



MALAYAN COLLEGES LAGUNA

CIVIL 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	HUM014	PHILIPPINE LITERATURE IN ENGLISH	4.5	-	3.0				DBS
1	1	MATH011	ALGEBRA	4.5	-	3.0				DBS
1	1	PE021	PHYSICAL EDUCATION 1: PHYSICAL FITNESS AND GYMNASTICS	-	2.5	(1.5)				DBS
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	HUM011	LOGIC REASONING WITH CRITICAL THINKING	4.5	-	3.0				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
1	2	PE022	PHYSICAL EDUCATION 2: DANCE AND MARTIAL ARTS	-	2.5	(1.5)				DBS
1	2	SS015	POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION	4.5	-	3.0				DBS
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 COMPUTER-AIDED DRAFTING DRAFTING &	3.0	-	(2.0)	CWTS012			CNSTP
1	3	DRAW023L	DESIGN (LAB)	-	3.0	1.0	DRAW022W			DBS
1	3	ENG023	ENGLISH FOR ACADEMIC STUDIES 3	4.5	-	3.0	ENG022			DBS
1	3	HUM016	ADVANCED LOGIC AND REASONING	4.5	-	3.0	HUM011			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 PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL	4.5	-	3.0	MATH012	MATH013		DBS
1	3	PE023	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) COMPUTER FUNDAMENTALS & PROGRAMMING 1	-	3.0	1.0		CHM021		DBS
2	1	CS001P	(PAIRED)	1.5	3.0	2.0				MITL
2	1	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	-	3.0				DBS
2	1	MATH022	CALCULUS 2 PHYSICAL EDUCATION 4: ADVANCED	4.5	-	3.0	MATH013, , MATH021			DBS
2	1	PE024	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
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) COMPUTER FUNDAMENTALS & PROGRAMMING 2	-	3.0	1.0	CHM021, , CHM021L	CHM022		DBS
2	2	CS002P	(PAIRED) PAGBASA AT PAGSULAT TUNGO SA	1.5	3.0	2.0	CS001P			MITL
2	2	FIL002	PANANALIKSIK	4.5	-	3.0	FIL001			DBS

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
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 CHEMISTRY 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	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	SS013	ECONOMICS, TAXATION AND AGRARIAN REFORM	4.5	-	3.0				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
3	1	EE104	BASIC ELECTRICAL ENGINEERING	4.5	-	3.0	PHY023, , PHY023L			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	ME123	BASIC MECHANICAL ENGINEERING	4.5	-	3.0	PHY023, , PHY023L			MITL
3	1	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, , PHY022			DBS
Total				22.5	0.0	15.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
3	2	CE101	SURVEYING 1	4.5	-	3.0	MATH011-2, , MATH012			MITL
3	2	CE101F	SURVEYING 1 (FIELD)	-	4.5	1.0	MATH012	CE101		MITL
3	2	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011			DBS
3	2	MEC102	DYNAMICS OF RIGID BODIES	3.0	-	2.0	MEC101			DBS
3	2	RES101P	METHODS OF RESEARCH (PAIRED) JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	1.5	3.0	2.0	MATH110			MITL
3	2	SS014	FILIPINO NATIONALISM	4.5	-	3.0				DBS
Total				18.0	7.5	14.0				

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	CE102	SURVEYING 2	4.5	-	3.0	CE101			MITL
3	3	CE102F	SURVEYING 2 (FIELD)	-	4.5	1.0	CE101, , CE101F	CE102		MITL
3	3	CE121	MECHANICS OF FLUIDS	3.0	-	2.0	MEC102			MITL
3	3	CE121L	MECHANICS OF FLUIDS (LAB)	-	4.5	1.0	MEC102	CE121		MITL
3	3	CE131P	STRUCTURAL THEORY 1 (PAIRED)	4.5	4.5	4.0	MEC101	MEC103		MITL
3	3	MEC103	MECHANICS OF DEFORMABLE BODIES	4.5	-	3.0	MEC101			DBS
3	3	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011			DBS
Total				18.0	16.5	14.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
3	4	SS017	SOCIETY,CULTURE AND FAMILY LIFE	4.5	-	3.0				DBS
Total				4.5	0.0	3.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
4	1	CE101P	BUILDING DESIGN 1 (PAIRED)	1.5	4.5	2.0	DRAW022W CE121, ,			MITL
4	1	CE122	HYDROLOGY	4.5	-	3.0	CE121L			MITL
4	1	CE123	HYDRAULICS	3.0	-	2.0	CE121 CE121, ,			MITL
4	1	CE123L	HYDRAULICS (LAB)	-	4.5	1.0	CE121L CE131P, ,	CE123		MITL
4	1	CE132P	STRUCTURAL THEORY 2 (PAIRED)	4.5	4.5	4.0	MATH115			MITL
4	1	ENG041L	ENGLISH FOR THE WORKPLACE 1	-	3.0	1.0	ENG023 4th Year Standing			DBS
4	1	SAF101	SAFETY MANAGEMENT	1.5	-	1.0				MITL
Total				15.0	16.5	14.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
4	2	CE101P-1	BUILDING DESIGN 2 (PAIRED)	1.5	4.5	2.0	CE101P CE102, ,			MITL
4	2	CE103	HIGHWAY ENGINEERING	4.5	-	3.0	CE102F			MITL
4	2	CE133	STRUCTURAL DESIGN 1: RCD	4.5	-	3.0	CE132P			MITL
4	2	CE133L	STRUCTURAL DESIGN 1: RCD (LAB)	-	4.5	1.0	CE132P	CE133		MITL
4	2	CE151	GEOTECHNICAL ENGINEERING 1	4.5	-	3.0	MEC103			MITL
4	2	CE151L	GEOTECHNICAL ENGINEERING 1 (LAB)	-	4.5	1.0	MEC103	CE151		MITL
4	2	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L			DBS
Total				15.0	16.5	14.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
4	3	CE134	STRUCTURAL DESIGN 2: STEEL & TIMBER	4.5	-	3.0	CE133			MITL
4	3	CE134L	STRUCTURAL DESIGN 2: STEEL & TIMBER (LAB)	-	4.5	1.0	CE133L	CE134		MITL
4	3	CE152	GEOTECHNICAL ENGINEERING 2 (FOUNDATION)	4.5	-	3.0	CE151			MITL
4	3	CE152L	GEOTECHNICAL ENGINEERING 2 (LAB)	-	4.5	1.0	CE151	CE152		MITL
4	3	CE198	CE CORRELATION 1	-	3.0	(1.0)	CE101, , CE101P, , CE102, , CE103, ,	EECO101		MITL
4	3	EECO101	ENGINEERING ECONOMY	4.5	-	3.0	CE133, , CE151			MITL
4	3	ENG043L	ENGLISH FOR THE WORKPLACE 3	-	3.0	1.0	ENG042L			DBS
4	3	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE013			DBS
Total				15.0	15.0	12.0				

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	1	CE105	TRANSPORTATION ENGINEERING	4.5	-	3.0	CE103			MITL
5	1	CE141	CONSTRUCTION MATERIALS & TESTING	3.0	-	2.0	MEC103			MITL
5	1	CE141L	CONSTRUCTION MATERIALS & TESTING (LAB)	-	4.5	1.0	MEC103	CE141		MITL
5	1	CE200D-3	CE CAPSTONE PROJECT 1	-	1.5	1.0	RES101P 5th Year			MITL
5	1	CE200P	CE DESIGN PROJECT STUDY 1 (PAIRED)	1.5	4.5	2.0	Standing			MITL
5	1	MATH160	NUMERICAL METHODS	4.5	-	3.0	MATH025			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	CE124	WATER RESOURCES ENGINEERING	4.5	-	3.0	CE123			MITL
5	2	CE142	CONSTRUCTION METHODS AND PROJECT MANAGEMENT	4.5	-	3.0	5th Year Standing			MITL
5	2	CE142L	CONSTRUCTION METHODS AND PROJECT MANAGEMENT (LAB)	-	4.5	1.0	5th Year Standing	CE142		MITL
5	2	CE200-1D	CE DESIGN PROJECT STUDY 2	-	4.5	1.0	CE200P			MITL

5	2	CE200D-4	CE CAPSTONE PROJECT 2	-	1.5	1.0	CE200D-3 CHM023, , CHM023L	MITL
5	2	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0		MITL
Total				12.0	10.5	11.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	3	CE181	CE LAWS, CONTRACTS AND ETHICS	4.5	-	3.0	5th Year Standing			MITL
5	3	CE198-1	CE CORRELATION 2	-	3.0	(1.0)	CE101P-1, , CE105, , CE124, , CE134, , CE141, , CE142, , CE151, ,			MITL
5	3	CE200-2D	CE DESIGN PROJECT STUDY 3	-	4.5	1.0	CE152, , CE198			MITL
5	3	CE200D-5	CE CAPSTONE PROJECT 3	-	1.5	1.0	CE200-1D CE200D-4			MITL
5	3	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0				MITL
5	3	MSE101	FUNDAMENTALS OF MATERIAL SCIENCE AND ENGINEERING	4.5	-	3.0				MITL
Total				13.5	9.0	11.0				

ELECTIVES FOR BATCH 2011

Elective Type: CE ELECTIVE SERIES 2011

Required Units: 12.00

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
4	3	CE133-1	EARTHQUAKE ENGINEERING	4.5	-	3.0				MITL
Total				4.5	0.0	3.0				

Year	Term Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Paired	Care Taker
5	1	CE133-2 PRESTRESSED CONCRETE DESIGN	4.5	-	3.0	CE133-1			MITL
Total			4.5	0.0	3.0				
5	2	CE133-3 BRIDGE ENGINEERING	4.5	-	3.0				MITL
Total			4.5	0.0	3.0				
5	3	CE133-4 SPECIAL TOPICS IN STRUCTURAL ENGINEERING	4.5	-	3.0	CE133-3			MITL
Total			4.5	0.0	3.0				

Total Academic Units : 219.00