



COLLEGE OF COMPUTING STUDIES AND ENGINEERING

ENHANCED CURRICULUM
BACHELOR OF SCIENCE IN COMPUTER SCIENCE
(CMO, No. 25, s. 2015, Effective 1st Sem. AY 2023-2024)

Name: _____

FIRST YEAR

First Semester _____

Course Code	Descriptive Title	Grades	Units	Pre/ Co-Requisite	Instructor
CS 111	Introduction to Computing		3		
CS 112 L1	Fundamentals of Programming		3		
COMP 101	Microsoft Application (Word, Excel, PPP)		3		
GE 100	Purposive Communication		3		
GE 101	Understanding the Self		3		
GE 102	Mathematics in the Modern World		3		
PATH-FIT 1	Movement Competency Training		2		
NSTP 101	Civic Work & Training Service/ ROTC/LTS 1		3		
Theo 101	Islamic religion/ other religion		3		
TOTAL			26		

Second Semester _____

Course Code	Descriptive Title	Grades	Units	Pre/ Co-Requisite	Instructor
CS 121 L1	Intermediate Programming		3	CS 112 L1	
Math 111	Linear Algebra		3	GE 102	
COMP 102	Graphics Design (Adobe Photoshop & Corel Draw)		3	COMP 1	
GE 103	Arts Appreciation		3		
GE 104	Reading in the Philippine History ***		3		
GE Elect 1	Gender and Society *		3		
PATH-FIT 2	Exercised Based Fitness Activities		2	PATH-FIT 1	
NSTP 121	Civic Work & Training Service/ ROTC/LTS II		3	NSTP 101	
Theo 102	Islamic religion/ other religion		3	THEO 101	
TOTAL			26		

SECOND YEAR

First Semester _____

Course Code	Descriptive Title	Grades	Units	Pre/Co-Requisite	Instructor
CS 211 L1	Object Oriented Programming		3	CS 121 L1	
CS 212	Data Structure & Algorithm		3	CS 121 L1	
CS DS 1	Discrete Structures I		3	Math 111	
CS 213	Introduction to Intelligent Systems		3	2nd yr. Standing	
CS WEB 1	Web Development		3	2nd yr. Standing	
GVC 211	Graphics and Visual Computing		3	2nd yr. Standing	
GE 105	The Contemporary World		3		
GE Elect 2	Living in the IT ERA		3		
PATH-FIT 3	Choice of Dance, Sports, Martial Arts, Group Exercise and Adventure Activities		2	PATH-FIT 2	
TOTAL			26		

Second Semester _____

Course Code	Descriptive Title	Grades	Units	Pre/Co-Requisite	Instructor
CS 221	Algorithm and Complexity I (Design and Analysis of Algorithm)		3	CS DS 1	
CS 222	Information Management		3	CS 112 L1	
CS DS 2	Discrete Structure II		3	CS DS 1	
CS WEB 2	Web System and Technologies		3	CS WEB 1	
GE 106	Ethics		3		
GE Elect 3	Peace Education **		3		
GE 108	The Life and Works of Rizal		3		
PATH-FIT 4	Choice of Dance, Sports, Martial Arts, Group Exercise and Adventure Activities		2	PATH-FIT 3	
TOTAL			23		



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THIRD YEAR

First Semester

Course Code	Descriptive Title	Grades	Units	Pre/Co-Requisite	Instructor
CS 311	Algorithm and Complexity II (Algorithm Theory and Formal Language)		3	CS 221	
CS 312	Architecture and Organization		3	CS DS 2	
CS 313	Information Assurance and Security		3	CS 222	
CS Elec1 L1	CS Elective (Computational Science)		3	3rd year Standing	
CS 314 L1	Application and Emerging Technologies		3	CS 222	
Entre 311	Entrepreneurship		3	3 RD standing	
GE 107	Science Technology and Society		3		
TOTAL			21		

Second Semester

Course Code	Descriptive Title	Grades	Units	Pre/Co-Requisite	Instructor
CS 321 L2	Programming Languages		3	CS 121 L1	
CS 322	Human Computer Interaction		3	All Majors	
CS 323	Social Issues and Professional Practice		3	CS 313	
CS Elec2 L2	CS Elective 2 (Intelligent Systems)		3	3 RD standing	
CS 324 L1	Software Eng'g 1(Analysis and Design)		3	CS 222	
DM 1	Data Mining		3	3 RD standing	
CS 414	Thesis 1		3	All Major	
TOTAL			21		

FOURTH YEAR

First Semester

Course Code	Descriptive Title	Grades	Units	Pre/Co-Requisite	Instructor
CS 411	Operating Systems		3	CS 321 I2	
CS 412	Software Engineering 2(Implementation& Management Intelligent System)		3	CS 324 L1	
CS 413	Network and Communication		3	All Major	
CS 414	Parallel & Distributed Computing		3	4 th year standing	
CS 415	Thesis 2		3	All Major Subject	
TOTAL			15		

Second Semester

Course Code	Descriptive Title	Grades	Units	Pre/Co-Requisite	Instructor
PRC 101	Practicum (250 Hrs)		4	4 th yr. Standing	
CS Elec3	CS Elective 3 (System Fundamentals)		3	All Major	
TOTAL			7		
GRAND TOTAL					

SUMMARY OF THE BSCS CURRICULUM

General Education	36.0
Common Courses	18.0
Professional Courses	55.0
Professional Electives	9.0
Additional Math Course	3.0
Domain Courses	18.0
PE	8.0
NSTP	6.0
Institutional Courses	12.0
Minimum Total Units	165.0

Legend:

*GAD (CMO No. 1, s. 2015) is the G.E Elec 1 (Gender and Society)

**Peace Studies (CMO No. 1, s. 2019) is the G.E 103 (Peace Education)

***Indigenous People Studies (CMO No. 2, s. 2019) integrated into G.E 104 (Reading in the Philippine History)