



MALAYAN COLLEGES LAGUNA

ELECTRONICS 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
			Total	22.5	5.5	13.0				

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								
			Total	24.0	5.5	15.0				

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
Total				24.0	5.5	15.0				

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
Total				18.0	11.5	15.0				

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
Total				18.0	11.5	15.0			

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
Total				19.5	11.5	14.0				

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
Total				9.0	0.0	6.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
3	1	ECE113	ELECTROMAGNETICS 1	4.5	-	3.0	MATH022			MITL
3	1	EE101	CIRCUITS 1	4.5	-	3.0	MATH025, , PHY023			MITL

3	1	EE101L	CIRCUITS 1 (LAB)	-	4.5	1.0	MATH025, , PHY023, , 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
Total				21.0	4.5	15.0			

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
3	2	ECE101	ELECTRONIC DEVICES AND CIRCUITS	4.5	-	3.0	EE101			MITL
3	2	ECE101L	ELECTRONIC DEVICES AND CIRCUITS (LAB)	-	4.5	1.0	EE101, , EE101L	ECE101		MITL
3	2	ECE113-1	ELECTROMAGNETICS 2	4.5	-	3.0	ECE113, , PHY023			MITL
3	2	EE102	CIRCUITS 2	4.5	-	3.0	EE101			MITL
3	2	EE102L	CIRCUITS 2 (LAB)	-	4.5	1.0	EE101, , EE101L	EE102		MITL
3	2	MEC103	MECHANICS OF DEFORMABLE BODIES	4.5	-	3.0	MEC101			DBS
3	2	SAF101	SAFETY MANAGEMENT	1.5	-	1.0	3rd Year Standing			MITL
Total				19.5	9.0	15.0				

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	ME111	THERMODYNAMICS	4.5	-	3.0	MATH023, , PHY023			MITL
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
Total				16.5	15.0	13.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
4	1	CPE103	MICROPROCESSOR SYSTEM	4.5	-	3.0	CPE101			MITL
4	1	CPE103L	MICROPROCESSOR SYSTEM (LAB)	-	4.5	1.0	CPE101, , CPE101L	CPE103		MITL
4	1	ECE103	ELECTRONICS 3	4.5	-	3.0	ECE102			MITL
4	1	ECE103L	ELECTRONICS 3 (LAB)	-	4.5	1.0	ECE102, , ECE102L	ECE103		MITL
4	1	ECE141	COMMUNICATIONS 1	4.5	-	3.0	ECE102, , MATH115			MITL
4	1	ECE141L	COMMUNICATIONS 1 (LAB)	-	4.5	1.0	ECE102, , MATH115	ECE141		MITL
4	1	ENG041L	ENGLISH FOR THE WORKPLACE 1	-	3.0	1.0	ENG023			DBS
Total				13.5	16.5	13.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
4	2	ECE131	FEEDBACK AND CONTROL SYSTEMS	4.5	-	3.0	ECE102, , ECE121P, , MATH115			MITL
4	2	ECE131L	FEEDBACK AND CONTROL SYSTEMS (LAB)	-	4.5	1.0	ECE102, , ECE102L, , ECE121P, , MATH115	ECE131		MITL
4	2	ECE142	COMMUNICATIONS 2	4.5	-	3.0	ECE141			MITL
4	2	ECE142L	COMMUNICATIONS 2 (LAB)	-	4.5	1.0	ECE141	ECE142		MITL
4	2	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L			DBS
4	2	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011			DBS
4	2	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0				DBS
Total				18.0	12.0	15.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
4	3	ECE143	COMMUNICATIONS 3	4.5	-	3.0	ECE113-1, , ECE142			MITL
4	3	ECE143L	COMMUNICATIONS 3 (LAB)	-	4.5	1.0	ECE113-1, , ECE142, , ECE142L	ECE143		MITL

							CPE103, , ECE103, , ECE131, , ECE142, , ME111, , MEC102, ,		
4	3	ECE198	ECE CORRELATION 1	-	3.0	(1.0)	MEC103		MITL
4	3	ENG043L	ENGLISH FOR THE WORKPLACE 3	-	3.0	1.0	ENG042L		DBS
4	3	IT130-2	DATA COMMUNICATIONS	4.5	-	3.0	ECE142		CIT
4	3	IT130L-2	DATA COMMUNICATIONS (LAB)	-	4.5	1.0	ECE142, , ECE142L	IT130-2	CIT
4	3	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE013		DBS
Total				10.5	15.0	9.0			

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	1	ECE200D-1	ECE CAPSTONE PROJECT 1	-	1.5	1.0	RES101P			MITL
5	1	EE112	ELECTROMECHANICAL ENERGY CONVERSION	4.5	-	3.0	EE102			MITL
5	1	EE112L	ELECTROMECHANICAL ENERGY CONVERSION (LAB)	-	4.5	1.0	EE102, , EE102L	EE112		MITL
5	1	EECO101	ENGINEERING ECONOMY	4.5	-	3.0				MITL
5	1	MATH160	NUMERICAL METHODS	4.5	-	3.0	MATH025			MITL
5	1	MATH160L	NUMERICAL METHODS (LAB)	-	4.5	1.0	MATH025	MATH160		MITL
Total				13.5	10.5	12.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	2	ECE121	SIGNALS, SPECTRA AND SIGNAL PROCESSING	4.5	-	3.0	ECE121P, , MATH110, , MATH115			MITL
5	2	ECE121L	SIGNALS, SPECTRA AND SIGNAL PROCESSING (LAB)	-	4.5	1.0	ECE121P, , MATH110, , MATH115	ECE121		MITL
5	2	ECE181	ECE LAWS, CODES AND ETHICS	4.5	-	3.0	5th Year Standing			MITL
5	2	ECE200D-2	ECE CAPSTONE PROJECT 2	-	1.5	1.0	ECE200D-1			MITL
5	2	MSE101	FUNDAMENTALS OF MATERIAL SCIENCE AND ENGINEERING	4.5	-	3.0	CHM023, , PHY023			MITL
Total				13.5	6.0	11.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	3	ECE191F	ECE SEMINARS AND FIELD TRIPS (FIELD)	-	4.5	1.0	5th Year Standing ECE121, , ECE143, , ECE181, , EE112, , EECO101, , IT130-2, ,			MITL
5	3	ECE198-1	ECE CORRELATION 2	-	3.0	(1.0)	MATH160			MITL
5	3	ECE200D-3	ECE CAPSTONE PROJECT 3	-	1.5	1.0	ECE200D-2 CHM023, , CHM023L			MITL
5	3	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0				MITL
5	3	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0				MITL
Total				7.5	9.0	7.0				

ELECTIVES FOR BATCH 2011

Elective Type: ECE FREE ELECTIVES 2011 (12)

Required Units: 12.00

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
4	3	ECE135P	INDUSTRIAL CONTROL AND INSTRUMENTATION SYSTEMS	3.0	3.0	3.0	ECE103, , ECE103L, , ECE131, , ECE131L			MITL
Total				3.0	3.0	3.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	1	ECE145P-1	MICROWAVE AND SATELLITE COMMUNICATIONS	3.0	3.0	3.0	ECE143, , ECE143L			MITL
Total				3.0	3.0	3.0				

Year	Term Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	2	ECE145P-2	3.0	3.0	3.0	ECE143, , ECE143L, , IT130-2, , IT130L-2			MITL
		Total	3.0	3.0	3.0				

Year	Term Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	3	ECE145P-3	3.0	3.0	3.0	ECE143, , ECE143L			MITL
		Total	3.0	3.0	3.0				

Total Academic Units : 215.00