Saint Louis University
School of Accountancy, Management, Computing and Information Studies (SAMCIS)

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSCS)

Effective Academic Year 2025-2026

	COURSE NO.	DESCRIPTIVE TITLE	UNITS	CO / PRE-REQUISITES
FIRST YEAR	***1st Semester***			
	CS 111	Introduction to Computing	2	
	CS 111L	Introduction to Computing (Lab)	1	
	CS 112	Computer Programming 1	2	
	CS 112L	Computer Programming 1 (Lab)	1	
	CS 113	Discrete Structures	3	
	GMATH	Mathematics in the Modern World	3	
	GCORDI	Cordillera: History and Socio-Cultural Heritage	3	
	GHIST	Readings in Philippine History	3	
	FIT HW	Physical Activity Towards Health and Fitness (Health and Wellness)	2	
	CFE 101	God's Journey with His People	3	
		TOTAL	**23**	
	2nd Semester			
	CS 121	Mathematics for Computer Science	3	CS 113, CS 112
	CS 122	Computer Programming 2	2	CS 112
	CS 122L	Computer Programming 2 (Lab)	1	CS 112
	CS 123	Architecture and Organization	2	CS 112
	CS 123L	Architecture and Organization (Lab)	1	CS 112
	GSELF	Understanding the Self	3	
	GPCOM	Purposive Communication	3	
	GART	Art Appreciation	3	
	FIT CS	Physical Activity Towards Health and Fitness (Combative Sports)	2	
	CFE 102	Christian Morality in Our Times	3	
		TOTAL	**23**	
	Short Term			
	CS 131	Software Modeling and Analysis	3	CS 111, CS 122
	CS 132	Technology-Assisted Presentation and Communication	3	CS 111
	CS 133	Automata and Formal Languages	3	CS 112, CS 113
		TOTAL	**9**	
SECOND YEAR	***1st Semester***			
	CS 211	Data Structures & Algorithm	2	CS 122
	CS 211L	Data Structures & Algorithm (Lab)	1	CS 122
	CS 212	Information Management	2	CS 131, CS 122
	CS 212L	Information Management (Lab)	1	CS 131, CS 122
	CS 213	Structure of Programming Languages	3	CS 122, CS 133
	GSTS	Science, Technology, and Society	3	
	GENTREP	The Entrepreneurial Mind	3	
	NSTP-CWTS 1	Foundations of Service	3	
	FIT OA	Physical Activity Towards Health and Fitness (Outdoor and Adventure Activities)	2	
	CFE 103	Catholic Foundation of Mission	3	
		TOTAL	**23**	
	2nd Semester			
	CS 221	Operating Systems	2	CS 211
	CS 221L	Operating Systems (Lab)	1	CS 211
	CS 222	Computer Programming 3	2	CS 211
	CS 222L	Computer Programming 3 (Lab)	1	CS 211
	CS 223	Software Engineering	3	CS 212
	GETHICS	Ethics	3	
	GCWORLD	The Contemporary World	3	
	NSTP-CWTS 2	Social Awareness and Empowerment for Service	3	NSTP-CWTS 1
	FIT AQ	Physical Activity Towards Health and Fitness (Aquatics)	2	
	CFE 104	CICM Missionary Identity	3	CFE 103
		TOTAL	**23**	
	Short Term			
	CS 231	Computer Networks	2	CS 221
	CS 231L	Computer Networks (Lab)	1	CS 221
	GRIZAL	The Life and Works of Rizal	3	
	GENVI	Environmental Science	3	
		TOTAL	**9**	

	COURSE NO.	DESCRIPTIVE TITLE	UNITS	CO / PRE-REQUISITES
THIRD YEAR	***1st Semester***			
	CS 311	Applications Development	2	CS122, CS 222
	CS 311L	Applications Development (Lab)	1	CS 122, CS 222
	CS 312	Web Systems Development	2	CS 212, CS 223
	CS 312L	Web Systems Development (Lab)	1	CS 212, CS 223
	CS 313	Methods of Research in Computer Science	3	CS 212
	CS 314	Algorithms Analysis	3	CS 222
	CS 315	Human Computer Interaction	3	CS 223
	CS 316	Numerical Methods	3	CS 121
	CFE 105A	CICM in Action: Justice, Peace, and Integrity of Creation, Indigenous Peoples, and Interreligious Dialogue	1.5	CFE 103, CFE 104
		TOTAL	**19.5**	
	2nd Semester			
	CS 321	Data Science	2	CS 222, CS 223
	CS 321L	Data Science (Lab)	1	CS 222, CS 223
	CS 322	Artificial Intelligence	2	CS 321, CS 212
	CS 322L	Artificial Intelligence (Lab)	1	CS 321, CS 212
	CS 323	Social and Personal Development in the ICT Workplace	3	CS 111
	CS 324	Professional Practice and Cyberethics	3	CS 323 co-requisite
	CS 325	CS Thesis 1	3	3rd year standing
	CSE	Elective 1	3	3rd year standing
	CFE 105B	CICM in Action:Environmental Planning and Management and Disaster Risk Reduction Management	1.5	CFE 105A
		TOTAL	**19.5**	
	Short Term			
	CSE	Elective 2	3	3rd year standing
	CSE	Elective 3	3	3rd year standing
		TOTAL	**6**	
FOURTH YEAR	***1st Semester***			
	CFE 106A	Embracing the CICM Mission	1.5	CFE 105B
	FOR LANG 1	Foreign Language 1	3	
	CS 411	Information Assurance and Security	3	CS 324
	CS 412	Distributed Computing	3	CS 324
	CS 413	CS Thesis 2	3	CS 325
	CSE	Elective 4	3	4th year standing
		TOTAL	**16.5**	
	2nd Semester			
	CFE 106B	Embracing the CICM Mission	1.5	CFE 106A
	CS 331	Practicum	6	4th year standing
		TOTAL	**7.5**	
	TOTAL UNITS : 179			

	COURSE NO.	DESCRIPTIVE TITLE	UNITS	CO / PRE-REQUISITES
CS ELECTIVES	CSE 10	Advanced Computer Architecture	3	3rd year standing
	CSE 11	Advanced Operating Systems	2 / 1	3rd year standing
	CSE 12	Advanced Networking and Communications	2 / 1	3rd year standing
	CSE 13	Advanced Information Management	3	3rd year standing
	CSE 14	Advanced Software Engineering	3	3rd year standing
	CSE 15	Data Mining	2 / 1	3rd year standing
	CSE 16	Operations Research	3	3rd year standing
	CSE 17	Machine Learning	3	3rd year standing
	CSE 18	Compiler Design	3	3rd year standing
	CSE 19	Advanced Security Concepts	3	3rd year standing
	CSE 20	Multimedia Systems	2 / 1	3rd year standing
	CSE 21	Advanced Applications Development	2 / 1	3rd year standing
	CSE 22	Computer Graphics	2 / 1	3rd year standing
	CSE 23	Game Design and Development	2 / 1	3rd year standing
	CSE 24	UX Design and Concepts	3	3rd year standing
	CSE 25	Field Trips and Seminars	3	3rd year standing
	CSE 26	System Resource Management	3	3rd year standing
	CSE 27	Current Trends 1	3	3rd year standing
	CSE 28	Current Trends 2	3	3rd year standing
	CSE 29	Special Topics 1	3	3rd year standing
	CSE 30	Special Topics 2	3	3rd year standing
	CSE 31	Information Technology Certification Review	3	3rd year standing
	CSE 32	Natural Language Processing	3	3rd year standing
	CSE 33	Simulation and Modeling	2 / 1	3rd year standing

RETENTION POLICY:

Computer Science Students who failed or dropped more than 45% of their semestral load will not be allowed to pursue their BS Computer Science course at SLU.