## **Simulation and Game Development (A25450P) Programming**

## A.A.S. Degree (Full-Time) PROGRAM PLANNING GUIDE

Date Revised: Fall 2024

				Hours P	er Week	
				Class	Lab	Credits
FALL SE	ALL SEMESTER Prerequisites					
ENG	111	Writing and Inquiry	Take One Set: Set 1: DRE-097; Set 2: ENG-002; Set 3: BSP-4002; Corequisites: ENG-011	3	0	3
SGD	111	Introduction to SGD	None	2	3	3
SGD	113	SGD Programming I	MAT-003 and ENG-002 or ENG-111	2	3	3
SGD	116	SGD Graphic Design Tools	ENG-002 or ENG-111	2	3	3
		Social Science Elective		-	-	3

<b>SPRING S</b>	EMESTE	₹				
MAT	171	Precalculus Algebra	Take One Set: Set 1: DMA-010, DMA-020, DMA-030, MA-040, DMA-050; Set 2: DMA-010, DMA-020, DMA-030, DMA-045 Set 3: DMA-025, DMA-045; Set 4: DMA-025, DMA-040, DMA-050; Set 5: MAT 121; Set 6: MAT-003; Set 7: BSP-4003 Corequisites- MAT-071		2	4
SGD	112	SGD Design I	SGD-113	2	3	3
SGD	114	SGD 3D Modeling I	SGD-116	2	3	3
SGD	163	SGD Documentation	SGD-111 and ENG-002 or ENG-111	2	3	3
SGD	213	SGD Programming II	SGD-113; CSC-134 or CSC-151 or CSC-153	2	3	3

SUMMER SEMESTER							
COM	231	Public Speaking	None	3	0	3	
		Major Elective		-	-	3	

<b>FALL SEN</b>	FALL SEMESTER								
SGD	168	SGD Mobile Programming I	SGD-113	2	3	3			
SGD	174	SGD Level Design I	SGD-114	2	3	3			
SGD	212	SGD Design II	SGD-112 and SGD-113 and SGD-116	2	3	3			
		Program Elective		2	3	3			
		Major Elective		-	-	2			

<b>SPRING S</b>	SEMESTE	R				
PHY	151	College Physics I	MAT-171 or MAT-271	3	2	4
SGD	134	SGD Quality Assurance	SGD-112	2	2	3
SGD	158	SGD Business Management	ENG-111 and SGD-111 and SGD-112	3	0	3
SGD	285	SGD Software Engineering	SGD-212 and SGD-213	2	3	3
		Major Elective		-	-	2

<b>SUMMER</b>	SUMMER SEMESTER							
SGD	289	SGD Project	SGD-212, SGD-213, SGD-214, or SGD-285 and Take one Set: Set 1: Art Track: SGD-212, SGD-163, SGD-174, SGD-134 and SGD-172 or SGD-165; Set 2: Programming Track: SGD-212, SGD-163, SGD-174, SGD-134 and SGD-285	2	3	3		
		Humanities and Fine Arts Elective		-	-	3		

## **GRADUATION REQUIREMENT:**

Credit Hours 72

	General Education Electives								
			Hours P	er Week					
			Class	Lab	Credits				
Humaniti	es and Fin	e Arts Electives							
(choose 3	credit hrs	from the following courses)							
ART	111	Art Appreciation	3	0	3				
ENG	125	Creative Writing I	3	0	3				

HUM	110	Technology and Society		3	0	3
HUM	160	Introduction to Film		3	0	3
HUM	130	Myth in Human Culture		3	0	3
REL	110	World Religions		3	0	3
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Social Sci	ence Elect	tives				
(choose 3	credit hr	s from the following courses)				
ECO	151	Survey of Economics		3	0	3
HIS	111	World Civilizations I		3	0	3
PSY	150	General Psychology		3	0	3
SOC	210	Introduction to Sociology		3	0	3
		Pı	rogram Electives			
	minimur	n of 3 credit hrs from the following cour	ses)			
SGD	180	SGD HTML Programming I	SGD-113	2	3	3
SGD	235	SGD Game Console Programming	SGD-113 and co- or pre-req SGD-174	2	3	3
			ired Major Electives			
		n of 7 credit hrs from the following cour			_	
SGD	135	Serious Games	ENG-111 and SGD-112 and SGD-116	3	0	3
SGD	159	SGD Production Management	SGD-111	3	0	3
SGD	162	SGD 3D Animation I	SGD-114	2	3	3
SGD	167	SGD Ethics	ENG-111 and SGD-111	3	0	3
SGD	172	SGD Virtual Environments	SGD-113 and SGD-114	2	3	3
SGD	210	3D Data Capture	SGD-114 and SGD-162	2	3	3
SGD	237	Rigging 3D Models	SGD-114 and SGD-162	2	3	3
SGD	239	SGD Tech Art	SGD-113 and SGD-114	2	3	3
SGD	242	SGD Photogrammetry	SGD-114	2	3	3
SGD	262	SGD 3D Animation II	SGD-162	2	3	3
SGD	268	SGD Mobile Programming II	SGD-168	2	3	3
SGD	274	SGD Level Design II	SGD-174	2	3	3

SGD	288	ISCALI PARTIALIA MASIGN	State Co-Reqs - SGD-212 or SGD-213 or SGD- 214; Prereq - SGD-162 or SGD-285	1	2	2
WBL	111MG*	Work Based Learning I		0	10	1
WBL	112MG*	Work Based Learning II		0	20	2

<sup>\*</sup>WBL courses completed for one program may not count toward the completion of another program. For verification of WBL course work, please contact your academic advisor and/or your departmental Work-Based Learning faculty coordinator. The Work-Based Learning period may be taken over two semesters as WBL-112MG and WBL-121MG or over three semesters as WBL-111MG, WBL-121MG, and WBL-131MG.