GAME DEVELOPMENT, BS

Campus: NYC, Westchester

Requirement	Credits
University Core Requirements	44-54
Major Requirements	55-63
Open Electives	1-12
Total Credits	120

UNIVERSITY CORE REQUIREMENTS (44-54 CREDITS)

See complete University Core (https://catalog.pace.edu/undergraduate/university-core-curriculum/) requirements.*

*Students pursuing a BS in Game Development are required to complete CS 121 Introduction to Computer Science from the Foundation Requirements.

MAJOR REQUIREMENTS (55-63 CREDITS)

Code	Title	Credits		
Game Development Core Required Courses (31 credits) 1				
CIS 151	Game Development for Everyone	3		
CS 255	Game Development Patterns and Algorithms	4		
CS 256	Game Design and Prototyping	4		
CS 355	Advanced Topics in Game Development	4		
CS 356	Mobile Game Development and Publishing	4		
CS 357	Augmented Reality (AR), Virtual Realtiy (VR), and the Metaverse	4		
CS 455	Game Engine Architecture	4		
CS 456	Game Development Capstone	4		
Computer Science Core Required Courses (12 credits) 1				
CS 113	Mathematical Structures for Computer Science	4		
CS 121	Introduction to Computer Science ²	4		
CS 122	Object-Oriented Programming	4		
CS 241	Data Structures and Algorithms	4		
Related Computing Electives (6-8 c	redits)			
Two (2) 300 level or higher Computer Science courses.				
CS Elective 1				
CS Elective 2				
Interdisciplinary Track (9-12 credits	3)			
Three courses from one track in Liberal Arts and Science (below):				
Communication and Media Studies Track (Choose 3 courses)				
CMS 113, CMS 226, CMS 228, CMS 244, CMS 291, CMS 296B				
Writing/English Track (Choose 3 courses):				
ENG 223, ENG 224, ENG 317, ENG 326F				
Film and Screen Studies Track (Choose 3 courses):				
FSS 203, FSS 215, FSS 237, FSS 317, FSS 323				
Literature Track (Choose 3 courses):				
LIT 213C, LIT 340, LIT 387D				
Math Track (Choose 3 courses):				
MAT 131, MAT 132, MAT 236, MAT 238, MAT 303				
Media and Communication Arts Tra	Media and Communication Arts Track (Choose 3 courses):			
MCA 112, MCA 220, MCA 226, MC	MCA 112, MCA 220, MCA 226, MCA 276, MCA 350			

Students must earn a grade of C or better in each prerequisite core.

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² Course is taken as part of the University Core Requirements.

OPEN ELECTIVES (1-12 Credits)

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Code	Title	Credits
Open Electives		
Select 1-12 credits		
Total Credits		1-12
Course	Title	Credits
First Year		
Fall		
CS 121	Introduction to Computer Science	4
MAT 104	Finite Mathematics	3
ENG 110	Composition	3
UNV 101	First-Year Seminar: Introduction to University Community	1
AOK 2 Course		3
AOK 4 Course		3
	Credits	17
Spring		
CS 122	Object-Oriented Programming	4
CIS 151	Game Development for Everyone	3
CS 113	Mathematical Structures for Computer Science	4
MAT 117	Elementary Statistics	4
	Credits	15
Second Year		
Fall		
CS 255	Game Development Patterns and Algorithms	4
CS 241	Data Structures and Algorithms	4
ENG 120	Critical Writing	4
Course Related to Track		3
	Credits	15
Spring		
CS 256	Game Design and Prototyping	4
ENG 201	Writing in the Disciplines	3
COM 200	Public Speaking	3
Course Related to Track	Table opening	3
AOK 3 Course		3
Act o occine	Credits	16
Third Year		10
Fall		
CS 355	Advanced Topics in Game Development	4
Related CS Elective (300 level or hig		4
Science	ner)	
Language 1		3
Language i	One dide	15
Carina	Credits	15
Spring	Makila Cama Davalanment and Dublishing	
CS 356	Mobile Game Development and Publishing	4
CS 357	Augmented Reality (AR), Virtual Realtiy (VR), and the Metaverse	4
AOK 5 Course		3
Language 2		3
	Credits	14

Fourth Year

Fall

	Total Credits	120
	Credits	14
AOK 4 Course		3
AOK 3 Course		3
LAS/Elective/Free (CE/WE	E/ARE)	4
CS 456	Game Development Capstone	4
Spring		
	Credits	14
AOK 2 Course (WE)		3
Course Related to Track		3
Related CS Elective (300 level or higher)		4
CS 455	Game Engine Architecture	4