2023 – 2024
Game Software Design
Bachelor of Science Degree
Academic Plan

Fall Year 1	Courses	Prerequisite(s)	Credits	
CIS 1110A	Computer Operating Systems and Maintenance		3	
COM 1010	Composition and Critical Thinking I		3	
CS 1110A	Programming in Python	Co-requisite(s): MTH 1010	3	
ELECTIVE	General Education Elective	As needed per choice	3	
MTH 1010	Quantitative Literacy		3	**15**
Spring Year 1	**Courses**	**Prerequisite(s)**	**Credits**	
CIS 2210	Database Management and Design	CS 1110A or CIS 1110A	3	
COM 1020	Composition and Critical Thinking II	COM 1010, MTH 1010	3	
CS 2150	C++ Programming	EGR2710 or CS 1110A, MTH 1110	3	
ELECTIVE	General Education Elective	As needed per choice	3	
WEB 1110	Introduction to HTML		3	**15**
Fall Year 2	**Courses**	**Prerequisite(s)**	**Credits**	
CS 2410	Java Programming	CS 1110A	3	
CS 3110	C# Programming	CS 2150	3	
ELECTIVE	Program Elective	As needed per choice	3	
MTH 1210	Trigonometry	MTH 1120	3	
PSY 2050	Self and Society	COM 1010, MTH 1010; Co-requisite: COM 1020	3	**15**
Spring Year 2	**Courses**	**Prerequisite(s)**	**Credits**	
CS 2420	Advanced Java Programming	CS 2410	3	
GSD 3010	Game Design and Analysis	CS 1110A	3	
GSD 3850	Game Development	CS 3110	3	
ELECTIVE	Program Elective	As needed per choice	3	
MTH 2410	Discrete Mathematics	MTH 1120 or MTH 1310	3	**15**
Fall Year 3	**Courses**	**Prerequisite(s)**	**Credits**	
CS 3210	Data Structures and Algorithms I	CS 2150	3	
GSD 4310	Unity Game Programming I	GSD 3850	3	
ELECTIVE	Program Elective	As needed per choice	3	
PPM 3010	Project Management	COM 1020	3	
SOC 3050	Personal, Civic, and Global Perspectives	COM 1020, MTH 1010, PSY 2050	3	**15**

Spring Year 3	Courses	Prerequisite(s)	Credits	
CS 3220	Data Structures and Algorithms II	CS 3210	3	
CS 4110	Artificial Intelligence	CS 3110, CS 3210	3	
GSD 3510	Android Mobile Application Development	GSD 3010	3	
GSD 4320	Unity Game Programming II	GSD 4310	3	
HUM 3910	Integrated Seminar	COM 1010, MTH 1010, PSY 2050, SOC 3050	3	**15**
Fall Year 4	**Courses**	**Prerequisite(s)**	**Credits**	
CS 3310	Application Security Practices	CS 2150	3	
ELECTIVE	Program Elective	As needed per choice	3	
GSD 3520	Advanced Android Mobile Application Development	GSD 3510	3	
GSD 3810	Unreal Game Programming I	GSD 4320	3	
ITS 3210	Legal and Ethical Issues in Information Technology	CIS 1110A or NET 1010	3	**15**
Spring Year 4	**Courses**	**Prerequisite(s)**	**Credits**	
GSD 3820	Unreal Game Programming II	GSD 3810	3	
GSD 4990	Senior Project in Game Software Development	GSD 4320	3	
ELECTIVE	Program Elective	As needed per choice	3	
ELECTIVE	Scientific Inquiry Elective	As needed per choice	3	
WRK 4850	CoIT Work Experience	Senior status	3	**15**
Program Total				**120**

Program Electives:

Select any 5 courses, with any of the following prefixes, to fulfill 15 Program Electives hours: CIS, CS, CSC, GSD, ITS, MNP, NET, PPM, WEB. Prerequisites need to be fulfilled for any elective courses.