



# MALAYAN COLLEGES LAGUNA

## COMPUTER ENGINEERING

(Curriculum applicable to students who entered as freshmen beginning school year 2011-2012)

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
			OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM	3.0	-	(2.0)				CNSTP
1	1	CWTS011								
1	1	DRAW021W	ENGINEERING DRAWING 1 (DRAW)	-	3.0	1.0				DBS
1	1	ENG021	ENGLISH FOR ACADEMIC STUDIES 1	4.5	-	3.0				DBS
1	1	HUM011	LOGIC REASONING WITH CRITICAL THINKING	4.5	-	3.0				DBS
1	1	MATH011	ALGEBRA	4.5	-	3.0				DBS
			PHYSICAL EDUCATION 1: PHYSICAL FITNESS AND GYMNASTICS	-	2.5	(1.5)				DBS
1	1	PE021								
1	1	SS016	PHILIPPINE HISTORY	4.5	-	3.0				DBS
1	1	VE011	VALUES EDUCATION 1	1.5	-	(1.0)				DBS
<b>Total</b>				<b>22.5</b>	<b>5.5</b>	<b>13.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
1	2	CWTS012	CIVIC WELFARE TRAINING COURSE - 1	3.0	-	(2.0)	CWTS011			CNSTP
1	2	DRAW022W	ENGINEERING DRAWING 2 (DRAW)	-	3.0	1.0	DRAW021W			DBS
1	2	ENG022	ENGLISH FOR ACADEMIC STUDIES 2	4.5	-	3.0	ENG021			DBS
1	2	HUM016	ADVANCED LOGIC AND REASONING	4.5	-	3.0	HUM011			DBS
1	2	MATH011-2	ADVANCED ALGEBRA	3.0	-	2.0	MATH011			DBS
1	2	MATH012	PLANE AND SPHERICAL TRIGONOMETRY	4.5	-	3.0	MATH011			DBS
			PHYSICAL EDUCATION 2: DANCE AND MARTIAL ARTS	-	2.5	(1.5)				DBS
1	2	PE022								
			POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION	4.5	-	3.0				DBS
1	2	SS015								
<b>Total</b>				<b>24.0</b>	<b>5.5</b>	<b>15.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
1	3	CWTS013	CIVIC WELFARE TRAINING COURSE - 2	3.0	-	(2.0)	CWTS012			CNSTP
1	3	DRAW023L	COMPUTER-AIDED DRAFTING & DESIGN (LAB)	-	3.0	1.0	DRAW022W			DBS
1	3	ENG023	ENGLISH FOR ACADEMIC STUDIES 3	4.5	-	3.0	ENG022			DBS
1	3	HUM014	PHILIPPINE LITERATURE IN ENGLISH	4.5	-	3.0				DBS
1	3	MATH013	ANALYTIC GEOMETRY	4.5	-	3.0	MATH012			DBS
1	3	MATH014	SOLID MENSURATION	3.0	-	2.0	MATH012			DBS
1	3	MATH021	CALCULUS 1	4.5	-	3.0	MATH012	MATH013		DBS
1	3	PE023	PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS	-	2.5	(1.5)				DBS
<b>Total</b>				<b>24.0</b>	<b>5.5</b>	<b>15.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
2	1	CHM021	GENERAL CHEMISTRY 1	3.0	-	2.0				DBS
2	1	CHM021L	GENERAL CHEMISTRY 1 (LAB)	-	3.0	1.0		CHM021		DBS
2	1	CS001P	COMPUTER FUNDAMENTALS & PROGRAMMING 1 (PAIRED)	1.5	3.0	2.0				MITL
2	1	MATH022	CALCULUS 2	4.5	-	3.0	MATH013, , MATH021			DBS
2	1	PE024	PHYSICAL EDUCATION 4: ADVANCED INDIVIDUAL/DUAL SPORTS	-	2.5	(1.5)	PE023			DBS
2	1	PHY021	PHYSICS 1	4.5	-	3.0	MATH021			DBS
2	1	PHY021L	PHYSICS 1 (LAB)	-	3.0	1.0	MATH021	PHY021		DBS
2	1	SS017	SOCIETY,CULTURE AND FAMILY LIFE	4.5	-	3.0				DBS
<b>Total</b>				<b>18.0</b>	<b>11.5</b>	<b>15.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
2	2	CHM022	GENERAL CHEMISTRY 2	3.0	-	2.0	CHM021			DBS
2	2	CHM022L	GENERAL CHEMISTRY 2 (LAB)	-	3.0	1.0	CHM021, , CHM021L	CHM022		DBS
2	2	CS002P	COMPUTER FUNDAMENTALS & PROGRAMMING 2 (PAIRED)	1.5	3.0	2.0	CS001P			MITL
2	2	MATH023	CALCULUS 3	4.5	-	3.0	MATH022			DBS
2	2	PE025	PHYSICAL EDUCATION 5: TEAM SPORTS	-	2.5	(1.5)				DBS

2	2	PHY022	PHYSICS 2	4.5	-	3.0	MATH022, , PHY021		DBS
2	2	PHY022L	PHYSICS 2 (LAB)	-	3.0	1.0	MATH022, , PHY021, , PHY021L	PHY022	DBS
2	2	SS013	ECONOMICS, TAXATION AND AGRARIAN REFORM	4.5	-	3.0			DBS
<b>Total</b>				<b>18.0</b>	<b>11.5</b>	<b>15.0</b>			

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
2	3	CHM023	GENERAL CHEMISTRY 3	3.0	-	2.0	CHM022			DBS
2	3	CHM023L	GENERAL CHMISTRY 3 (LAB)	-	3.0	1.0	CHM022, , CHM022L	CHM023		DBS
2	3	ECE121P	INTRODUCTION TO MATLAB (PAIRED)	1.5	3.0	1.0	Standing			MITL
2	3	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	-	3.0				DBS
2	3	MATH025	DIFFERENTIAL EQUATIONS	4.5	-	3.0	MATH023			DBS
2	3	PE026	PHYSICAL EDUCATION 6: ADVANCED TEAM SPORTS	-	2.5	(1.5)	PE025			DBS
2	3	PHY023	PHYSICS 3	4.5	-	3.0	PHY022			DBS
2	3	PHY023L	PHYSICS 3 (LAB)	-	3.0	1.0	PHY022, , PHY022L	PHY023		DBS
2	3	VE012	VALUES EDUCATION 2	1.5	-	(1.0)	VE011			DBS
<b>Total</b>				<b>19.5</b>	<b>11.5</b>	<b>14.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
2	4	FIL002	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	4.5	-	3.0	FIL001			DBS
2	4	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, , PHY022			DBS
<b>Total</b>				<b>9.0</b>	<b>0.0</b>	<b>6.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
3	1	CPE111L	COMPUTER HARDWARE FUNDAMENTALS (LAB)	-	4.5	1.0	CS002P, , PHY023, , PHY023L			MITL
3	1	CPE121L	COMPUTER ENGINEERING DRAFTING AND DESIGN (LAB)	-	4.5	1.0	3rd Year Standing MATH025, ,			MITL
3	1	EE101	CIRCUITS 1	4.5	-	3.0	PHY023 MATH025, , PHY023, ,			MITL
3	1	EE101L	CIRCUITS 1 (LAB)	-	4.5	1.0	PHY023L	EE101		MITL
3	1	MATH110	PROBABILITY AND STATISTICS	4.5	-	3.0	MATH011			DBS
3	1	MATH115	ADVANCED ENGINEERING MATHEMATICS	4.5	-	3.0	MATH025			MITL
3	1	MEC102	DYNAMICS OF RIGID BODIES	3.0	-	2.0	MEC101			DBS
3	1	SAF101	SAFETY MANAGEMENT	1.5	-	1.0	3rd Year Standing			MITL
<b>Total</b>				<b>18.0</b>	<b>13.5</b>	<b>15.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
3	2	CS106	DATA STRUCTURES AND ALGORITHM ANALYSIS	4.5	-	3.0	CS002P			CIT
3	2	CS106L	DATA STRUCTURES AND ALGORITHM ANALYSIS (LAB)	-	4.5	1.0	CS002P	CS106		CIT
3	2	ECE101	ELECTRONIC DEVICES AND CIRCUITS	4.5	-	3.0	EE101 EE101, ,			MITL
3	2	ECE101L	ELECTRONIC DEVICES AND CIRCUITS (LAB)	-	4.5	1.0	EE101L	ECE101		MITL
3	2	EE102	CIRCUITS 2	4.5	-	3.0	EE101 EE101, ,			MITL
3	2	EE102L	CIRCUITS 2 (LAB)	-	4.5	1.0	EE101L	EE102		MITL
3	2	MEC103	MECHANICS OF DEFORMABLE BODIES	4.5	-	3.0	MEC101			DBS
<b>Total</b>				<b>18.0</b>	<b>13.5</b>	<b>15.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
3	3	BEC198	BASIC ENGINEERING CORRELATION	-	3.0	(1.0)	CHM023, , MATH115, , PHY023			MITL
3	3	CPE101	LOGIC CIRCUITS AND SWITCHING THEORY	4.5	-	3.0	ECE101			MITL
3	3	CPE101L	LOGIC CIRCUITS AND SWITCHING THEORY (LAB)	-	4.5	1.0	ECE101, , ECE101L	CPE101		MITL
3	3	ECE102	ELECTRONIC CIRCUIT ANALYSIS AND DESIGN	4.5	-	3.0	ECE101			MITL
3	3	ECE102L	ELECTRONIC CIRCUIT ANALYSIS AND DESIGN (LAB)	-	4.5	1.0	ECE101, , ECE101L	ECE102		MITL
3	3	IT111P	OOP 1 - CONCEPTS IN OBJECT ORIENTED PROGRAMMING (PAIRED)	3.0	4.5	3.0	CS106			CIT
3	3	RES101P	METHODS OF RESEARCH (PAIRED)	1.5	3.0	2.0	MATH110			MITL
3	3	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011			DBS
<b>Total</b>				<b>15.0</b>	<b>19.5</b>	<b>13.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
4	1	CPE102P	ADVANCED LOGIC CIRCUITS AND SWITCHING THEORY (PAIRED)	4.5	4.5	4.0	CPE101			MITL
4	1	CPE131	COMPUTER SYSTEMS ORGANIZATION WITH ASSEMBLY LANGUAGE PROGRAMMING	4.5	-	3.0	CS106			MITL
4	1	CPE131L	COMPUTER SYSTEMS ORGANIZATION WITH ASSEMBLY LANGUAGE PROGRAMMING (LAB)	-	4.5	1.0	CS106	CPE131		MITL
4	1	ECE133	CONTROL SYSTEMS	4.5	-	3.0	ECE102, , EE102			MITL
4	1	ECE133L	CONTROL SYSTEMS (LAB)	-	4.5	1.0	ECE102, , ECE102L, , EE102, , EE102L	ECE133		MITL
4	1	ENG041L	ENGLISH FOR THE WORKPLACE 1	-	3.0	1.0	ENG023			DBS
<b>Total</b>				<b>13.5</b>	<b>16.5</b>	<b>13.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
4	2	CPE103	MICROPROCESSOR SYSTEM	4.5	-	3.0	CPE101 CPE101, ,			MITL
4	2	CPE103L	MICROPROCESSOR SYSTEM (LAB)	-	4.5	1.0	CPE101L	CPE103		MITL
4	2	CPE132	COMPUTER SYSTEM ARCHITECTURE	4.5	-	3.0	CPE131 CPE131, ,			MITL
4	2	CPE132L	COMPUTER SYSTEM ARCHITECTURE (LAB)	-	4.5	1.0	CPE131L	CPE132		MITL
4	2	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L			DBS
4	2	MATH140	DISCRETE MATHEMATICS JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0	MATH011			DBS
4	2	SS014		4.5	-	3.0				DBS
<b>Total</b>				<b>18.0</b>	<b>12.0</b>	<b>15.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
4	3	CPE104P	MEMORY AND INPUT/OUTPUT SYSTEMS (PAIRED)	3.0	4.5	3.0	CPE103			MITL
4	3	CPE151	OPERATING SYSTEMS	4.5	-	3.0	CPE131 CPE131, ,			MITL
4	3	CPE151L	OPERATING SYSTEMS (LAB)	-	4.5	1.0	CPE131L CPE131L, , CPE102P, , CPE103, , CPE132, , ECE133, ,	CPE151		MITL
4	3	CPE198	CPE CORRELATION 1	-	3.0	(1.0)	MATH140 ECE102, ,			MITL
4	3	ECE141	COMMUNICATIONS 1	4.5	-	3.0	MATH115			MITL
4	3	ENG043L	ENGLISH FOR THE WORKPLACE 3	-	3.0	1.0	ENG042L			DBS
4	3	MATH160	NUMERICAL METHODS	4.5	-	3.0	MATH025			MITL
4	3	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE013			DBS
<b>Total</b>				<b>18.0</b>	<b>15.0</b>	<b>14.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
4	4	CPE199R	CPE PRACTICUM	-	20.0	3.0				MITL
<b>Total</b>				<b>0.0</b>	<b>20.0</b>	<b>3.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	1	CPE200D-3	CPE CAPSTONE PROJECT 1 (DESIGN)	-	1.5	1.0	RES101P CS106, ,			MITL
5	1	CS103P	SYSTEM ANALYSIS AND DESIGN (PAIRED)	3.0	4.5	3.0	IT111P			CIT
5	1	CS150	SOFTWARE ENGINEERING	4.5	-	3.0	CS106 CHM023, ,			CIT
5	1	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0	CHM023L 5th Year			MITL
5	1	MGT110	ENTREPRENEURSHIP AND MANAGEMENT	4.5	-	3.0	Standing			ETYCBL
<b>Total</b>				<b>15.0</b>	<b>6.0</b>	<b>12.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	2	CPE191F	CPE SEMINARS AND FIELD TRIPS (FIELD)	-	4.5	1.0	5th Year Standing			MITL
5	2	CPE200D-4	CPE CAPSTONE PROJECT 2 (DESIGN)	-	1.5	1.0	CPE200D-3 ECE121P, ,			MITL
5	2	ECE121	SIGNALS, SPECTRA AND SIGNAL PROCESSING	4.5	-	3.0	MATH110, , MATH115			MITL
5	2	ECE121L	SIGNALS, SPECTRA AND SIGNAL PROCESSING (LAB)	-	4.5	1.0	ECE121P, , MATH110, , MATH115	ECE121		MITL
5	2	EEO101	ENGINEERING ECONOMY	4.5	-	3.0				MITL
5	2	IT130-1	DATA COMMUNICATIONS AND INTRODUCTION TO NETWORK TECHNOLOGIES	4.5	-	3.0	ECE141			CIT
<b>Total</b>				<b>13.5</b>	<b>10.5</b>	<b>12.0</b>				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	3	CPE181	ENGINEERING ETHICS AND COMPUTER LAWS	3.0	-	2.0	5th Year Standing			MITL

							CPE104P, ,		
							CPE151, ,		
							CS103P, ,		
							CS150, ,		
							ECE121, ,		
							EECO101, ,		
							IT130-1, ,		
5	3	CPE198-1	CPE CORRELATION 2	-	3.0	(1.0)	MATH160		MITL
5	3	CPE200D-5	CPE CAPSTONE PROJECT 3 (DESIGN)	-	1.5	1.0	CPE200D-4		MITL
5	3	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0			MITL
5	3	IT131	COMPUTER NETWORKS	4.5	-	3.0	IT130-1		CIT
5	3	IT131L	COMPUTER NETWORKS (LAB)	-	4.5	1.0	IT130-1	IT131	CIT
<b>Total</b>				<b>12.0</b>	<b>9.0</b>	<b>10.0</b>			

## ELECTIVES FOR BATCH 2011

Elective Type: COE FREE ELECTIVES

Required Units: 9.00

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	1	CPE161P-1	EMBEDDED SYSTEMS	3.0	3.0	3.0				MITL
<b>Total</b>				<b>3.0</b>	<b>3.0</b>	<b>3.0</b>				
5	2	CPE161P-2	MICROELECTRONICS	3.0	3.0	3.0				MITL
<b>Total</b>				<b>3.0</b>	<b>3.0</b>	<b>3.0</b>				
5	3	CPE161P-3	INSTRUMENTATION AND CONTROL	3.0	3.0	3.0				MITL
<b>Total</b>				<b>3.0</b>	<b>3.0</b>	<b>3.0</b>				

Total Academic Units : 224.00