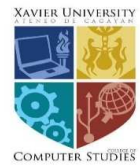




XAVIER UNIVERSITY - ATENEO DE CAGAYAN
COLLEGE OF COMPUTER STUDIES
Department of Computer Science



Xavier University
ATENEO DE CAGAYAN

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSCS)

Curriculum Effective SY 2018-2019

FIRST YEAR									
Course Code	Descriptive Title	Units			Hours per week			Pre-requisite	
		Total	Lec	Lab	Total	Lec	Lab		
First Semester									
CC 10	Introduction to Computing	3	3		3	3		None	
CC 11	Computer Programming 1	3	2	1	5	2	3	None	
ENGL 1	Written Communication Skills Enhancement	3	3		3	3		None	
HIST 1	Readings in Philippine History	3	3		3	3		None	
IFP 1	Ignatian Formation Program	(1)	(1)		(1)	(1)			
MATH 4	Mathematics in the Modern World	3	3		3	3		None	
NSTP 1	National Service Training Program 1	3	3		3	3		None	
PE 11	PATH-FIT 1: Movement Competency Training	2	2		2	2		None	
RS 10	A Religious Quest	3	3		3	3		None	
TOTAL		23	22	1	25	22	3		
Second Semester									
CC 12	Computer Programming 2	3	2	1	5	2	3	CC 11	
CC 13	Data Structures and Algorithms	3	3		3	3		CC 11	
ENGL 2	Oral Communication Skills Enhancement	3	2	1	5	2	1	None	
FIL 67/IDE 10	Wika, Kultura at Lipunan/Interdisciplinary Elective 1	3	3		3	3		None	
NSTP 2	National Service Training Program 2	3	3		3	3		NSTP 1	
PE 12	PATH-FIT 2: Fitness Training	2	2		2	2		None	
PSY 1	Understanding the Self	3	3		3	3		None	
STS 10	Science, Technology, and Society	3	3		3	3		None	
TOTAL		23	21	2	27	21	4		
SECOND YEAR									
Course Code	Descriptive Title	Units			Hours per week			Pre-requisite	
		Total	Lec	Lab	Total	Lec	Lab		
First Semester									
CC 14	Database Systems and Information Management	3	2	1	5	2	3	CC 13	
CSCC 11	Discrete Structures 1	3	3		3	3		CC 10	
CSCC 14	Programming Languages	3	3		3	3		CC 12	
CSCC 34	Modeling and Simulation	3	3		3	3		CC 12	
CSCC 20	Object Oriented Programming	3	2	1	5	2	3	CC 12	
FIL 77/IDE 20	Sinesosyedad/Pelikulang Panlipunan/Interdisciplinary Elective 2	3	3		3	3		None	
PE 13	PATH-FIT 3: Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor and Adventure Activities	2	2		2	2		None	
SocEcon 10	The Contemporary World	3	3		3	3		None	
TOTAL		23	21	2	27	21	6		
Second Semester									
CC 15	Applications Development and Emerging Technologies	3	2	1	5	2	3	CC 14	
CSCC 12	Discrete Structures 2	3	3		3	3		CSCC 11	
CSCC 13	Algorithms and Complexity	3	3		3	3		CC 13, CSCC 11	
CSCC 31	Computer Architecture and Organization	3	3		3	3		CC 13, CSCC 11	
ENGL 5	Purposive Communication	3	3		3	3		None	
ENGL 7	Art Appreciation	3	3		3	3		None	
HIST 2	Life and Works of Rizal	3	3		3	3		None	
PE 14	PATH-FIT 4: Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor and Adventure Activities	2	2		2	2		None	
TOTAL		23	22	1	25	22	3		

THIRD YEAR								
Course Code	Descriptive Title	Units			Hours per week			Pre-requisite
		Total	Lec	Lab	Total	Lec	Lab	
First Semester								
Elective 1	Professional Elective 1*	3	3		3	3		3rd yr standing
Elective 2	Professional Elective 2*	3	3		3	3		3rd yr standing
CSCC 15	Automata Theory and Formal Languages	3	3		3	3		CSCC 13
CSCC 32	Operating Systems	3	3		3	3		CSCC 31
CSCC 21	Software Engineering 1	3	3		3	3		CC 14, CSCC 20
FL 1	Foreign Language 1***	3	2	1	3	2	1	None
PHILO 25	Philosophy of Religion	3	3		3	3		None
TOTAL		21	20	1	21	20	1	
Second Semester								
Elective 3	Professional Elective 3*	3	3		3	3		3rd yr standing
CSCC 33	Networks and Data Communication	3	3		3	3		CSCC 32
CSCC 35	Human Computer Interaction	3	3		3	3		CC 10
CSCC 22	Software Engineering 2	3	2	1	5	2	3	CSCC 21
ITCC 21	Information Assurance and Security 1	3	3		3	3		CC 10
PHILO 23	Ethics	3	3		3	3		None
RS 45	Faith in Action: A Mission Experience	3	3		3	3		RS 10
TOTAL		21	20	1	23	20	3	
Summer								
CC 20	Research and Quantitative Methods in Computing	3	3		3	3		3rd yr standing
Elective 4	Professional Elective 4*	3	3		3	3		3rd yr standing
TOTAL		6	6	0	6	6	0	
FOURTH YEAR								
Course Code	Descriptive Title	Units			Hours per week			Pre-requisite
		Total	Lec	Lab	Total	Lec	Lab	
First Semester								
CC 50	Practicum**	9	6					4th yr standing
CSCC 51	CS Thesis 1	3	3		3	3		CC 20
TOTAL		12	9	0	3	3	0	
Second Semester								
CC 21	Social Issues and Professional Practice	3	3		3	3		None
CSCC 52	CS Thesis 2	3	3		3	3		CSCC 51
FL 2	Foreign Language 2***	3	2	1	3	2	1	FL 1
ENGL 65/ IDE 30	Literary Trends in the Millennium/ Interdisciplinary Elective 3	3	3		3	3		None
TOTAL		12	11		12	11		

*For Professional Electives, student must be at least 3rd yr in standing. One course must be MATH.

**CS Practicum is 486 hours

***FL is two courses of a foreign language, e.g. French 1 and French 2.

BSCS Total Units: 164