DEPARTMENT OF COMPUTER SCIENCE
Telephone: (088) 858-3116 local 1005; Email: dcs@xu.edu.ph

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
Curriculum Effective School Year 2013-2014

FIRST YEAR

First Semester

DESCRIPTIVE TITLE	COURSE CODE	TOTAL UNITS	LEC UNITS	LAB UNITS	Co-REQ	Pre-REQ.	TOTAL HRS/WK
CS Fundamentals	CS 10.1	3	2	1	None	None	5
Computer Programming 1	CS 11.1	3	2	1	None	None	5
College Algebra	MATH 01*/1	3	3	0	None	None	6*/3
Philippine History and Institutions	HIST 10.1	3	3	0	None	None	3
Komunikasyon sa Akademikong Filipino	FIL 22	3	3	0	None	None	3
Freshmen Formation Program	FFP 10	3	3	0	None	None	3
Physical Fitness	PE 1	2	2	0	None	None	2
TOTAL		20	18	2			27*/24

Notes: (1) Students who pass the College Algebra placement exam will take **MATH 1 College Algebra** (3 units credit) while non-passers will take **MATH 01 College Algebra** (3 units credit, 6 units paying).

(2) Students who fail the ENG 16.1 placement exam will take the **ENG 014.1 Engl Plus: Intro. to Study, Thinking and Communication Skills** (3 units, non-credit).

Second Semester

DESCRIPTIVE TITLE	COURSE CODE	TOTAL UNITS	LEC UNITS	LAB UNITS	Co-REQ	Pre-REQ.	TOTAL HRS/WK
Computer Programming 2	CS 12	3	2	1	None	CS 11.1	5
Data Structures	CS 20.1	3	3	0	None	CS 11.1	3
Plane Trigonometry	MATH 2	3	3	0	None	MATH 01*/1	3
General Chemistry (Lec)	CHEM 81	3	3	0	None	None	3
General Chemistry (Lab)	CHEM 81L	1	0	1	None	None	3
Study, Thinking and Language Skills in English	ENG 16.1	3	3	0	None	None	3
Rizal's Life, Works and Writings	HIST 11.1	3	3	0	None	None	3
The Old Testament	RS 15	3	3	0	None	FFP 10	3
Rhythmic Activities	PE 2	2	2	0	None	PE 1	2
TOTAL		24	22	2			28

SECOND YEAR

First Semester

DESCRIPTIVE TITLE	COURSE CODE	TOTAL UNITS	LEC UNITS	LAB UNITS	Co-REQ	Pre-REQ.	TOTAL HRS/WK
Discrete Structures	CS 13	3	3	0	None	MATH 01*/1	3
Design and Analysis of Algorithms	CS 21.1	3	3	0	None	CS 20.1	3
Digital Design	CS 25	3	2	1	None	MATH 01*/1	5
Object Oriented Programming	CS 30.1	3	2	1	None	CS 12	5
Mathematical Analysis I	MATH 5	5	5	0	None	MATH 01*/1/2	5
Effective Speech Communication	ENG 17	3	3	0	None	ENG 16.1	3
Logic	PHILO 01	3	3	0	None	None	3
National Service Training Program 1	NSTP 1	3	3	0	None	None	3
Individual/Dual Sports/Games	PE 3	2	2	0	None	PE 1	2
TOTAL		28	26	2			32

Second Semester

DESCRIPTIVE TITLE	COURSE CODE	TOTAL UNITS	LEC UNITS	LAB UNITS	Co-REQ	Pre-REQ.	TOTAL HRS/WK
Computer Organization and Assembly Language	CS 14	3	2	1	None	CS 25	5
Programming Languages	CS 22.1	3	2	1	None	CS 12	5
Basic Statistics	MATH 11	3	3	0	None	MATH 01*/1	3
Writing Term Paper in the Discipline and Business Correspondence	ENG 27	3	3	0	None	ENG 16.1	3
General Physics 1 (Lec)	PHYS 21	3	3	0	None	MATH 01*/1/2	3
General Physics 1 Lab)	PHYS 21L	1	0	1	None	MATH 01*/1/2	3
Philsophy of Man and the Human Person	PHILO 15.1	3	3	0	None	PHILO 01	3
Christology	RS 20	3	3	0	None	RS 15	3
National Service Training Program 2	NSTP 2	3	3	0	None	NSTP 1	3
Team Sports/Games	PE 4	2	2	0	None	PE 1	2
TOTAL		27	24	3			33

Xavier University
College of Computer Studies

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THIRD YEAR

First Semester

DESCRIPTIVE TITLE	COURSE CODE	TOTAL UNITS	LEC UNITS	LAB UNITS	Co-REQ	Pre-REQ.	TOTAL HRS/WK
Automata and Language Theory	CS 23	3	3	0	None	CS 13	3
Operating Systems	CS 26	3	2	1	None	CS 14	5
Database Systems	CS 31.1	3	2	1	None	CS 12	5
CS Elective 1	CS 40	3	2	1	None	3rd Yr	5
Politics and Governance w/ Phil. Constitution	PSC 10.1	3	3	0	None	None	3
General & Special Ethics with PERSON Program	PHILO 30.2	3	3	0	None	PHILO 15.1	3
Church and Sacraments	RS 35	3	3	0	None	RS 20	3
TOTAL		21	18	3			27

Second Semester

DESCRIPTIVE TITLE	COURSE CODE	TOTAL UNITS	LEC UNITS	LAB UNITS	Co-REQ	Pre-REQ.	TOTAL HRS/WK
Network Principles and Programming	CS 27	3	2	1	None	CS 26	5
Web Programming	CS 32.1	3	2	1	None	CS 31.1	5
Software Engineering	CS 33.1	3	2	1	None	CS 30.1	5
Linear Algebra	MATH 21	3	3	0	None	MATH 01*/1	3
The Literatures of the World	ENG 34.1	3	3	0	None	ENG 16.1	3
General Psychology	PSYC 1	3	3	0	None	None	3
Philosophy of Religion	PHILO 25	3	3	0	None	PHILO 30.2	3
TOTAL		21	18	3			27

Summer

DESCRIPTIVE TITLE	COURSE CODE	TOTAL UNITS	LEC UNITS	LAB UNITS	Co-REQ	Pre-REQ.	TOTAL HRS/WK
On-the-Job Training	CS 50.1	2	0	2	None	Incoming 4th Year	40
TOTAL		2	0	2			40

FOURTH YEAR

First Semester

DESCRIPTIVE TITLE	COURSE CODE	TOTAL UNITS	LEC UNITS	LAB UNITS	Co-REQ	Pre-REQ.	TOTAL HRS/WK
Introduction to Modelling and Simulation	CS 24	3	3	0	None	MATH 01*/1	3
CS Elective 2	CS 41	3	2	1	None	3rd Year	5
CS Elective 3	CS 42	3	2	1	None	3rd Year	5
CS Elective 4	CS 43	3	2	1	None	3rd Year	5
Free Elective 1	CS 45	3	3	0	None	None	3
Free Elective 2	CS 46	3	3	0	None	None	3
CS Thesis 1	CS 51.1A	3	2	1	None	CS 33.1	5
TOTAL		21	17	4			29

Second Semester

DESCRIPTIVE TITLE	COURSE CODE	TOTAL UNITS	LEC UNITS	LAB UNITS	Co-REQ	Pre-REQ.	TOTAL HRS/WK
Professional Ethics	CS 15	3	3	0	None	CS 10.1	3
Free Elective 3	CS 47	3	3	0	None	None	3
CS Thesis 2	CS 52.1A	3	2	1	None	CS 51.1A	5
Humanities, Arts, Aesthetics and Society	ENG 41	3	3	0	None	ENG 16.1	3
Pagbasa at Pagsulat Tungo sa Pananaliksik	FIL 33	3	3	0	None	FIL 22	3
Principles of Economics w/ Taxt'n, Agr Ref & Consumer Educ	ECON 20.1	3	3	0	None	None	3
Christian Morality w/ Social Teachings of the Church	RS 55	3	3	0	None	RS 35, PHILO 15.1/30.1	3
TOTAL		21	20	1			23

BSCS TOTALS		185	163	22			266/263