

B.S. in Computer Science

Code	Title	Semester Hours
St. Mary's University Core ¹		
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
School of Science, Engineering, and T echnology Specific Core		
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 ²		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
Select one of the following:		
Any HS course		
BA 1310	Fundamentals of Business Enterprise	
CJ 1301	Introduction to Criminal Justice	
CJ 3300	Adjudication of Social Issues	
EC 2301	Introductory Macroeconomic Theory	
EC 2303	Introductory Microeconomic Theory	
MN 3330	Organizational Behavior	
PO 1311	American National Government	
PO 1312	Texas State & Local Government	
PO 1314	Introduction to Global Affairs	
PS 1301	General Psychology	
PS 3386	Human Factors	
SC 1311	Introductory Sociology	
SC 3321	Social Issues	
HU 3300	Perspectives and Themes in History, Philosophy and/or Theology	
HU 3303	Perspectives and Themes in Social Science	
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

BS Computer Science Courses

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
Advanced Computer Science CS 33XX/43XX		3

Math Minor Courses

MT 2412	Calculus I	4
MT 2413	Calculus II	4
MT 3323	Discrete Math Structures	3
MT 3324	Linear Algebra	3
Advanced Mathematics MT 3XXX/43XX		3

Electives

An elective can be any course taken from any discipline. 7

Proficiency in Informati on Technology and Information Literacy

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

Total Semester Hours 120

¹ All St. Mary's Core SMC 13XX "Reflection" courses must be completed before registering for SMC 23XX "Practice" courses.

² 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
CS 1310	3 Speech	3
MT 2412	4 CS 1311	3
ND 0101	0 MT 2413	4
	13	16

Second Year

Fall	Semester Spring Hours	Semester Hours
SMC 13XX	3 SMC 13XX	3
Foreign Language	3 Foreign Language	3
CS 2110	1 CS 2323	3
CS 2313	3 CS 2350	3
CS 2315	3 MT 3324	3

MT 3323	3	
	16	15

Third Year

Fall	Semester Hours	Spring Hours	Semester Hours
SMC 23XX	3	SMC 23XX	3
SMC 23XX	3	SMC 23XX	3
Fine Arts/Literature	3	CS 3340	3
CS 3110	1	CS 4330	3
CS 3310	3	Math Elective 33XX or 43XX	3
CS 3350	3		
	16		15

Fourth Year

Fall	Semester Hours	Spring Hours	Semester Hours
Advanced Theology	3	SMC 4301	3
History/Social Science	3	CS 4395	3
CS 3335	3	Elective	3
CS 4110	1	Elective	3
CS 4320	3	Elective	1
Advanced Computer Science	3		
	16		13

Total Semester Hours 120

First Year

Fall	Semester Hours	Spring Hours	Semester Hours
ND 0101	0	CS 1311	3
CS 1310	3	MT 2413	4
MT 2412	4	Speech	3
EN 1311	3	SMC 13XX	3
SMC 13XX	3	SMC 13XX	3
	13		16

Second Year

Fall	Semester Hours	Spring Hours	Semester Hours
CS 2110	1	CS 2323	3
CS 2313	3	CS 2350	3
CS 2315	3	MT 3324	3
MT 3323	3	SMC 13XX	3
SMC 13XX	3	Foreign Language	3
Foreign Language	3		
	16		15

Third Year

Fall	Semester Hours	Spring Hours	Semester Hours
CS 3110	1	CS 3340	3
CS 3310	3	CS 4330	3
CS 3350	3	MT 4331	3
CS 4335	3	Game Development Elective	3
SMC 23XX	3	SMC 23XX	3
SMC 23XX	3		
	16		15

Fourth Year

Fall	Semester Spring Hours	Semester Hours
CS 3335	3 CS 4395	3
CS 4110	1 Fine Arts or Literature	3
CS 4320	3 Advanced Theology	3
SMC 23XX	3 History or Social Science	3
SMC 4301	3 Elective	3
Game Development Elective	3	
	16	15

Total Semester Hours 122

First Year

Fall	Semester Spring Hours	Semester Hours
ND 0101	0 CS 1311	3
CS 1310	3 MT 2413	4
MT 2412	4 Speech	3
EN 1311	3 SMC 13XX	3
SMC 13XX	3 SMC 13XX	3
	13	16

Second Year

Fall	Semester Spring Hours	Semester Hours
CS 2110	1 CS 2323	3
CS 2313	3 CS 2350	3
CS 2315	3 MT 3324	3
MT 3323	3 SMC 13XX	3
SMC 13XX	3 Foreign Language	3
Foreign Language	3	
	16	15

Third Year

Fall	Semester Spring Hours	Semester Hours
CS 3110	1 CS 3340	3
CS 3310	3 CS 4330	3
CS 3350	3 MT 4331	3
Cybersecurity Elective	3 CS 4362	3
SMC 23XX	3 SMC 23XX	3
SMC 23XX	3	
	16	15

Fourth Year

Fall	Semester Spring Hours	Semester Hours
CS 3335	3 CS 4395	3
CS 4110	1 Cybersecurity Elective	3
CS 4320	3 Fine Arts or Literature	3
Cybersecurity Elective	3 History or Social Science	3
SMC 23XX	3 SMC 4301	3
Advanced Theology	3	
	16	15

Total Semester Hours 122

Code	Title	Semester Hours
Cybersecurity Electives:		
CS 4314	Software Security	
CS 4361	Computer Network Security	
CS 4363	Cloud Computing Security	
CS 4364	Digital Forensics and Cyber Crime	
CS 4365	Preparation for Security Certification	
CS 4367	Cybersecurity Risk Management	
CS 4368	Cybersecurity Policy and Law	
CS 4369	Cryptography Principles and Practice	