B.A. in Computer Science with Teacher Certification

Click on the course number to view course title and description.

Code	Title	Semester Hours
BA in Computer Science with Teacher Certification Degree Plan (120 hours)		
Core Requirements (39 hours)		
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 1310, CJ 1301, CPH 1301, EC 2301, EC 2303, HU 3300, HU 3303, PO 1311, PO 1312, PO 1314, PS 1301, PS 2310, PS 2353, PS 2355, PS 2363, PS 2337, SC 1311, SC 2321, SC 2371, 3 hrs. of Communication Studies (CM 1341, CM 2321, CM 2333, CM 2334)		
Mathematics		
Satisfied by MT 2303 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		
Fine Arts		3
Select any 3 hrs. of the following: Art (AR), Drama (DM), Music (MU) or MU 1300		
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	Introduction to Philosophy	
Philosophy - Ethics		3
PL 2301	Foundations of Ethics	
Theology - God		3
TH 1301	Introduction to Theology	
Intermediate Theology		3
Any TH 33xx course		
Computer Science Major Courses (45 hours)		
MT 2323	Discrete Math Structures	3
CS 1310	Programming I in C	3
CS 1311	Data Structures	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 3320	Files and Database	3
CS 3330	Computer Networks	3
CS 3340	Software Engineering	3
CS 3350	Operating Systems	3
CS 4110	Senior CS Seminar	1
CS 4385	Programming Projects	3
Teaching Certification (27 hours)		
ED 3302	The American Secondary School	3
ED 3361	Adolescent Development in the School Setting	3
ED 2330	Teaching Diverse Populations	3
ED 3355	Educational Technology	3
ED 3362	Teaching-Learning and Secondary Methods	3
ED 3350	Reading - Teaching Reading in the Secondary Content Areas	3
ED 4388	Professional Development Seminar-Secondary	3
ED 4689	Student Teaching-Secondary	6
Electives (9 hours)		**9**
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**

This is a recommended degree plan subject to changes. Please meet with your adviser on a regular basis.

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First Year

Fall	Semester Hours	Spring	Semester Hours
MT 2303/2306/1411 statistics or precalculus	3	Social Science	3
FYE 1301	3	Literature	3
EN 1311	3	CS 1311	3
Elective	3	MT 2323	3
CS 1310	3	Fine Arts	3
	15		**15**

Second Year

Fall	Semester Hours	Spring	Semester Hours
CS 2315	3	Foreign Language	3
PL 1301	3	CS 2323	3
CS 2313	3	CS 2350	3
CS 2110	1	Natural or Physical Sciences	3
History	3	PL 2301	3
Foreign Language	3		
	16		**15**

Third Year

Fall	Semester Hours	Spring	Semester Hours
CS 3110	1	Advanced Theology	3
CS 3310	3	CS 3330	3
CS 3320	3	CS 3340	3
ED 3302	3	ED 2330	3
ED 3361	3	ED 3355	3
TH 1301	3		
	16		**15**

Fourth Year

Fall	Semester Hours	Spring	Semester Hours
Elective	3	CS 4385	3
Elective	3	ED 4388	3
CS 3350	3	ED 4689	6
CS 4110	1		
ED 3362	3		
ED 3350	3		
	16		**12**

Total Semester Hours 120