

Bachelor of Science in Computer Science

BSCS

Course Description

The BSCS curricular program prepares students with required knowledge, skills and attitudes to become professionals with expertise relevant to the demands of the Information Technology based environment.

Course Duration: The BSCS course covers four (4) curricular years of general education and professional subjects including hands-on laboratory classes and practicum as defined under CHED Memorandum Order No. 60 S, 1996.

Curriculum

FIRST YEAR

First Trimester					Second Trimester						
COURSE CODE	DESCRIPTION	HOURS			PREREQ.	COURSE CODE	DESCRIPTION	HOURS			PREREQ.
		LEC	LAB	UNITS				LEC	LAB	UNITS	
NGEC 1 113	Understanding the Self	4.5	0	3		NGEC 4 123	Mathematics in the Modern World	4.5	0	3	
NGEC 2 113	Reading in Philippine History	4.5	0	3		NGEC 5 123	Purposive Communication	4.5	0	3	
PE 1 112	Basic Swimming	0	3	2		FIL 123	Pagbasa't Pagsulat sa Ibat-Ibang Disiplina	4.5	0	3	
NGEC 3 113	The Contemporary World	4.5	0	3		NGEC 6 123	Arts Appreciation	4.5	0	3	
ITE 113L6	Intro to Information Technology	1.5	6	3		ITE 123L3	Business Software Application	3.0	4.5	3	ITE 113L6
NSTP 113	Civil Welfare Training Services 1	{4.5}	0	{3}		CSB 123L3	Computer Programming 1	3.0	4.5	3	CSA 113L3
	Total	18{4.5}	13.5	17{3}		TVETA 133L3	Electronics with Technical Drawing	3.0	4.5	3	
						NSTP 123	Civil Welfare Training Services 2	{4.5}	0	{3}	NSTP 113
						Total	27{4.5}	13.5	21{3}		

Third Trimester

COURSE CODE	DESCRIPTION	HOURS			PREREQ.
		LEC	LAB	UNITS	
NGEC 9 133	Math, Science and Technology	4.5	0	3	NGEC 4 123
CSC 133L3	Computer Programming 2	3.0	4.5	3	CSB 123L3
FIL 133	Sining ng Pakikipagtalastasan	4.5	0	3	FIL123
NGEC 8 133	Ethics	4.5	0	3	
CSD 133	Data Structure	4.5	0	3	CSB 123L3
TVETB 132	Quality Standards and Safety	3.0	0	2	CSA 113L3
AS 131	Aptitude for Service I	1.5	0	1	NSTP 123
PE 2 132	Dancing	0	3	2	PE 1 112
	Total	25.5	7.5	20	

SECOND YEAR

First Trimester					Second Trimester						
COURSE CODE	DESCRIPTION	HOURS			PREREQ.	COURSE CODE	DESCRIPTION	HOURS			PREREQ.
		LEC	LAB	UNITS				LEC	LAB	UNITS	
NGEC 7 213	Science, Technology & Society	4.5		3		NGEC 11 223	Arts and Humanities	4.5	0	3	NGEC 7
NGEC 10 213	Philippine Politics and Governance	4.5		3		CSH 224L6	Web Programming (Web and Multi-media Design)	3.0	9.0	4	CSC 213L3
LIT 213	Philippine Literature	4.5		3		CSJ 224L6	Database Management Systems (Database Design & Implementation)	3.0	9.0	4	CSF 224L6
TVETC 212	Professional Development	3.0	0	2		CEC 223L3	Advanced Database Systems	3.0	4.5	3	CSI 314L6
TVETD 213L3	PC Hardware and Diagnostics	3.0	4.5	3	TVETA 213L3	ENGL 224	Modern Communication (Business Communication)	6.0	0	4	COMM123
CSF 214L6	Design and Analysis of Algorithm (Programming-Algorithms & Data Structure)	3.0	9.0	4	CSD 213/ CSC 213L3	CSO 223	Digital Design	4.5	0	3	CSA 123L3
CSG 214	Discrete Structures (Mathematics of Computing)	6.0	0	4	CSB 123L3	BEST 221	Advanced Personality Development	1.5		1	AS 211
PE 212	Individual & Dual Sport	0.0	3	2	PE 132	PE 222	Combative and Team Sport	0.0	3	2	PE 212
AS 211	Aptitude for Service II	1.5		1	AS 131	Total	26	26	24		
	Total	30	16.5	25							

Third Trimester

COURSE CODE	DESCRIPTION	HOURS			PREREQ.
		LEC	LAB	UNITS	
CSL 234L6	Object Oriented Programming (Object Oriented Programming)	3.0	9	4	CSF 214L6
CSM 234L6	Software Engineering (System Analysis and Design)	3.0	9	4	CSF 214L6/ CSG 224
CSJ 234L6	Programming Languages (C# Programming)	3.0	9	4	CSF 214L6
ETHICS 233	Professional Ethics and Values Formation	4.5	0	3	
CSK 233	Automata and Language Theory	4.5	0	3	CSG 224
FEA 233L3	Network Administration & Maintenance	3.0	4.5	3	CEC 223L3
RIZAL 233	Life and Works of Rizal	4.5		3	
BEST 231	Public Speaking	1		1	BEST 221
	Total	26.5	31.5	25	

THIRD YEAR

First Trimester						Second Trimester					
COURSE CODE	DESCRIPTION	HOURS			PREREQ.	COURSE CODE	DESCRIPTION	HOURS			PREREQ.
		LEC	LAB	UNITS				LEC	LAB	UNITS	
CSN 313L3	Operating Systems	3.0	4.5	3	CSL 234L6	CST 323	Computer Seminars	4.5	0	3	
CSQ 313L3	Computer Organization and Assembly Language	3.0	4.5	3	CSJ 234L6	FEB 323L3	Presentation Skills in IT	3.0	4.5	3	CSH 224L6
CSP 313	Modeling and Simulation	4.5	0	3	CSL 234L6	CED 323L3	Interactive and Applied Multimedia	3.0	4.5	3	CSH 224L6
TVETE 313L3	Equipment Maintenance	3.0	4.5	3	TVETD 213L3	CEC 323L3	Advanced Database System	3.0	4.5	3	CSI 224L6 (C2202)
CEA 313L3	Mobile Programming	3.0	4.5	3	CSJ 234L6	CSS 323	CS Thesis 1	4.5	0	3	
CEB 313	Artificial Intelligence	4.5	0	3	CSG 214	FL 323	Foreign Language	4.5	0	3	
FEC 313	IP Review and Certification Program	4.5	0	3		Total		22.5	13.5	18	
	Total	25.5	18	21							

Third Trimester						
COURSE CODE	DESCRIPTION	HOURS			PREREQ.	
		LEC	LAB	UNITS		
CSU 333	CS Thesis 2	4.5	0	3	CSU 323	
CSR 333	OJT/Internship (165 HRS)	4.5	0	3	Completed the 3rd Year CS Major Courses	
	Total	9	0	6		

