

# B.A. in Computer Science with Teacher Certification

Code	Title	Semester Hours
<b>St. Mary's University Core <sup>1</sup></b>		
SMC 1301	Foundations of Civilization	3
SMC 1311	Foundations of Reflection:Self	3
SMC 1312	Foundations of Reflection: Nature	3
SMC 1313	Foundations of Reflection: Others	3
SMC 1314	Foundations of Reflection: God	3
SMC 2301	Foundations of Practice: Ethics	3
SMC 2302	Foundations of Practice: Civic Engagement and Social Action	3
SMC 2303	Foundations of Practice:Fine Arts and Creative Process	3
SMC 2304	Foundations of Practice: Literature	3
SMC 4301	Capstone Seminar: Prospects for Community & Civilization	3
<b>School of Science, Engineering, and Technology Specific Core</b>		
Speech		3
Select one of the following:		
CM 1341	Fundamentals of Oral Communication	
CM 2333	Business and Professional Communication	
CM 3391	Argumentation and Debate	
Rhetoric & Composition <sup>2</sup>		3
EN 1311	Rhetoric and Composition	
Foreign Languages		6
Select one of the following:		
6 hours at the sophomore level (2311, 2312) in a Foreign Language previously studied for a minimum of one year		
6 hours of introductory level (1311, 1312) in a Foreign Language not previously studied		
12 hours of CLEP/AP credit		
History/Social Science		3
ED 3330	Teaching Diverse Populations	
Theology		3
Select one of the following:		
Advanced Theology TH 33XX/43XX		
HU 3300	Perspectives and Themes in History, Philosophy and/or Theology	
Fine Arts/Literature		3
Select one AR, DM, MU or any EN 23XX literature course		
<b>BA Computer Science Courses</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 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
MT 1303	College Algebra	3
MT 2306	Business Statistics	3
MT 3323	Discrete Math Structures	3

**Professional Development Courses**

ED 3302	The American Secondary School	3
ED 3350	Reading-- Teaching Reading in the Secondary Content Areas	3
ED 3361	Adolescent Development in the School Setting	3
ED 3362	Teaching-Learning and Secondary Methods	3
ED 4388	Professional Development Seminar-Secondary	3
ED 4689	Student Teaching-Secondary	6

**Proficiency in Information Technology and Information Literacy**

For this major, this requirement will be fulfilled by coursework in this degree plan.

Total Semester Hours	120
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<sup>1</sup> All St. Mary's Core SMC 13XX "Reflection" courses must be completed before registering for SMC 23XX "Practice" courses.

<sup>2</sup> Grade of "C" or better is required. International students may be required to take EN 1313 to fulfill this requirement.

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

**First Year**

Fall	Semester Spring Hours	Semester Hours
SMC 13XX	3 SMC 13XX	3
EN 1311	3 SMC 13XX	3
Foreign Language	3 Foreign Language	3
CS 1310	3 CS 1311	3
MT 1303	3 MT 2306	3
ND 0101	0	
	15	15

**Second Year**

Fall	Semester Spring Hours	Semester Hours
SMC 13XX	3 SMC 23XX	3
SMC 13XX	3 Speech	3
CS 2110	1 Advanced Theology	3
CS 2313	3 Fine Arts/English Literature	3
CS 2315	3 CS 2323	3
MT 3323	3 CS 2350	3
	16	18

**Third Year**

Fall	Semester Spring Hours	Semester Hours
SMC 23XX	3 SMC 23XX	3
SMC 23XX	3 CS 3340	3
CS 3110	1 CS 4330	3
CS 3310	3 ED 3330	3
CS 3350	3 ED 3361	3
ED 3302	3	
	16	15

**Fourth Year**

<b>Fall</b>	<b>Semester Spring Hours</b>	<b>Semester Hours</b>
SMC 4301	3 ED 4388	3
CS 4110	1 ED 4689	6
CS 4320	3 CS 4395	3
ED 3350	3	
ED 3362	3	
	13	12

Total Semester Hours 120