

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

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	
Animation Grouping Selections (Animati	15		
Interdisciplinary (IP)	15	Double Counted	-3
Major Total Units	69	Other Total Units	51

Fall 2022				Spring 2023				
	Uni	CAGD	GE ¹		Uni	CAGD	GE ¹	
CAGD 110	Computer-Assisted Art I	3	LD	C1	CAGD 112	Digital Photography	3	LD
CAGD 117	Concept Design and Storyboarding	3	AP		CAGD 180	Scripting and Programming for Computer	3	LD
GE E	Learning for Life	3		E	POLS 155	American Government: National, State, and	3	US Gov
GE A3	Critical Thinking	3		A3	GE A1	Oral Communications	3	A1
GE B4	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 325	Motion Capture	3	Animation		CAGD 374	Interactive Storytelling for Video Games	3	Animation
CAGD 340	Computer Animation	3	Animation		CAGD 432	3-D Character Rigging	3	Animation
CAGD 345	Advanced Animation Pre-Production and	3	AP	GW W	ARTS 326	Intermediate Life Drawing	3	IP
THEA 112	Acting and Social Wellness	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 441	3-D Character Animation	3	Animation		CAGD 493	Senior Portfolio	3	AP
CAGD 495	Advanced Production	3	UD		CAGD 495	Advanced Production	3	AP
ARTS 426	Advanced Life Drawing	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	

¹General 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

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Unit Summary	
CAGD Core Requirements	21
Animation Production Option Anim:	18
Animation Grouping Selections	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 Animation 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
Animation Grouping Technical Selections (5 courses)		15
CAGD 325	Motion Capture	3
CAGD 340	Computer Animation	3
CAGD 374W	Interactive Storytelling for Video Gam	3
CAGD 432	3-D Character Rigging	3
CAGD 441	3-D Character Animation	3
Total Animation Production Option Animation 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 2022
Spring 2023
Spring 2023
Fall 2023
Spring 2024
Fall 2025
Spring 2026

Fall 2022
Fall 2023
Spring 2024
Fall 2024
Spring 2026
Spring 2026

Fall 2023
Spring 2024
Animation
Animation
Spring 2025
Animation
Fall 2025
Animation

Fall 2024
Animation