

De La Salle-College of Saint Benilde

Bachelor of Science in Information Systems

Program Specification

Awarding Institution	De La Salle-College of Saint Benilde
School	School of Management and Information Technology
Program Accreditation	PAASCU Level 1 Accredited
Name of Final Award	Bachelor of Science in Information Systems (BS-IS)
Program Title	Bachelor of Science in Information Systems (BS-IS)
Description of the Program	<p>The BS Information Systems Program includes the study of application and effect information technology to organizations. Graduates of the program should be able to implement an information system, which considers complex technological and organizational factors affecting it. These include components, tools, techniques, strategies, methodologies, etc.</p> <p>Graduates to help an organization determine how information and technology-enabled business processes can be used as strategic tool to achieve a competitive advantage. As a result, IS professionals require a sound understanding of organizational principles and practices so that they can serve as an effective bridge between the technical and management/users communities within an organization.</p> <p>This enables them to ensure that organization has the information and the systems it need to support its operations.</p>

Expected Program Learning Outcomes

Upon completion of the **BACHELOR OF SCIENCE IN INFORMATION SYSTEMS**, students are expected to:

- PO1. Apply system analysis and design concepts through various data gathering methodologies, standard convention and modelling languages to create a software documentation.
- PO2. Create dynamic and secured web and mobile using software development tools and industry-standard frameworks applications to meet system requirements.
- PO3. Adapt a project management integration framework guided by professional, ethical, and legal best practices in the community to ensure that projects are executed on time and within budget.

Admission Requirements

All students must pass the **Benildean Entrance Exam (BEE)**. The information regarding application, admission timetable, and application results may be viewed at **Benilde Admissions Center**. Downloadable forms and school brochures are available from this site.

Applicants applying to any degree or non-degree program offered by DLS-CSB are expected to provide a complete medical disclosure of past or present conditions that may have an effect on student learning and their intention to be a member of the Benildean community.

Program Overview

Upon the completion of Bachelor of Science in Information System, the learners are expected to:

	Units
CHED GE Core Courses	52
DLS-CSB Institutional Courses	19
IT Education Common Courses	18
IS Professional Courses	66
IS Capstone Project	9
Practicum	6
IS Elective Courses	12

Elective Tracks:

Information Security
Data Science
Extreme Programming

<p>Curriculum and Program Structure</p>	<p>The curriculum and program structure are outlined in the program checklist. The curriculum map shows the alignment between the courses in the program and the program outcomes.</p>
<p>Teaching and Learning Strategy, Assessment</p>	<p>DLS-CSB espouses and promotes learner-centered parameters. A balance of theory and practice is achieved through lecture courses combined with laboratory courses/sessions and application sites such as the teaching hotel, training restaurants and training travel agency unit.</p> <p>Various assessment strategies are used such as class discussion, written and oral examinations, return demonstration, journal submission, reflective essay, assignment, seatwork, case study analysis, portfolio submission, final project and individual/group report.</p>
<p>Date of Revision</p>	<p>AY 2018-2019</p>

PROGRAM CHECKLIST

Bachelor of Science in Information Systems

Term 1

Course Code	Course Title	Units	Pre-requisite	Co-requisite
INCOMPU	Introduction to Computing	3		
FUNDSYS	Fundamentals of Information Systems	3		
ITINFRA	IT Infrastructure	3		
UNDESELF	Understanding the Self	3		
MATWRLD	Mathematics in the Modern World	3		
CRITHNK	Critical and Creative Thinking	3		
PEONEPF	Physical Fitness	2		
CSBLIFE	College of Saint Benilde Student Life	(3)		

Term 2

Course Code	Course Title	Units	Pre-requisite	Co-requisite
FUNPROG	Fundamentals of Programming	3		
ISDBASE	Database Concepts	3	FUNDSYS	
PROFISS	Professional Issues in IS	3		
BUSPROC	Business Processes	3		
PURPCOM	Purposive Communication	3		
BIBCHUR	Bible and Church	3		
PETWODA	Dance	2		
NSTP-01	National Service Training Program-01	(3)		

Term 3

Course Code	Course Title	Units	Pre-requisite	Co-requisite
APPDEVT	Application Development	3		
INTEPRO	Intermediate Programming	3	FUNPROG	
DSTALGO	Data Structures and Algorithms	3	ISDBASE	
LEADMGT	Organization and Management Concepts	3		
SCITECH	Science, Technology and Society	3		
MARFAMI	Marriage and Family Life	3		
PETRIID	Individual / Dual Sports	2		
NSTP-02	National Service Training Program-02	(3)	NSTP-01	

Term 4

Course Code	Course Title	Units	Pre-requisite	Co-requisite
APPINTR	Intermediate Application Development	3	APPDEVT	
ENTPROG	Enterprise Development	3	INTEPRO	
INFOMGT	Information Management	3	INFOMGT	
BUSSFIN	Business Finance	3		
SYSANDE	Systems Analysis and Design	3	BUSPROC	
REEXSPI	Religious Experience and Spirituality	3		
PEFORTS	Team Sports	2		

Term 5

Course Code	Course Title	Units	Pre-requisite	Co-requisite
APPADVC	Advanced Application Development	3	APPINTR	
WEBDEVT	Web Development	3		
MANSTRA	Strategic Management & Business Policy	3		
PROJMGT	Project Management	3		
ARTAPRI	Art Appreciation	3		
INTEFIL	Interaktibong Filipino sa Multidisiplinaryong Larangan	3		

Term 6

Course Code	Course Title	Units	Pre-requisite	Co-requisite
ISELEC1	IS Elective 1	3		
MOBDEVT	Mobile Development	3		
HUMANCI	Human Computer Interaction	3		
ENTARCH	Enterprise Architecture	3	PROJMGT	
CONWORL	Contemporary World	3		
FILDISI	Filipino sa Iba't-Ibang Disiplina	3		

Term 7

Course Code	Course Title	Units	Pre-requisite	Co-requisite
ISELEC2	IS Elective 2	3		
ISRSRCH	Applied Learning Research	3		
DESPTRN	Design Patterns	3		
QUANT-T	Quantitative Techniques in Business	3		
IETHICS	Ethics	3		
JORIZAL	Life and Works of Rizal	3		

Term 8

Course Code	Course Title	Units	Pre-requisite	Co-requisite
ISELEC3	IS Elective 3	3		
ISPROJ1	Information Systems Project 1	3	ISRSRCH	
SOFTTEST	Principles of Software Testing	3		
BUSEVAL	Evaluation of Business Performance	3		
LITEPOP	Literature and Popular Culture	3		
HISTORY	Philippine History	3		

Term 9

Course Code	Course Title	Units	Pre-requisite	Co-requisite
ISELEC4	IS Elective 4	3		
ISPROJ2	Information Systems Project 2	3	ISPROJ1	
ISENTRP	IS Technopreneurship	3		
ASEANST	ASEAN Studies	3		
CSBGRAD	College of Saint Benilde Graduating Students	(1)	CSBLIFE	

Term 10

Course Code	Course Title	Units	Pre-requisite	Co-requisite
ISPRACT	Practicum for Information Systems	6		

CURRICULUM MAP

Bachelor of Science in Information Systems

IT Education Common Courses		PO1	PO2	PO3
1	Introduction to Computing	✓	✓	
2	Fundamentals of Programming		✓	
3	Intermediate Programming		✓	✓
4	Data Structures and Algorithms		✓	
5	Information Management	✓	✓	✓
6	Application Development		✓	
IS Professional Courses		PO1	PO2	PO3
7	Fundamentals of Information Systems	✓	✓	✓
8	Professional Issues in IS	✓	✓	✓
9	IT Infrastructure		✓	
10	Systems Analysis and Design	✓		
11	Enterprise Architecture	✓	✓	
12	Database Concepts	✓	✓	
13	Intermediate Application Development		✓	
14	Advanced Application Development		✓	
15	Enterprise Development		✓	
16	Human Computer Interaction		✓	
17	Mobile Development		✓	
18	Web Development		✓	
19	Design Patterns		✓	
20	Principles of Software Testing		✓	
21	Business Finance	✓		✓
22	Business Process Management			✓
23	Evaluation of Business Performance	✓		
24	Quantitative Method	✓		
25	Project Management			✓
26	Strategic Management and Business Policy	✓		✓
27	IS Technopreneurship			✓
28	Organization and Management Concepts			✓

	Capstone and Practicum	PO1	PO2	PO3
1	Applied Learning Research	✓	✓	✓
2	Information Systems Project 1	✓	✓	✓
3	Information Systems Project 2	✓	✓	✓
4	Practicum for Information Systems	✓	✓	✓

	IS Elective Courses	PO1	PO2	PO3
	Information Security Track			
	Information Security	✓	✓	✓
	IT Audit and Controls	✓	✓	✓
	Digital Forensics	✓	✓	✓
	Secured Programming	✓	✓	✓
	Data Science Track			
	Fundamentals of Business Analytics	✓	✓	✓
	Data Administration and Optimization	✓	✓	✓
	Fundamentals of Big Data	✓	✓	✓
	Data Visualization	✓	✓	✓
	Extreme Programming Track			
	IOS Mobile Development	✓	✓	✓
	Android Mobile Development	✓	✓	✓
	Embedded Systems	✓	✓	✓
	Artificial Intelligence	✓	✓	✓