

# **INFORMATION TECHNOLOGY**

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## **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 Information Technology Program are expected to:

1. demonstrate knowledge and skills in the work environment, utilizing current trends in information technology, and adapting effectively to the fast-paced developments in the field;
2. exemplify Christian values in the practice of one's profession while working ethically and with integrity;
3. apply creative skills to advance one's profession through innovative research works or projects that forward sustainable development goals and contribute to the advancement of lifelong learning; and
4. participate actively in formulating solutions to computing problems that impact one's immediate social milieu or the society at large by implementing emerging frameworks and technologies.

## **PROGRAM LEARNING OUTCOMES (PLO)**

Graduates of the BS Information Technology program are expected to:

1. manifest understanding of computing, mathematical and scientific concepts related to the IT discipline;
2. use the appropriate tools, technologies and best practices in addressing the IT-related needs of an organization or community;
3. assess technical and user requirements in the analysis of given computing problems and provide an IT solution suitable to the problem domain;
4. implement an IT solution that applies current standards, tools and technologies while taking into account user needs, the technical environment and best practices;
5. communicate effectively knowledge and ideas to the computing community and society at large across a wide range of contexts and media;
6. function effectively as an accountable individual and as a team player in a multicultural and multidisciplinary environment;
7. act in accordance with ethical, legal, and social responsibilities as an IT professional, with recognition of the local and global impact of technology to individuals, organizations and society;
8. adapt to emerging technologies in the pursuit of continuing professional growth; and
9. 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
<b>1st Semester</b>			
IT 111	Introduction to Computing	2	
IT 111L	Introduction to Computing (Lab)	1	
IT 112	Computer Programming 1	2	
IT 112L	Computer Programming 1 (Lab)	1	
IT 113	Discrete Mathematics	3	
GART	Art Appreciation	3	
GSELF	Understanding the Self	3	
GHIIST	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	
<b>TOTAL UNITS</b>		<b>23</b>	
Course No.	Course Descriptive Title	Units	Pre-requisite
<b>Short Term</b>			
IT 131	Computer Architecture	2	IT 112
IT 131L	Computer Architecture (Lab)	1	IT 112
GRIZAL	The Life and Works of Rizal	3	
<b>TOTAL UNITS</b>		<b>6</b>	
Course No.	Course Descriptive Title	Units	Pre-requisite
<b>2nd Semester</b>			
IT 121	Information System Fundamentals	3	IT 111
IT 122	Computer Programming 2	2	IT 112
IT 122L	Computer Programming 2 (Lab)	1	IT 112
IT 123	Platform Technologies	2	IT 111
IT 123L	Platform Technologies (Lab)	1	IT 111
GMATH	Mathematics in the Modern World	3	
GPCOM	Purposive Communication	3	
GCWORLD	The Contemporary World	3	
FIT CS	Physical Activity Towards Health and Fitness (Combative Sports)	2	
CFE 102	Christian Morality in Our Times	3	
<b>TOTAL UNITS</b>		<b>23</b>	

Course No.	Course Descriptive Title	Units	Pre-requisite
<b>1st Semester</b>			
IT 211	Requirements Analysis and Modeling	3	IT 121
IT 212	Data Structures	2	IT 113, IT 122
IT 212L	Data Structures (Lab)	1	IT 113, IT 122
IT 213	Network Fundamentals	2	IT 131, IT 123
IT 213L	Network Fundamentals (Lab)	1	IT 131, IT 123
GSTS	Science, Technology, and Society	3	
GENVI	Environmental Science	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	
<b>TOTAL UNITS</b>		<b>23</b>	
Course No.	Course Descriptive Title	Units	Pre-requisite
<b>Short Term</b>			
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
GETHICS	Ethics	3	
<b>TOTAL UNITS</b>		<b>9</b>	
Course No.	Course Descriptive Title	Units	Pre-requisite
<b>2nd Semester</b>			
IT 221	Information Management	2	IT 212
IT 221L	Information Management (Lab)	1	IT 212
IT 222	Integrative Technologies	2	IT 212
IT 222L	Integrative Technologies (Lab)	1	IT 212
IT 223	Human Computer Interaction	3	IT 212
GENTREP	The Entrepreneurial Mind	3	
GRVA	Reading Visual Art	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
<b>TOTAL UNITS</b>		<b>23</b>	

Course No.	Course Descriptive Title	Units	Pre-requisite
<b>1st Semester</b>			
IT 311	Applications Development	2	IT 122
IT 311L	Applications Development (Lab)	1	IT 122
IT 312	Web Technologies	2	IT 212
IT 312L	Web Technologies (Lab)	1	IT 212
IT 313	Software Engineering	3	IT 211, IT 221
IT 314	Social and Professional Issues in Information Technology	3	GETHICS, IT 231
IT 315	Technopreneurship	3	GENTREP, IT 211
ITE	Elective 1	3	3rd year standing
CFE 105A	CICM in Action: Justice, Peace, and Integrity of Creation, Indigenous Peoples, and Interreligious Dialogue	1.5	CFE 103, CFE 104
<b>TOTAL UNITS</b>		<b>19.5</b>	
Course No.	Course Descriptive Title	Units	Pre-requisite
<b>Short Term</b>			
IT 331	Information Assurance and Security	3	core courses
ITE	Elective 3	3	3rd year standing
<b>TOTAL UNITS</b>		<b>6</b>	
Course No.	Course Descriptive Title	Units	Pre-requisite
<b>2nd Semester</b>			
IT 321	IT Project 1	3	3rd year standing
IT 322	Data Analytics	2	IT 221
IT 322L	Data Analytics (Lab)	1	IT 221
IT 323	System Administration and Maintenance	2	IT 213
IT 323L	System Administration and Maintenance (Lab)	1	IT 213
IT 324	System Integration and Architecture	3	IT 211, IT 222
IT 325	Field Trips and Seminars	3	3rd year standing
ITE	Elective 2	3	3rd year standing
CFE 105B	CICM in Action: Environmental Planning and Management and Disaster Risk Reduction Management	1.5	CFE 105A
<b>TOTAL UNITS</b>		<b>19.5</b>	

Course No.	Course Descriptive Title	Units	Pre-requisite
<b>1st Semester</b>			
IT 411	IT Project 2	3	IT 321
IT 412	IT Resource Management	3	IT 313, IT 324
FOR LANG 1	Foreign Language 1	3	
ITE	Elective 4	3	3rd year standing
ITE	Elective 5	3	3rd year standing
CFE 106A	Embracing the CICM Mission	1.5	CFE 105B
<b>TOTAL UNITS</b>		<b>16.5</b>	
Course No.	Course Descriptive Title	Units	Pre-requisite
<b>2nd Semester</b>			
IT 421	Practicum	9	4th year standing
CFE 106B	Embracing the CICM Mission	1.5	CFE 106A
<b>TOTAL UNITS</b>		<b>10.5</b>	

Course No.	Course Description	Units Lec / Lab	Pre-Req.
<b>CS Electives</b>			
ITE 10	Advanced Information Management	3	3rd year standing
ITE 11	Advanced Networking	2 / 1	3rd year standing
ITE 12	Advanced System Administration	3	3rd year standing
ITE 13	Advanced Web Technologies	2 / 1	3rd year standing
ITE 14	UX Concepts and Design	3	3rd year standing
ITE 15	IT Security Management	3	3rd year standing
ITE 16	Data Warehousing	3	3rd year standing
ITE 17	Data Mining	2 / 1	3rd year standing
ITE 18	Advanced Applications Development	2 / 1	3rd year standing
ITE 19	Knowledge Management	3	3rd year standing
ITE 20	IT Project Planning and Management	3	3rd year standing
ITE 21	Advanced Software Engineering	3	3rd year standing
ITE 22	Graphics Technologies	2 / 1	3rd year standing
ITE 23	Electronic Commerce	3	3rd year standing
ITE 24	Mobile Computing	2 / 1	3rd year standing
ITE 25	Intelligent Systems	3	3rd year standing
ITE 26	Current Trends 1	3	3rd year standing
ITE 27	Current Trends 2	3	3rd year standing
ITE 28	Special Topics 1	3	3rd year standing
ITE 29	Special Topics 2	3	3rd year standing
ITE 30	Information Technology Certification Review	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.

### 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 / GPPE, 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
BSIT	P 17,800.00	P 31,706.00
FEES LISTED PER SEMESTER AND ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE		



## **JOB OPPORTUNITIES (WHERE DOES THE PROGRAM TAKE YOU?)**

- Applications Developer
- Technical Support
- Network Engineer
- Business Analyst
- Information and cybersecurity
- Database administration

## **CONTACT INFO**

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