



BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSCS)
(In compliance with CHED Memorandum Order No. 25, s. 2015)
(Curriculum Revision confirmed per WMSU Board Resolution No. 18, s. 2018)
Effective S.Y. 2018-2019



FIRST YEAR

First Semester						Second Semester					
CODE	TITLE	HRS/WK		UNITS	PREREQ	CODE	TITLE	HRS/WK		UNITS	PREREQ
		LEC	LAB					LEC	LAB		
CC 100	Introduction to Computing	2	3	3	None	CS 111	Discrete Structures 1	3	0	3	MATH 100
CC 101	Computer Programming 1	3	3	4	None	CC 102	Computer Programming 2	3	3	4	CC 101
CAS 101	Purposive Communication	3	0	3	None	MATH 103	Calculus 1	3	0	3	MMW
MATH 100	Mathematics in the Modern World	3	0	3	None	CW 101	The Contemporary World	3	0	3	None
US 101	Understanding the Self	3	0	3	None	STS 100	Science, Technology and Society	3	0	3	None
FIL 101	Komunikasyon sa Akademikong Filipino	3	0	3	None	FIL 102	Retorika	3	0	3	FIL 101
PE 101	Physical Education 1			2	None	PE 102	Physical Education 2			2	None
NSTP 1	National Service Training Program 1			3	None	NSTP 2	National Service Training Program 2			3	NSTP 1
EUTH A	Euthenics A			2	None	EUTH B	Euthenics B			2	None
TOTAL		17	6	26		TOTAL		18	3	26	

SECOND YEAR

First Semester						Second Semester					
CODE	TITLE	HRS/WK		UNITS	PREREQ	CODE	TITLE	HRS/WK		UNITS	PREREQ
		LEC	LAB					LEC	LAB		
CS 121	Object-Oriented Programming	3	3	4	CC 102	CS 120	Architecture and Organization	3	3	4	CS 111, CC 103
CS 123	Discrete Structures 2	3	0	3	CS 111	CS 122	Design and Analysis of Algorithms	3	0	3	CS 111, CC 103
CS 125	Digital Design	3	3	4	CS 111	CS 124	Programming Languages	2	3	3	CC 103
CS 127	Human Computer Interaction	0	3	1	CC 102	CS 126	Networks and Communications	2	3	3	CC 102
CC 103	Data Structures and Algorithms	3	3	4	CC 102	CS 128	CS Elective 1	2	3	3	2nd Year Standing
MATH 104	Calculus 2	3	0	3	MATH 103	CC 104	Information Management	3	3	4	CS 121
LIT 101	Philippine Literature	3	0	3	None	PE 104	Physical Education 4			2	None
PE 103	Physical Education 3			2	None	TOTAL		15	15	22	
TOTAL		18	12	24							

THIRD YEAR

First Semester						Second Semester					
CODE	TITLE	HRS/WK		UNITS	PREREQ	CODE	TITLE	HRS/WK		UNITS	PREREQ
		LEC	LAB					LEC	LAB		
CS 131	Automata Theory and Formal Languages	3	0	3	CS 122, CS 124	CS 130	CS Thesis 1	3	0	3	3rd Year Standing
CS 133	Information Assurance and Security	2	0	2	CC 104	CS 132	Software Engineering 2	2	3	3	CS 137
CS 135	Advanced Database Systems	3	3	4	CC 104	CS 134	Operating Systems	3	3	4	CS 120
CS 137	Software Engineering 1	2	3	3	CS 121, CC 104	CS 136	Modeling and Simulation	2	3	3	CS 131
CS 139	Web Programming and Development	3	3	4	CC 104	CS 138	CS Elective 3	2	3	3	3rd Year Standing
CS 140	CS Elective 2	2	3	3	3rd Year Standing	ETHICS 101	Ethics	3	0	3	None
CC 105	Application Development and Emerging Technologies	2	3	3	CC 104	TOTAL		15	12	19	
TOTAL		17	15	22							

Summer

CODE	TITLE	HRS/WK		UNITS	PREREQ
		LEC	LAB		
CS 141	Practicum / Industry Immersion	0	27	3	Incoming Graduating
TOTAL		0	27	3	

FOURTH YEAR

First Semester						Second Semester					
CODE	TITLE	HRS/WK		UNITS	PREREQ	CODE	TITLE	HRS/WK		UNITS	PREREQ
		LEC	LAB					LEC	LAB		
CS 143	Thesis 2	3	0	3	CS 130	CS 142	Social Issues and Professional Practice	3	0	3	CS 132
HIST 100	Life and Works of Rizal	3	0	3	None	HIST 101	Readings in Philippine History	3	0	3	None
TOTAL		6	0	6		A&H 100	Art Appreciation	3	0	3	None
						TOTAL		9	0	9	
						GRAND TOTAL		115	90	157	

Suggested CS Electives:			
Graphics and Visual Computing	Digital Image Processing	Impact Sourcing	
Parallel and Distributed Computing	Cybersecurity	Cloud Computing	
Intelligent Systems	Data Science	Smart City Layout	
Artificial Intelligence	Machine Learning		
Mobile Application Development	Big Data		
Updated as of May 04, 2018			