 120

CAGD Major Animation Production Opt	Units	GE & Electives	Units
Lower Division Core (LD)	12	General Education	48
Upper Division Core (UD)	9	Electives	6
Animation Production Core (AP)	18	Other	
CGI Grouping (CGI)	15		
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	Computer-Assisted Art I	3	LD	C1	CAGD 117	Concept Design and Storyboarding	3	AP
CAGD 112	Digital Photography	3	LD		CAGD 180	Scripting and Programming for Computer	3	LD
GE E	Learning for Life	3		E	POLS 155	American Government: National, State, and Local	3	US Gov
GE A3	Critical Thinking	3		A3	GE A1	Oral Communications	3	A1
GE B3	Quantitative Reasoning	3		B4	GE A2	Written Communications	3	A2
Semester Total		15			Semester Total		15	
Intersession 2023				Summer 2023				
Intersession Total		0			Summer Total		0	
Fall 2023				Spring 2024				
CAGD 230	Digital Modeling	3	LD		CAGD 250	Intro Technical CGI	3	AP
CAGD 240	Digital Animation	3	AP		CAGD 320	Digital Texturing	3	UD
ARTS 125	Basic Drawing	3	IP		ARTS 126	Basic Life Drawing	3	IP
GE D	Social Sciences	3		D	GE B1	Physical Science	3	B1
HIST 130	United States History	3		HIST	GE C2	Humanities	3	C2
Semester Total		15			Semester Total		15	
Intersession 2024				Summer 2024				
Intersession Total		0			Summer Total		0	
Fall 2024				Spring 2025				
CAGD 330	3-D Computer Modeling	3	CGI		CAGD 331	3-D Character Modeling	3	CGI
CAGD 373	Game Asset Production	3	CGI		CAGD 350	3D Scanning	3	CGI
CAGD 345	Advanced Animation Pre-Production and	3	AP	GW W	IP 4	Interdisciplinary Program Selection	3	IP
IP 3	Interdisciplinary Program Selection	3	IP		GE B2	Life Science	3	B2
GE F	Ethnic Studies	3		F	UD NS	UD Science	3	UD NS
Semester Total		15			Semester Total		15	
Intersession 2025				Summer 2025				
Intersession Total		0			Summer Total		0	
Fall 2025				Spring 2026				
CAGD 420	Digital Lighting and Texturing	3	CGI		CAGD 493	Senior Portfolio	3	AP
CAGD 495	Advanced Production	3	UD		CAGD 495	Advanced Production	3	AP
IP 5	Interdisciplinary Program Selection	3	IP		CAGD 489	Internship or Special Prob	3	UD
Elective	Elective	3	Elect		Elective	Elective	3	Elect
UD AH	UD Arts & Humanities	3		UD AH	UD SS	UD Social Sciences	3	UD SS
Semester Total		15			Semester Total		15	
Intersession 2026				Summer 2026				
Intersession Total		0			Summer Total		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

### B.S. Computer Animation & Game Development Animation Production - CGI

Unit Summary	
CAGD Core Requirements	21
Animation Production Option CGI C	18
CGI Grouping	15
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

### Animation Production Option CGI Grouping

Course	Description	Units
Required Courses (6 courses)		18
CAGD 117	Concept Design and Storyboarding	3
CAGD 240	Digital Animation	3
CAGD 250	Intro Technical CGI	3
CAGD 345W	Advanced Animation Pre-Production	3
CAGD 493	Senior Portfolio	3
CAGD 495	Advanced Production	3
CGI Grouping Technical Selections (5 courses)		15
CAGD 330	3-D Computer Modeling	3
CAGD 331	3-D Character Modeling	3
CAGD 350	3D Scanning	3
CAGD 373	Game Asset Production	3
CAGD 420	Digital Lighting and Texturing	3
Total Animation Production Option CGI Grouping		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

Fall 2024 Spring 2025 Fall 2025

Fall 2023 CGI  
Spring 2024 CGI