2021 - 2022
Game Software Development
Bachelor of Science Degree
Academic Plan

Fall Year 1	Courses	Prerequisite(s)	Credit Hours	
CIS 1110A	Computer Operating Systems and Maintenance		3	
CS 1110	Introduction to Programming	Co-requisite(s): MTH 1010	3	
COM 1010	Composition and Critical Thinking I		3	**15**
MTH 1010	Quantitative Literacy		3	
MTH 1110	College Algebra I		3	

Spring Year 1	Courses	Prerequisite(s)	Credit Hours	
CIS 2210	Database Management and Design	CS 1110 or CIS 1110A	3	
COM 1020	Composition and Critical Thinking II	COM 1010, MTH 1010	3	
CS 2150	C++ Programming	EGR 2710 or CS 1110, MTH 1110	3	**15**
MTH 1120	College Algebra II	MTH 1110	3	
WEB 1110	Introduction to HTML		3	

Fall Year 2	Courses	Prerequisite(s)	Credit Hours	
CS 2410	Java Programming	CS 1110	3	
CS 3110	C# Programming	CS 2150	3	
ELECTIVE	Program Elective	As needed per choice	3	**15**
MTH 1210	Trigonometry	MTH 1120	3	
PSY 2050	Self and Society	COM 1010, MTH 1010; Co-requisite: COM 1020	3	

Spring Year 2	Courses	Prerequisite(s)	Credit Hours	
CS 2420	Advanced Java Programming	CS 2410	3	
CS 3010	Game Design and Analysis	COM 1020	3	
CS 3850	Game Development	CS 3110	3	**15**
ELECTIVE	Program Elective	As needed per choice	3	
MTH 2410	Introduction to Discrete Mathematics	MTH 1120 or MTH 1310	3	

Fall Year 3	Courses	Prerequisite(s)	Credit Hours	
CS 3210	Data Structures and Algorithms I	CS 2150	3	
CS 4110	Artificial Intelligence	CS 3110 or CS 3850	3	
CS 4310	Unity Game Programming I	CS 3850	3	**15**
ELECTIVE	Program Elective	As needed per choice	3	
SOC 3050	Personal, Civic, and Global Perspectives	COM 1020, MTH 1010, PSY 2050	3	

Spring Year 3	Courses	Prerequisite(s)	Credit Hours	
CS 3220	Data Structures and Algorithms II	CS 3210	3	
CS 3510	Introduction to Android Mobile SDK and Application Development	CS 3010	3	
CS 4320	Unity Game Programming II	CS 4310	3	**15**
ELECTIVE	Program Elective	As needed per choice	3	
PPM 3010	Project Management	COM 1020	3	

Fall Year 4	Courses	Prerequisite(s)	Credit Hours	
CS 3310	Application Security Practices	CS 2150	3	
CS 3520	Advanced Android Mobile Application Development	CS 3510	3	
CS 3810	Unreal Game Programming I	CS 4320	3	**15**
HUM 3910	Integrated Seminar	COM 1010, MTH 1010, PSY 2050, SOC 3050	3	
ITS 3210	Legal and Ethical Issues in Information Technology	CIS 1110A or NET 1010	3	

Spring Year 4	Courses	Prerequisite(s)	Credit Hours	
CS 3820	Unreal Game Programming II	CS 3810	3	
CS 4990	Senior Design Project in Game Software Development	CS 4320, HUM 3910	3	
ELECTIVE	Program Elective	As needed per choice	3	**15**
ELECTIVE	Scientific Inquiry Elective	As needed per choice	3	
WRKIT 4010	Work Experience	Senior status	3	

Program Total			120

Suggested Program Electives	Courses	Prerequisite(s)	Credit Hours
CIS 2210	Database Management and Design		3
CIS 2510	System Development Methods		3
CIS 3310	Cloud Computing and Security	CIS 2210	3
CIS 4950	Special Topics in Information Systems		3
CS 3410	Programming for Mobile Devices	CS 3110 or CS 2420	3
CS 4410	IoT Devices	NET 1010	3
ITS 2210	VPN Firewall	NET 1010	3
ITS 2310	LINUX I		3
PPM 3110	Project Planning	PPM 3010	3
ELECTIVE	Any CIS / CS / ITS / PPM / WEB course	As needed per choice	3

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