

College of Computer Studies BACHELOR OF SCIENCE IN COMPUTER SCIENCE ENHANCED CURRICULUM SY 2023-2024

FIRST YEAR First Semester				ITS Lab	HOI Lec		Pre-requisites
Comp 1	Introduction to Computing	3	2	1	2	3	None
Comp 2	Computer Programming 1 (Fundamentals of Programming)	3	2	1	2	3	None
CS 1	Digital Design	3	2	1	2	3	None
GEC-UTS	Understanding the Self	3	3	0	3	0	None
GEC-MATH	Mathematics in the Modern World	3	3	0	3	0	None
Math 1	College Algebra	3	3	0	3	0	None
BSC 1	Being Skills Course 1	1.5	1.5	0	1.5	0	None
PE 1	Physical Fitness & Gymnastic	2	2	0	2	0	None
NSTP 1	National Service Training Program 1	3 24.5	3	0	3	0	None
Second Semester							
CS 2	Computer Organization and Architecture	3	2	1	2	3	CS 1
CS 3	Operating Systems	3	2	1	2	3	CS 1
CS 5	Multimedia Technologies Computer Programming 2	3	2	1	2	3	Comp 1 & Comp 2
Comp 3	(Intermediate Programming)	3	2	1	2	3	Comp 1 & Comp 2
Math 2	Plane and Spherical Trigonometry	3	3	0	3	0	Math 1
Math 3	Analytic Geometry	3	3	0	3	0	Math 1
BSC 2	Being Skills Course 2	1.5	1.5	0	1.5	0	BSC 1
EPC	English Proficiency	3	3	0	3	0	None
PE 2	Rhythmic Activities	2	2	0	2	0	PE 1
NSTP 2	National Service Training Program 2	3 27.5	3	0	3	0	NSTP 1
SUMMER							
CS 6	Networking 1	3	2	1	2	3	CS 2 & CS 3
CS 11	Elective 1	3	2	1	2	3	CS 5
Comp 4	Data Structures & Algorithms	<u>3</u>	2	1	2	3	Comp 3
SECOND YEAR			UN	ITS	но	JRS	Pre-requisites
First Semester				Lab		Lab	•
CS 4	Systems Analysis and Design	3	2	1	2	3	Comp 4 & CS 3
CS 8	Object-Oriented Programming	3	2	1	2	3	Comp 4
CS 9	Programming Languages	3	2	1	2	3	Comp 4
CS 10	Networking 2	3	2	1	2	3	CS 6
CS 16	Elective 2	3	2	1	2	3	CS 11
Math 4	Differential Calculus	3	3	0	3	0	Math 2 & Math 3
Math 3C	Probability and Statistics	3	3	0	3	0	Math 1
FL	Foreign Language	3	3	0	3	0	None
PE 3	Individual & Dual Sports	2	2	0	2	0	PE 2
		26					

CS 7 CS 14 CS 15 CS 18 Comp 5 Math 5 GEC-TCW GEC-STS PE 4	Project Management Networking 3 Software Engineering Elective 3 Information Management Integral Calculus The Contemporary World Science, Technology & Society Team Sports & Recreation	3 3 3 3 3 3 3 2	2 2 2 2 2 3 3 3 2	1 1 1 1 1 0 0 0	2 2 2 2 2 3 3 3 2	3 3 3 3 0 0 0	CS 4 CS 10 CS 8 CS 16 CS 4 Math 4 None None PE 3
SUMMER							
CS 12 CS 13 Phys 1	Discrete Structures CS Thesis Writing 1 Calculus-based Physics 1	3 3 3	3 3 1	0 0 2	3 3 2	0 0 3	Math 5 CS 4 and CS 7 Math 5
THIRD YEAR			UN	ITS	но	URS	Pre-requisites
First Semester				Lab	Lec	Lab	·
CS 17	Automata Theory and Formal Languages	3	2	0	3	Lab 0	CS 12
CS 17 CS 19	Elective 4	3	2	0	3 2	Lab 0 3	CS 12 CS 18
CS 17 CS 19 CS 21	Elective 4 Networking 4	3 3	2 2 2	0 1 1	3 2 2	0 3 3	CS 12 CS 18 CS 14
CS 17 CS 19 CS 21 CS 22	Elective 4 Networking 4 CS Thesis Writing 2	3 3 3	2 2 2 3	0 1 1 0	3 2 2 3	0 3 3 0	CS 12 CS 18 CS 14 CS 13
CS 17 CS 19 CS 21 CS 22 Comp 6	Elective 4 Networking 4 CS Thesis Writing 2 Application Devt. & Emerging Technologies	3 3 3 3	2 2 2 3 2	0 1 1 0 1	3 2 2 3 2	0 3 3 0 3	CS 12 CS 18 CS 14 CS 13 Comp 5
CS 17 CS 19 CS 21 CS 22 Comp 6 Phys 2	Elective 4 Networking 4 CS Thesis Writing 2 Application Devt. & Emerging Technologies Calculus-based Physics 2	3 3 3 3	2 2 2 3 2 1	0 1 1 0 1 2	3 2 2 3 2 2	0 3 3 0 3 3	CS 12 CS 18 CS 14 CS 13 Comp 5 Phys 1
CS 17 CS 19 CS 21 CS 22 Comp 6 Phys 2 GEC-RPH	Elective 4 Networking 4 CS Thesis Writing 2 Application Devt. & Emerging Technologies Calculus-based Physics 2 Readings in Philippine History	3 3 3 3 3	2 2 2 3 2 1 3	0 1 1 0 1 2	3 2 2 3 2 2 3	0 3 3 0 3 3 0	CS 12 CS 18 CS 14 CS 13 Comp 5 Phys 1 None
CS 17 CS 19 CS 21 CS 22 Comp 6 Phys 2 GEC-RPH GEC-ART	Elective 4 Networking 4 CS Thesis Writing 2 Application Devt. & Emerging Technologies Calculus-based Physics 2 Readings in Philippine History Art Appreciation	3 3 3 3 3 3	2 2 2 3 2 1 3 3	0 1 1 0 1 2 0	3 2 2 3 2 2 3 3	Lab 0 3 0 3 0 3 0 0 0	CS 12 CS 18 CS 14 CS 13 Comp 5 Phys 1 None None
CS 17 CS 19 CS 21 CS 22 Comp 6 Phys 2 GEC-RPH	Elective 4 Networking 4 CS Thesis Writing 2 Application Devt. & Emerging Technologies Calculus-based Physics 2 Readings in Philippine History	3 3 3 3 3	2 2 2 3 2 1 3	0 1 1 0 1 2	3 2 2 3 2 2 3	0 3 3 0 3 3 0	CS 12 CS 18 CS 14 CS 13 Comp 5 Phys 1 None
CS 17 CS 19 CS 21 CS 22 Comp 6 Phys 2 GEC-RPH GEC-ART GEC-PCOM	Elective 4 Networking 4 CS Thesis Writing 2 Application Devt. & Emerging Technologies Calculus-based Physics 2 Readings in Philippine History Art Appreciation	3 3 3 3 3 3 3	2 2 2 3 2 1 3 3	0 1 1 0 1 2 0	3 2 2 3 2 2 3 3	Lab 0 3 0 3 0 3 0 0 0	CS 12 CS 18 CS 14 CS 13 Comp 5 Phys 1 None None
CS 17 CS 19 CS 21 CS 22 Comp 6 Phys 2 GEC-RPH GEC-ART GEC-PCOM	Elective 4 Networking 4 CS Thesis Writing 2 Application Devt. & Emerging Technologies Calculus-based Physics 2 Readings in Philippine History Art Appreciation Purposive Communication	3 3 3 3 3 3 3 27	2 2 2 3 2 1 3 3 3	0 1 1 0 1 2 0 0	3 2 2 3 2 2 3 3 3	Lab 0 3 3 0 3 0 0 0	CS 12 CS 18 CS 14 CS 13 Comp 5 Phys 1 None None
CS 17 CS 19 CS 21 CS 22 Comp 6 Phys 2 GEC-RPH GEC-ART GEC-PCOM Second Semester CS 20	Elective 4 Networking 4 CS Thesis Writing 2 Application Devt. & Emerging Technologies Calculus-based Physics 2 Readings in Philippine History Art Appreciation Purposive Communication Modeling and Simulation	3 3 3 3 3 3 27	2 2 2 3 2 1 3 3 3	0 1 1 0 1 2 0 0 0	3 2 2 3 2 2 3 3 3 3	Lab 0 3 3 0 3 0 0 0 0	CS 12 CS 18 CS 14 CS 13 Comp 5 Phys 1 None None None
CS 17 CS 19 CS 21 CS 22 Comp 6 Phys 2 GEC-RPH GEC-ART GEC-PCOM Second Semester CS 20 Rizal	Elective 4 Networking 4 CS Thesis Writing 2 Application Devt. & Emerging Technologies Calculus-based Physics 2 Readings in Philippine History Art Appreciation Purposive Communication Modeling and Simulation The Life and Works of Rizal	3 3 3 3 3 3 27	2 2 2 3 2 1 3 3 3 3	0 1 1 0 1 2 0 0 0	3 2 2 3 2 2 3 3 3 3	Lab 0 3 3 0 3 0 0 0 0	CS 12 CS 18 CS 14 CS 13 Comp 5 Phys 1 None None None CS 17 None
CS 17 CS 19 CS 21 CS 22 Comp 6 Phys 2 GEC-RPH GEC-ART GEC-PCOM Second Semester CS 20	Elective 4 Networking 4 CS Thesis Writing 2 Application Devt. & Emerging Technologies Calculus-based Physics 2 Readings in Philippine History Art Appreciation Purposive Communication Modeling and Simulation	3 3 3 3 3 3 27	2 2 2 3 2 1 3 3 3	0 1 1 0 1 2 0 0 0	3 2 2 3 2 2 3 3 3 3	Lab 0 3 3 0 3 0 0 0 0	CS 12 CS 18 CS 14 CS 13 Comp 5 Phys 1 None None None

Electives for Specialization Tracks:

Game Development

CS 11 Elective 1 - Human Computer Interaction

CS 16 Elective 2 - Game Development

CS 18 Elective 3 - Gaming Platform Frameworks

CS 19 Elective 4 - Advanced Game Development

Mobile Application Development

CS 11 Elective 1 - Human Computer Interaction

CS 16 Elective 2 - Mobile Application Development

CS 18 Elective 3 - Android Application Development

CS 19 Elective 4 - Advanced Mobile Application Development

Electives for No Specialization Track:

CS 11 Elective 1 - Current Trends &

Issues in Computing

12

CS 16 Elective 2 - IT Quality Assurance

CS 18 Elective 3 - Mandarin

CS 19 Elective 4 - Intelligent Systems