

PROGRAM CATALOG





SLU VISION-MISSION

"Saint Louis University is envisioned as an excellent missionary and transformative educational institution zealous in developing human resources imbued with Christian Spirit and who are creative, competent and socially involved."

SCHOOL VISION-MISSION

The School of Accountancy, Management, Computing and Information Studies (SAMCIS) is envisioned as the center of excellence in Business, Management, and Information Technology Education, committed to the creative, competent, and Christian formation of individuals, who can be agents of progress in the changing local and international business and information technology environments.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

Three to five years after graduation, graduates of the BS in Computer Science Program are expected to:

- 1. formulate innovative solutions to complex computing problems and requirements using the principles of research, mathematics and computing sciences;
- 2. engage in corporate and community-based advocacies that address social problems to positively impact the society;
- 3. contribute to the advancement of the computer science discipline by augmenting existing domain knowledge; and
- 4. exemplify Christian values in the practice of one's computing profession while working ethically and with integrity.

PROGRAM LEARNING OUTCOMES (PLO)

Graduates of the BS in Computer Science program are expected to:

- 1. integrate knowledge of computing, science, mathematics and other domains in the appreciation of the Computer Science discipline;
- 2. solve real-world computing problems within constraints of time, cost and resources by employing critical thinking skills;
- 3. apply mathematical foundations, algorithmic principles and computer science theories in the modeling and design of computer-based systems;
- 4. evaluate solutions and systems for complex computing problems with considerations on public health and safety, cultural, societal and environmental impact;
- 5. utilize the appropriate tools, techniques and resources in the provision of computing solutions;
- 6. communicate effectively knowledge and ideas to the computing community and society at large across a wide range of contexts and media;
- 7. function effectively as an accountable individual and as a team player in a multicultural and multidisciplinary environment;
- 8. act in accordance with social, legal, and ethical responsibilities as CS professional, with recognition of the local and global impact of technology to individuals, organizations and society;
- 9. adapt to new and emerging technologies in the pursuit of continuing professional growth; and
- 10. practice Christian, Louisian and Filipino values in their personal and professional endeavors and actively participate in the service of the community.



CURRICULUM

Course No.	Course Descriptive Title	Units	Pre-requisite		
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			
GART	Art Appreciation	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 UNITS	23			
Course No.	Course Descriptive Title	Units	Pre-requisite		
Short Term CS 131 CS 132					
CS 131	Software Modeling and Analysis	3	CS 111		
CS 132	Mathematics for Computer Science	3			
	TOTAL UNITS	6			
Course No.	Course Descriptive Title	Units	Pre-requisite		
2nd Semeste	r		•		
CS 121	Digital Logic Design	3	CS 111		
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			
GENVI	Environmental Science	3			
FIT CS	Physical Activity Towards Health and Fitness (Combative Sports)	2			
CFE 102	Christian Morality in Our Times	3			
	TOTAL LINITS	22			

Course No.	Course Descriptive Title	Units	Pre-requisite
1st Semester			
CS 211	Data Structures	2	CS 112, CS 113,
	240 01000100	_	CS 212 (co-requisite) CS 112, CS 113
CS 211L	Data Structures (Lab)	1	CS 112, CS 113, CS 212 (co-requisite)
CS 212	Operating Systems	2	CS 123, CS 211 (co-requisite)
CS 212L	Operating Systems (Lab)	1	CS 123, CS 211L (co-requisite)
CS 213	Human Computer Interaction	3	CS 122
GSTS	Science, Technology, and Society	3	00 122
GRVA	Reading Visual Art	3	
		_	
NSTP-CWTS 1	Foundations of Service	3	
FIT OA	Physical Activity Towards Health and Fitness (Outdoor and Adventure	2	
CFE 103	Catholic Foundation of Mission	3	
	TOTAL UNITS	23	
Course No.	Course Descriptive Title	Units	Pre-requisite
Short Term	Course Descriptive Title	Units	Pre-requisite
CS 231	Computer Networks	2	CS 212
CS 231L	Computer Networks (Lab)	1	CS 212
GRIZAL	The Life and Works of Rizal	3	63212
GENTREP	The Entrepreneurial Mind	3	
OLIVINEI	TOTAL UNITS	9	
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Course No.	Course Descriptive Title	Units	Pre-requisite
2nd Semester			
		2	CS 211
CS 221	Information Management		00211
CS 221 CS 221L	Information Management (Lab)	1	CS 211
		_	
CS 221L	Information Management (Lab)	1	CS 211
CS 221L CS 222	Information Management (Lab) Computer Programming 3	1 2	CS 211
CS 221L CS 222 CS 222L	Information Management (Lab) Computer Programming 3 Computer Programming 3 (Lab)	1 2	CS 211 CS 122 CS 122
CS 221L CS 222 CS 222L CS 223	Information Management (Lab) Computer Programming 3 Computer Programming 3 (Lab) Automata and Formal Languages Ethics The Contemporary World	1 2 1 3	CS 211 CS 122 CS 122
CS 221L CS 222 CS 222L CS 223 GETHICS	Information Management (Lab) Computer Programming 3 Computer Programming 3 (Lab) Automata and Formal Languages Ethics	1 2 1 3 3 3	CS 211 CS 122 CS 122
CS 221L CS 222 CS 222L CS 223 GETHICS GCWORLD	Information Management (Lab) Computer Programming 3 Computer Programming 3 (Lab) Automata and Formal Languages Ethics The Contemporary World Social Awareness and Empowement for	1 2 1 3 3 3 3 3	CS 211 CS 122 CS 122 CS 132
CS 221L CS 222 CS 222L CS 223 GETHICS GCWORLD NSTP-CWTS 2	Information Management (Lab) Computer Programming 3 Computer Programming 3 (Lab) Automatia and Formal Languages Ehics The Contemporary World Social Awareness and Empowement for Service	1 2 1 3 3 3 3 3 3	CS 211 CS 122 CS 122 CS 132

	Course No.	Course Descriptive Title	Units	Pre-requisite
	1st Semester			
	CS 311	Applications Development	2	CS 122
	CS 311L	Applications Development (Lab)	1	CS 122
	CS 312	Web Systems Development	2	CS 211
	CS 312L	Web Systems Development (Lab)	1	CS 211
	CS 313	Software Engineering	3	CS 131, CS 221
	CS 314	Social and Personal Development in the ICT Workplace	3	CS 111, GSELF
	CS 315	Technology-Assisted Presentation and Presentation	3	CS 111, GPCOM
	CSM 316	Numerical Methods for Computer Science	3	CS 132
	CFE 105A	CICM in Action: Justice, Peace, and Integrity of Creation, Indigenous Peoples, and Interreligious Dialogue	1.5	CFE 103, CFE 104
Ä		TOTAL UNITS	19.5	
Ξ	Course No.	Course Descriptive Title	Units	Pre-requisite
₽				
=	Short Term			1 To Toquisito
Ē	Short Term CS 331		6	
Ē	CS 331	Practicum TOTAL UNITS	6	4th year standing
Ī	CS 331	Practicum TOTAL UNITS	6	4th year standing
Ē	CS 331 Course No.	Practicum	_	
Ħ	CS 331 Course No. 2nd Semester	Practicum TOTAL UNITS Course Descriptive Title	6 Units	4th year standing Pre-requisite
臣	CS 331 Course No. 2nd Semester CS 321	Practicum TOTAL UNITS Course Descriptive Title Artificial Intelligence	6 Units	4th year standing Pre-requisite CS 132, CS 211
臣	CS 331 Course No. 2nd Semester CS 321 CS 322	Practicum TOTAL UNITS Course Descriptive Title Artificial Intelligence Data Science	6 Units	4th year standing Pre-requisite CS 132, CS 211 CS 221
崖	CS 331 Course No. 2nd Semester CS 321 CS 322 CS 322L	Practicum TOTAL UNITS Course Descriptive Title Artificial Intelligence Data Science Data Science (Lab)	G Units	4th year standing Pre-requisite CS 132, CS 211 CS 221 CS 221
崖	CS 331 Course No. 2nd Semester CS 321 CS 322 CS 322L CS 323	Practicum TOTAL UNITS Course Descriptive Title Artificial Intelligence Data Science Data Science (Lab) Modeling and Simulation	6 Units	4th year standing Pre-requisite CS 132, CS 211 CS 221 CS 221 CS 221 CS 132, CS 211
里	CS 331 Course No. 2nd Semester CS 321 CS 322 CS 322L	Practicum TOTAL UNITS Course Descriptive Title Artificial Intelligence Data Science Data Science (Lab)	3 2 1 2	4th year standing Pre-requisite CS 132, CS 211 CS 221 CS 221
HT.	CS 331 Course No. 2nd Semester CS 321 CS 322 CS 322L CS 323 CS 323L	Practicum TOTAL UNITS Course Descriptive Title Artificial Intelligence Data Science (Lab) Modeling and Simulation Modeling and Simulation (Lab) Methods of Research in Computer	3 2 1 2	4th year standing Pre-requisite CS 132, CS 211 CS 221 CS 221 CS 132, CS 211 CS 132, CS 211
置	CS 331 Course No. 2nd Semester CS 321 CS 322 CS 322L CS 323 CS 323L CS 324	Practicum TOTAL UNITS Course Descriptive Title Artificial Intelligence Data Science Data Science (Lab) Modeling and Simulation Modeling and Simulation (Lab) Methods of Research in Computer Science	3 2 1 2 1 3	4th year standing Pre-requisite CS 132, CS 211 CS 221 CS 221 CS 132, CS 211 CS 132, CS 211 3rd year standing
THIRD YEAR	CS 331 Course No. 2nd Semester CS 321 CS 322 CS 322L CS 323 CS 323L CS 324 CS 325	Practicum TOTAL UNITS Course Descriptive Title Artificial Intelligence Data Science Data Science (Lab) Modeling and Simulation Modeling and Simulation (Lab) Methods of Research in Computer Science Structure of Programming Languages CICM in Action:Environmental Planning and Management and Disaster Risk	6 Units 3 2 1 2 1 3 3	4th year standing Pre-requisite CS 132, CS 211 CS 221 CS 221 CS 132, CS 211 CS 132, CS 211 3rd year standing CS 211

	Course No.	Course Descriptive Title	Units	Pre-requisite
	1st Semester			
	CFE 106A	Embracing the CICM Mission	1.5	CFE 105B
	CS 411	CS Thesis 1	3	CS 324
	CS 412	Information Assurance and Security	3	core courses
	CS 413	Professional Practice and Cyberethics	3	GETHICS, CS 231
œ	CSE	Elective 1	3	3rd year standing
Ψ¥	CSE	Elective 2	3	3rd year standing
Ŧ		TOTAL UNITS	16.5	
室	Course No.	Course Descriptive Title	Units	Pre-requisite
-OUR	Course No. 2nd Semester	Course Descriptive Title	Units	Pre-requisite
FOUR		Course Descriptive Title Embracing the CICM Mission	Units 1.5	Pre-requisite CFE 106A
FOUR	2nd Semester			
FOUR	2nd Semester CFE 106B	Embracing the CICM Mission	1.5	CFE 106A
FOURTH YEAR	2nd Semester CFE 106B CS 421	Embracing the CICM Mission CS Thesis 2	1.5	CFE 106A CS Thesis 1
FOUR	2nd Semester CFE 106B CS 421 CS 422	Embracing the CICM Mission CS Thesis 2 Distributed Computing	1.5	CFE 106A CS Thesis 1
FOUR	2nd Semester CFE 106B CS 421 CS 422 FOR LANG 1	Embracing the CICM Mission CS Thesis 2 Distributed Computing Foreign Language 1	1.5 3 3	CFE 106A CS Thesis 1 4th year standing

CS Electives

		Units	
		Lec/	
Course No.	Course Description	Lab	Pre-Req.
CSE 10	Advanced Computer Architecture	3	3rd year standing
CSE 11	Advanced Operating Systems	2/1	3rd year standing
CSE 12	Advanced Networking and	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	Design and Analysis of Algorithms	3	3rd year standing
CSE 17	Operations Research	3	3rd year standing
CSE 18	Machine Learning	3	3rd year standing
CSE 19	Compiler Design	3	3rd year standing
CSE 20	Advanced Security Concepts	3	3rd year standing
CSE 21	Multimedia Systems	2/1	3rd year standing
CSE 22	Advanced Applications Development	2/1	3rd year standing
CSE 23	Computer Graphics	2/1	3rd year standing
CSE 24	Game Design and Development	2/1	3rd year standing
CSE 25	UX Design and Concepts	3	3rd year standing
CSE 26	Field Trips and Seminars	3	3rd year standing
CSE 27	System Resource Management	3	3rd year standing
CSE 28	Current Trends 1	3	3rd year standing
CSE 29	Current Trends 2	3	3rd year standing
CSE 30	Special Topics 1	3	3rd year standing
CSE 31	Special Topics 2	3	3rd year standing
CSE 32	Information Technology Certification	3	3rd year standing

ADMISSION POLICIES

Saint Louis University welcomes local and foreign students alike, subject to University admission Policies, requirements, and academic standards and pertinent laws of the Republic of the Philippines

Undergraduate Freshman Students

• All undergraduate freshman applicants must pass the SLU College Entrance Examination (SLU-CEE) and must qualify within the slots duly determined for their chosen course. The regular SLU-CEE is conducted during weekends from the middle of October up to the middle of December. Admission for the first semester starts at the middle of April.

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Transfer Students

• SLU admits transferees in all courses except Bachelor in Medical Laboratory Science subject to their compliance with pertinent requirements and guidelines. They must undergo a Qualifying Examination (QE) and if qualified, will take the Personality Test and Interview. Foreign students applying as transferee are subject to the English Proficiency Test (EPT) rule.

Graduate Program Students

- The applicant must have finished the prerequisite degree/s prior to acceptance to the Graduate Program;
- For a Master's degree, the applicant must have a Baccalaureate degree from an institution of recognized standing
- For a Doctorate degree, the applicant must have a Master's degree in related fields from an institution of recognized standing.

Foreign Students

- Foreign students should apply not later than 6 months before the start of the academic term. Moreover, they should be in Baguio City at least 4 weeks before the start of classes of the academic term for them to take the EPT as well as SLU-CEE / QE / GPEE, and Personality Test.
- Foreign students applying for the first time either in the undergraduate or graduate program should initially possess satisfactory proficiency in English and have passed the EPT as well as the pertinent entrance examination and Personality Test. Before enrolling, they undergo Preadmission Processing at the Student Affairs Office.
- Foreign students must secure a valid Student Visa. There are two options in securing a Student Visa. For related information, consult Foreign Student section of the Registrar's Office.

SCHEDULE OF FEES

FIRST YEAR TUITION FEE AS OF AY 2022 - 2023			
COURSE	PARTIAL	FULL	
BS COMSCI	P 17,800.00	P 37,90600	
FEES LISTED PER SEMESTER AND ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE			



JOB OPPORTUNITIES (WHERE DOES THE PROGRAM TAKE YOU?)

- Web Developer
- Computer Programmer
- Information Security Analyst
- Database Administrator
- Software Developer
- Software Engineer
- Computer Forensic Analyst

CONTACT INFO

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