

# BS Computer Science - Game Development Track

Code	Title	Semester Hours
<b>BS in Computer Science with Cybersecurity Track Degree Plan (120 hours)</b>		
<b>Core Requirements (42 hours)</b>		
First Year Seminar		3
FYE 1301	First Year Seminar	
Freshmen Composition I		3
EN 1311	Rhetoric and Composition	
or EN 1313	Rhetoric and Composition for International Students	
Literature		3
Any EN 23XX literature course		
History		3
Any 1000, 2000, or 3000-level HS course		
Social Science		6
Select two from the following: BA 1301, CJ 1301, CPH 1301, EC 2301, EC 2303, ED 2330, HU 3300, HU 3303, PO 1311, PO 1313, PO 1314, PS 1301, PS 2333, PS 2355, PS 2363, PS 3337, SC 1311, SC 2321, SC 2371, 3 hrs. of Communication Studies (CM 1341, CM 2333, CM 2334) (SMC 1313 and SMC 2302 will meet this requirement) CM 1341 recommended for this major.		
Mathematics		
Satisfied by MT 2412 in the courses required for this major.		
Natural or Physical Sciences		3
Select one: BL 1301, BL 1302, BL 3311, CH 1303, CH 1401, CH 1402, ES 1300, ES 1301, ES 1302, ES 1303, ES 1304, ES 1305, ES 1373, PY 1300, PY 1310, PY 1401, PY 1402 (SMC 1312 will meet this requirement)		
Fine Arts		3
AR 1300, AR 1301, AR 1311, AR 1312, or AR 2301 is recommended		
Foreign Language and International Engagement		6
This requirement is satisfied through one of four ways: (1) One 3-hour course in any language at the 3000 level or above, with a grade of B or better; (2) Two courses (1311 and 1312) in a language not previously studied; (3) Two courses (2311 and 2312) in a language previously studied at the high school or college level; (4) Qualifying scores on an AP or CLEP exam, or both the ACTFL OPI and WPT exams		
Philosophy - Self		3
PL 1301	Intro to Philosophy	
(SMC 1311 will meet this requirement)		
Philosophy - Ethics		3
PL 2301	Foundations of Ethics	
(SMC 2301 will meet this requirement)		
Theology - God		3
TH 1301	Introduction to Theology	
(SMC 1314 will meet this requirement)		
Intermediate Theology		3
Any TH 33xx course		
<b>Computer Science Major Courses (42 hours)</b>		
CS 1310	Programming I	3
CS 1311	Programming II	3
CS 2110	Sophomore CS Seminar	1
CS 2313	Object Oriented Programming I	3
CS 2315	Algorithms	3
CS 2323	Object Oriented Programming II	3
CS 2350	Computer Architecture	3
CS 3110	Junior CS Seminar	1
CS 3310	Intro to Systems Analysis and Design	3
CS 3335	Survey of Programming Languages	3

CS 3340	Software Engineering	3
CS 3350	Operating Systems	3
CS 4110	Senior CS Seminar	1
CS 4320	Files & Databases	3
CS 4330	Computer Networks	3
CS 4395	Senior Project	3

**Mathematics Minor (17 hours)**

MT 2412	Calculus I	4
MT 2318	Applied Linear Algebra	3
MT 2323	Discrete Math Structures	3
MT 2413	Calculus II	4
MT 4331	Probability Theory	3

**Data Science TraGame Development Track (12 hours)**

CS 4335	Game Development	3
---------	------------------	---

Game Development Electives (2 courses)

Game Development Electives include CS 4315 AI / CS4325 eLearning and Gamification / CS4375 Adv. Topics (with a game related project) 6

**Electives (10 hours) 10**

An elective can be any course taken from any discipline. Students can use these hours to pursue certificates, minors, or second majors.

Total Semester Hours 120

**First Year**

Fall	Semester Hours	Spring	Semester Hours
FYE 1301		3 Literature	3
EN 1311		3 CM 1341	3
Elective		3 CS 1311	3
MT 2412		4 MT 2413	4
CS 1310		3 Fine Arts	3
		16	16

**Second Year**

Fall	Semester Hours	Spring	Semester Hours
CS 2315		3 CS 2323	3
PL 1301		3 PL 2301	3
Foreign Language		3 CS 2350	3
CS 2313		3 Foreign Language	3
MT 2323		3 MT 2318	3
CS 2110		1	
		16	15

**Third Year**

Fall	Semester Hours	Spring	Semester Hours
History		3 Advanced Theology	3
TH 1301		3 CS 3340	3
CS 4335 Game Development or Game Development Elective*		3 CS 4330	3
CS 3310		3 MT 4331	3
CS 4320		3 Game Development Elective*	3
CS 3110		1	
		16	15

**Fourth Year**

<b>Fall</b>	<b>Semester Hours</b>	<b>Spring</b>	<b>Semester Hours</b>
Natural / Physical Science		3 Social Science	3
Game Development Elective* or CS 4335		3 CS 4395	3
CS 3350		3 Elective (recommend Physics, PY 1404)	3
CS 4110		1 Elective	3
CS 3335		3 Elective	1
		13	13
<b>Total Semester Hours 120</b>			