



MALAYAN COLLEGES LAGUNA

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

(Curriculum applicable to students who entered as freshmen beginning school year 2013-2014)

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	MATH005	ALGEBRA	4.5	-	3.0		
1	1	SS016	PHILIPPINE HISTORY	4.5	-	3.0		
1	1	CWTS011	OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM	0.0	3.0	(2.0)		
1	1	PE021	PHYSICAL EDUCATION 1: PHYSICAL FITNESS AND GYMNASSTICS	-	2.5	(1.5)		
1	1	VE011	VALUES EDUCATION 1	1.5	-	(1.0)		
			Total	22.5	8.5	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	MATH006	PLANE AND SPHERICAL TRIGONOMETRY	4.5	-	3.0	MATH006	
1	2	CWTS012	CIVIC WELFARE TRAINING COURSE - 1	0.0	3.0	(2.0)	CWTS011	
1	2	PE022	PHYSICAL EDUCATION 2: DANCE AND MARTIAL ARTS	-	2.5	(1.5)		
			Total	22.5	5.5	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	MATH007	ANALYTIC GEOMETRY	4.5	-	3.0	MATH006	
1	3	SS018	CIVILIZATION AND DEVELOPMENT IN ASIA	4.5	-	3.0		
1	3	CWTS013	CIVIC WELFARE TRAINING COURSE - 2	0.0	3.0	(2.0)	CWTS012	
1	3	PE023	PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS	-	2.5	(1.5)		
			Total	21.0	10.0	15.0		

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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	MATH005	
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	MATH006	
2	1	PE024	PHYSICAL EDUCATION 4: ADVANCED INDIVIDUAL/DUAL SPORTS	-	2.5	(1.5)	PE023	
			Total	18.0	14.5	15.0		

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	IT127	INFORMATION MANAGEMENT	4.5	-	3.0		
2	2	MATH020	BASIC CALCULUS	4.5	-	3.0	MATH007	
2	2	PHY015	GENERAL PHYSICS	4.5	-	3.0	MATH005	
2	2	PHY015L	GENERAL PHYSICS (LAB)	-	3.0	1.0	MATH005	PHY015
2	2	VE012	VALUES EDUCATION 2	1.5	-	(1.0)	VE011	
2	2	PE025	PHYSICAL EDUCATION 5: TEAM SPORTS	-	2.5	(1.5)		
			Total	19.5	8.5	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	HUM012	PHILOSOPHY OF THE HUMAN PERSON	4.5	-	3.0		
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	PE026	PHYSICAL EDUCATION 6: ADVANCED TEAM SPORTS	-	2.5	(1.5)	PE025	
			Total	19.5	11.5	15.0		

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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	HUM013	LITERATURE AND CREATIVE ARTS	4.5	-	3.0		
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	IT111P	
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	MATH110	PROBABILITY AND STATISTICS	4.5	-	3.0	MATH005	
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		IT PROFESSIONAL ELECTIVE 1	*	*	3.0	*	*
3	2	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011	
			Total	16.5 +	9.0 +	15.0		

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		IT PROFESSIONAL ELECTIVE 2	*	*	3.0	*	*
3	3		IT PROFESSIONAL ELECTIVE 3	*	*	3.0	*	*
3	3		IT PROFESSIONAL ELECTIVE 4	*	*	3.0	*	*
			Total	9.0+	0.0+	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	
			Total	0.0+	7.5+	5.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	IT200D-1	CAPSTONE PROJECT 1	-	4.5	1.0	CS150P	
4	1	IT181	ETHICS AND I.T. LAWS	4.5	-	3.0	IT180F	
4	1		IT PROFESSIONAL ELECTIVE 5	*	*	3.0	*	*
4	1		IT PROFESSIONAL ELECTIVE 6	*	*	3.0	*	*
4	1		IT PROFESSIONAL ELECTIVE 7	*	*	3.0	*	*
4	1	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE011	
			Total	6.0+	4.5+	13.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	IT199R-1	PRACTICUM 1			3.0	IT181	
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		IT PROFESSIONAL ELECTIVE 8	*	*	3.0	*	*
4	2		FREE ELECTIVE 2	*	*	3.0	*	*
			Total	4.5+	3.0+	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	IT200D-2	CAPSTONE PROJECT 2	-	9.0	2.0	CS150P	
4	3	IT199R-2	PRACTICUM			6.0	IT181	
4	3		FREE ELECTIVE 3	*	*	3.0	*	*
			Total	4.5+	13.5+	14.0		

Total Academic Units : 176.00

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY*(Curriculum applicable to students who entered as freshmen beginning school year 2013-2014)***Required Units of Specialization : 24.00****MOBILE AND WEB TECHNOLOGY**

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	2	IT162P	PRINCIPLES OF 2D ANIMATION	3.0	4.5	3.0	3RD YEAR STANDING	
			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
3	3	IT177P	WEB TECHNOLOGY	3.0	4.5	3.0		
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	IT116P	OOP 6 - INTRODUCTION TO MOBILE PROGRAMMING (PAIRED)	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	1	IT173P	GAME DESIGN AND DEVELOPMENT	3.0	4.5	3.0		
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	IT178P	ADVANCED MOBILE PROGRAMMING 1	3.0	4.5	3.0		
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	IT179P	ADVANCED MOBILE PROGRAMMING 2	3.0	4.5	3.0		
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	IT180P	MOBILE AND WEB TECHNOLOGY PROJECT	3.0	4.5	3.0		
			Total	3.0	4.5	3.0		

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY*(Curriculum applicable to students who entered as freshmen beginning school year 2013-2014)***Required Units of Specialization : 24.00****DIGITAL ANIMATION**

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	2	IT161P	DIGITAL DRAWING	3.0	4.5	3.0	3RD YEAR STANDING	
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	IT162P	PRINCIPLES OF 2D ANIMATION	3.0	4.5	3.0		
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	IT163P	AUDIO DESIGN AND SOUND ENGINEERING	3.0	4.5	3.0		
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	IT164P	PRINCIPLES OF 3D ANIMATION	3.0	4.5	3.0		
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	IT165P	DESIGN AND PRODUCTION PROCESS	3.0	4.5	3.0		
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	IT166P	MODELLING AND RIGGING	3.0	4.5	3.0		
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	IT167P	LIGHTS AND EFFECTS	3.0	4.5	3.0		
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	IT168P	IMAGE AND VIDEO PRODUCTION	3.0	4.5	3.0		
			Total	3.0	4.5	3.0		

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY*(Curriculum applicable to students who entered as freshmen beginning school year 2013-2014)***Required Units of Specialization : 24.00****GAME DEVELOPMENT**

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	2	IT170	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	4.5	-	3.0	3RD YEAR STANDING	
			Total	4.5	0.0	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	IT162P	PRINCIPLES OF 2D ANIMATION	3.0	4.5	2.0		
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	IT171P	COMPUTER GRAPHICS	3.0	4.5	2.0		
			Total	3.0	4.5	2.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	IT172P	GAME PROGRAMMING	3.0	4.5	2.0		
			Total	3.0	4.5	2.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	IT173P	GAME DESIGN AND DEVELOPMENT	3.0	4.5	2.0		
			Total	3.0	4.5	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	IT174P	GAME NETWORKING	3.0	4.5	2.0		
			Total	3.0	4.5	2.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	IT175P	GAME PRODUCTION	3.0	4.5	2.0		
			Total	3.0	4.5	2.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	IT176P	GAME DEVELOPMENT PROJECT	3.0	4.5	2.0		
			Total	3.0	4.5	2.0		

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY*(Curriculum applicable to students who entered as freshmen beginning school year 2013-2014)*

Required Units of Free Electives : 9.00

FREE ELECTIVES FOR BATCH 2013 (for Game Development and Digital Animation)

		Code	Title	Lec Hrs	Lab Hrs	Credit Lec Units	Prerequisites	Co-requisites
		IT116P	OOP 6 - INTRODUCTION TO MOBILE PROGRAMMING (PAIRED)	3.0	4.5	2.0	IT117P	
		LANG120	FOREIGN LANGUAGE 1	4.5	-	3.0		
		ACT101-9	FUNDAMENTAL ACCOUNTING FOR BUSINESS	4.5	-	3.0		

FREE ELECTIVES FOR BATCH 2013 (for MOBILE and WEB Technology)

		Code	Title	Lec Hrs	Lab Hrs	Credit Lec Units	Prerequisites	Co-requisites
		IT164P	PRINCIPLES OF 3D ANIMATION	3.0	4.5	2.0		
		LANG120	FOREIGN LANGUAGE 1	4.5	-	3.0		
		ACT101-9	FUNDAMENTAL ACCOUNTING FOR BUSINESS	4.5	-	3.0		