

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (B.S. CS)

(Curriculum applicable to students who entered as freshmen beginning school year 2014-2015)

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	1	BIO011	GENERAL BIOLOGY	4.5	-	3.0		
1	1	ENG021	ENGLISH FOR ACADEMIC STUDIES 1	4.5	-	3.0		
1	1	IT010	I.T. FUNDAMENTALS	3.0	-	2.0		
1	1	IT010L	I.T. FUNDAMENTALS (LAB)	-	3.0	1.0		
1	1	MATH011	ALGEBRA	4.5	-	3.0		
1	1	SS019	PHILIPPINE HISTORY, GOVERNMENT AND CONSTITUTION	4.5	-	3.0		
1	1	NSTP010	OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM	3.0	-	(3.0)		
1	1	PE011	PHYSICAL EDUCATION 1: PHYSICAL FITNESS AND GYMNASTICS	-	3.0	(2.0)		
1	1	VE011	VALUES EDUCATION 1	1.5	-	(1.0)		
Total				25.5	6.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	2	CS100	INTRODUCTION TO COMPUTER SYSTEMS	4.5	-	3.0		
1	2	ENG022	ENGLISH FOR ACADEMIC STUDIES 2	4.5	-	3.0	ENG021	
1	2	FIL001	FILIPINO 1	4.5	-	3.0		
1	2	IT100	ALGORITHMS AND PROBLEM SOLVING	4.5	-	3.0		
1	2	MATH012	PLANE AND SPHERICAL TRIGONOMETRY	4.5	-	3.0	MATH011	
1	2	PE012	PHYSICAL EDUCATION 2: DANCE AND MARTIAL ARTS	-	3.0	(2.0)		
1	2	VE012	VALUES EDUCATION 2	1.5	-	(1.0)	VE011	
Total				24.0	3.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	3	ENG023	ENGLISH FOR ACADEMIC STUDIES 3	4.5	-	3.0	ENG022	
1	3	FIL002	FILIPINO 2	4.5	-	3.0	FIL001	
1	3	IT110P	COMPUTER PROGRAMMING CONCEPTS (PAIRED)	3.0	4.5	3.0	IT100	
1	3	MATH013	ANALYTIC GEOMETRY	4.5	-	3.0	MATH012	
1	3	SS018	CIVILIZATION AND DEVELOPMENT IN ASIA	4.5	-	3.0		
1	3	NSTP011-2P	LITERACY TRAINING SERVICE	4.0	3.0	(3.0)	NSTP010	
1	3	PE013	PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS	-	3.0	(2.0)		
Total				25.0	10.5	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	1	CHM015	GENERAL CHEMISTRY	4.5	-	3.0		
2	1	CHM015L	GENERAL CHEMISTRY (LAB)	-	3.0	1.0		CHM015
2	1	CS106P	DATA STRUCTURES AND ALGORITHMS (PAIRED)	3.0	4.5	3.0	IT110P	
2	1	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011	
2	1	IT111P	OOP 1 - CONCEPTS IN OBJECT ORIENTED PROGRAMMING (PAIRED)	3.0	4.5	3.0	IT110P	
2	1	MATH014	SOLID MENSURATION	3.0	-	2.0	MATH013	
Total				18.0	12.0	15.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	2	CS152	HUMAN COMPUTER INTERACTION	4.5	-	3.0		
2	2	ENG041L	ENGLISH AT THE WORKPLACE 1	-	3.0	1.0	ENG023	
2	2	CS120	STRUCTURE OF PROGRAMMING LANGUAGES	4.5	-	3.0	CS106P	
2	2	MATH021	CALCULUS 1	4.5	-	3.0	MATH013	
2	2	PHY015	GENERAL PHYSICS	4.5	-	3.0	MATH011	
2	2	PHY015L	GENERAL PHYSICS (LAB)	-	3.0	1.0	MATH011	PHY015
Total				18.0	6.0	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	3	CS103	SYSTEMS ANALYSIS AND DESIGN 1	4.5	-	3.0	CS100	
2	3	CS105P	INTRODUCTION TO RELATIONAL DATA BASE MANAGEMENT (PAIRED)	3.0	4.5	3.0	IT111P	
2	3	MATH022	CALCULUS 2	4.5	-	3.0	MATH021	
2	3	IT112P	OOP 2 - PROGRAMMING WITH WINDOWS FORMS 1 (PAIRED)	3.0	4.5	3.0	IT111P	
2	3	IT130	DATA COMMUNICATIONS AND INTRODUCTION TO NETWORKING TECHNOLOGIES	4.5	-	3.0	CS100	
2	3	PE014	PHYSICAL EDUCATION 5: TEAM SPORTS	-	3.0	(2.0)	PE013	
Total				19.5	12.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	1	CPE131-1P	COMPUTER SYSTEMS ORGANIZATION AND ARCHITECTURE WITH ASSEMBLY LANGUAGE PROGRAMMING (PAIRED)	3.0	4.5	3.0		
3	1	MATH110	PROBABILITY AND STATISTICS	4.5	-	3.0	MATH011	
3	1	IT114P	OOP 4 - PROGRAMMING USING WEB (PAIRED).	3.0	4.5	3.0	IT111P	
3	1	IT117P	JAVA PROGRAMMING (PAIRED)	3.0	4.5	3.0	IT112P	
3	1	SS012	PSYCHOLOGY	4.5	-	3.0		
Total				18.0	13.5	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	2	HUM012	PHILOSOPHY OF THE HUMAN PERSON	4.5	-	3.0		
3	2	CPE101-1P	DIGITAL DESIGN (PAIRED)	3.0	4.5	3.0		
3	2	CS150P	SOFTWARE ENGINEERING (PAIRED)	3.0	4.5	3.0	CS103, IT112P, IT114P	
3	2	IT128	INFORMATION ASSURANCE AND SECURITY	4.5	-	3.0		
3	2		CS PROFESSIONAL ELECTIVE 1	*	*	3.0		
Total				15.0+	9.0+	15.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	CS151	OPERATING SYSTEMS	4.5	-	3.0	CS106P	
3	3	SS017	SOCIETY,CULTURE AND FAMILY LIFE	4.5	-	3.0		
3	3		CS PROFESSIONAL ELECTIVE 2	*	*	3.0		
3	3		CS PROFESSIONAL ELECTIVE 3	*	*	3.0		
3	3		CS PROFESSIONAL ELECTIVE 4	*	*	3.0		
3	3	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011	
Total				10.5+		15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	4	IT180F	FIELD TRIP AND SEMINAR	-	4.5	1.0	CS150P	
3	4		FREE ELECTIVE 1	*	*	3.0		
3	4	ENG042L	ENGLISH AT THE WORKPLACE 2	-	3.0	1.0	ENG041L	
3	4	HUM013	LITERATURE AND CREATIVE ARTS	4.5	-	3.0		
Total				4.5+	7.5+	8.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	CS200P	THESIS 1 (PAIRED)	3.0	4.5	3.0	RES110P	
4	1	IT181	ETHICS AND I.T. LAWS	4.5	-	3.0	IT180F	
4	1		CS PROFESSIONAL ELECTIVE 5	*	*	3.0		
4	1		CS PROFESSIONAL ELECTIVE 6	*	*	3.0		
4	1		FREE ELECTIVE 2	*	*	3.0		
4	1	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE011	
Total				9.0+	4.5+	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	CS201P	THESIS 2 (PAIRED)	3.0	4.5	3.0	CS200P	
4	2	ENG043L	ENGLISH AT THE WORKPLACE 3	-	3.0	1.0	ENG042L	
4	2	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0		
4	2		CS PROFESSIONAL ELECTIVE 7	*	*	3.0		
4	2		FREE ELECTIVE 3	*	*	3.0		
Total				7.5+	7.5+	13.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	CS198L	COMPREHENSIVE EXAMINATION MODULE (LAB)	-	4.5	(1.0)	4th year standing	
4	3	HUM015	HISTORY OF ARTS	4.5	-	3.0		
4	3		CS PROFESSIONAL ELECTIVE 8	*	*	3.0		
4	3	IT199R-2	PRACTICUM			6.0	IT181	
Total				4.5+	4.5+	12.0		

Total Academic Units : 182.00

* SEE TABLE OF SPECS FOR ELECTIVES

ADD LECTURE AND LABORATORY HOURS OF CHOSEN ELECTIVE COURSES AS REFLECTED IN THE TABLE OF SPECS

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SOFTWARE ENGINEERING SPECIALIZATION

Required Units of Specialization : 24.00

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	2	CS121	DESIGN AND ANALYSIS OF ALGORITHM	4.5	-	3.0	CS106P	
Total				4.5	0.0	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	CS122	AUTOMATA AND LANGUAGE THEORY	4.5	-	3.0	MATH140	
Total				4.5	0.0	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	RES110P	METHODS OF RESEARCH (PAIRED)	3.0	4.5	3.0	MATH110	
Total				3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	IT150P	MULTIMEDIA SYSTEMS	3.0	4.5	3.0	IT112P	
Total				3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	CS123	MODELLING AND SIMULATION	4.5	-	3.0	MATH022	
Total				4.5	0.0	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	IT118P	ADVANCED JAVA PROGRAMMING	3.0	4.5	3.0	IT117P	
Total				3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	IT119P	GAME PROGRAMMING	3.0	4.5	3.0	IT117P	
Total				3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	CS153P	SOFTWARE ENGINEERING PROJECT	3.0	4.5	3.0	CS150P	
Total				3.0	4.5	3.0		

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NETWORKING AND DATA COMMUNICATION SPECIALIZATION

Required Units of Specialization : 24.00

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	2	CS121	DESIGN AND ANALYSIS OF ALGORITHM	4.5	-	3.0	CS106P	
Total				4.5	0.0	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	CS122	AUTOMATA AND LANGUAGE THEORY	4.5	-	3.0	MATH140	
Total				4.5	0.0	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	RES110P	METHODS OF RESEARCH (PAIRED)	3.0	4.5	3.0	MATH110	
Total				3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	CS161P	FUNDAMENTALS OF COMPUTER NETWORKS (PAIRED)	3.0	4.5	3.0	IT130	
Total				3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	CS123	MODELLING AND SIMULATION	4.5	-	3.0	MATH022	
Total				4.5	0.0	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	CS162P	PRINCIPLES OF NETWORK SECURITY (PAIRED)	3.0	4.5	3.0	IT130	
Total				3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	CS163	NETWORK ADMINISTRATION	4.5	-	3.0	IT130	
Total				4.5	0.0	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	CS164P	NETWORKING AND DATA COMM PROJECT (PAIRED)	3.0	4.5	3.0	IT130	
Total				3.0	4.5	3.0		

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FREE ELECTIVES FOR BATCH 2014

Required Units of Specialization : 9.00

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
		IT116P	OOP 6 - INTRODUCTION TO MOBILE PROGRAMMING (PAIRED)	3.0	4.5	3.0	IT117P	
		LANG120	FOREIGN LANGUAGE 1	4.5	-	3.0		
		ACT101-9	FUNDAMENTAL ACCOUNTING FOR BUSINESS	4.5	-	3.0		