CURRICULUM

Bachelor of Science in Computer Science

First Year – First Semester

Course Code	Course Title	Lec Hours	Lab Hours	Total Units	Pre-requisites	Co-requisites
GE US	Understanding the Self	3		3	None	
GE MMW	Mathematics in the Modern World	3		3	None	
CS 111	Introduction to Computing	3		3	None	
CS 112	Fundamentals of Programming	2	3	3	None	
CS 113	Computer Architecture and Organization	2	3	3	None	
CS ELEC 1	Fundamentals of Electricity and Electronics	2	3	3	None	
PE 1	PATHFit 1: Movement Competency Training	2		3	None	
NSTP 1	CWTS/ROTC/LTS 1	3		2	None	
	Sub-total	**20**	**9**	**23**		

First Year – Second Semester

Course Code	Course Title	Lec Hours	Lab Hours	Total Units	Pre-requisites	Co-requisites
Math 1	Calculus 1	3		3	GE MMW	
CC 121	Intermediate Programming	2	3	3	CC 112	
CS 122	Object-Oriented Programming	2	3	3	CC 112	
CS 123	Networking and Data Communication	2	3	3	CC 111	
CS 124	Human Computer Interaction	3		3	None	
CS ELEC 2	System Fundamentals	3		3	None	
PE 2	PATHFit 2: Exercise-based Fitness Activities	2		2	PE 1	
NSTP 2	CWTS/ROTC/LTS 2	3		3	NSTP 2	
	Sub-total	**20**	**9**	**23**		

Second Year – First Semester

Course Code	Course Title	Lec Hours	Lab Hours	Total Units	Pre-requisites	Co-requisites
GE RPH	Readings in the Philippine History	3		3	None	
GE AA	Art Appreciation	3		3	None	
Math 2	Calculus 2	3		3	Math 1	
CS 211	Data Structures and Algorithms	2	3	3	CS 121, CS 122	
CS 212	Discrete Structures	3		3	Math 1	Math 2
CS 213	Principles of Accounting	3		3	None	
PE 3	PATHFit 3: Dance, Sports, Martial Arts, Group Exercise, Outdoor and Adventure Activities	2		2	PE 2	
	Sub-total	**19**	**3**	**20**		

Second Year – Second Semester

Course Code	Course Title	Lec Hours	Lab Hours	Total Units	Pre-requisites	Co-requisites
GE STS	Science, Technology, and Society	3		3	None	
GE Ethics	Ethics	3		3	None	
CC 221	Information Management	2	3	3	Second Year Standing	
CC 222	Logic Design and Digital Computer Circuit with Microcontrollers	2	3	3	CS ELEC 1	
CC 223	Programming Languages	3		3	CS 212	
CC 224	Software Engineering	2	3	3	Second Year Standing	
PE 4	PATHFit 4: Dance, Sports, Martial Arts, Group Exercise, Outdoor and Adventure Activities	2		2	PE 3	
	Sub-total	**17**	**9**	**20**		

Third Year – First Semester

Course Code	Course Title	Lec Hours	Lab Hours	Total Units	Pre-requisites	Co-requisites
STAT	Inferential Statistics	3		3	Third Year Standing	
CS 311	Algorithms and Complexity	3		3	Cs 212	
CS 312	Mobile Application Development	2	3	3	Third Year Standing	
CS 313	Automata Theory and Formal Languages	3		3	CS 212	
CS 314	Methods of Research	3		3	Third Year Standing	
CS ELEC 3	Graphics and Visual Computing	2	3	3	CS ELEC 2	
	Sub-total	**16**	**6**	**18**		

Third Year – Second Semester

Course Code	Course Title	Lec Hours	Lab Hours	Total Units	Pre-requisites	Co-requisites
GE PC	Purposive Communication	3		3	None	
CS 321	Applications Development and Emerging Technologies	3	3	3	Third Year Standing	
CS 322	Thesis Writing 1	3	3	3	CS 311, CS 314	
CS 323	Web Development/Web Enterprise	3	3	3	CS 221, CS 224	
CS ELEC 4	Intelligent System	2	3	3	CS 311, CS 315, ISTAT	
	Sub-total	**11**	**12**	**15**		

Third Year – Midyear (Summer)

Course Code	Course Title	Lec Hours	Lab Hours	Total Units	Pre-requisites	Co-requisites
CS OJT	**On-the-Job Training**		320	3	**Passed all 1st-3rd Year Courses**	
	Sub-total	**0**	**320**	**3**		

Fourth Year – First Semester

Course Code	Course Title	Lec Hours	Lab Hours	Total Units	Pre-requisites	Co-requisites
GE Rizal	The Life and Works of Rizal	3		3	None	
GE CW	The Contemporary World with Peace Communication	3		3	None	
CS 412	Thesis Writing 2	2	3	3	CS 322	
CS 413	Operating Systems	3		3	CS 113, CS 223	
CS ELEC 5	Parallel and Distributed Computing	2	3	3	None	
	Sub-total	**13**	**6**	**15**		

Fourth Year – Second Semester

Course Code	Course Title	Lec Hours	Lab Hours	Total Units	Pre-requisites	Co-requisites
CS 421	Information Assurance and Security	3		3	Fourth Year Standing	
CS ELEC 6	Computational Science	3		3	None	
GEE GS	Gender and Society with IP Studies	2	3	3	None	
GEE PPC	Philippine Popular Culture	3		3	None	
GEE HM	Human Reproduction	2		3	None	
	Sub-total	**14**	**3**	**15**		
	Total	**130**	**57**	**152**		