

BACHELOR OF SCIENCE IN CIVIL ENGINEERING (B.S. CE)

(Curriculum applicable to students who entered as freshmen beginning school year 2015-2016)

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	1	CHM021	GENERAL CHEMISTRY 1	3.0	-	2.0	None	None
1	1	CHM021L	GENERAL CHEMISTRY 1 (LAB)	-	3.0	1.0	None	CHM021
1	1	DRAW021W	ENGINEERING DRAWING 1 (DRAW)	-	3.0	1.0	None	None
1	1	ENG021	ENGLISH FOR ACADEMIC STUDIES 1	4.5	-	3.0	None	None
1	1	MATH011	ALGEBRA	4.5	-	3.0	None	None
1	1	NSTP010	OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM	3.0	-	(3.0)	None	None
1	1	PE011	PHYSICAL EDUCATION 1: PHYSICAL FITNESS AND GYMNASTICS	-	3.0	(2.0)	None	None
1	1	SS016	PHILIPPINE HISTORY	4.5	-	3.0	None	None
1	1	VE011	VALUES EDUCATION 1	1.5	-	(1.0)	None	None
Total				21.0	9.0	13.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	2	CHM022	GENERAL CHEMISTRY 2	3.0	-	2.0	CHM021	None
1	2	CHM022L	GENERAL CHEMISTRY 2 (LAB)	-	3.0	1.0	CHM021, CHM021L	CHM022
1	2	DRAW022W	ENGINEERING DRAWING 2 (DRAW)	-	3.0	1.0	DRAW021W	None
1	2	ENG022	ENGLISH FOR ACADEMIC STUDIES 2	4.5	-	3.0	ENG021	None
1	2	HUM011	LOGIC REASONING WITH CRITICAL THINKING	4.5	-	3.0	None	None
1	2	MATH011-2	ADVANCED ALGEBRA	3.0	-	2.0	MATH011	None
1	2	MATH012	PLANE AND SPHERICAL TRIGONOMETRY	4.5	-	3.0	MATH011	None
1	2	NSTP011-1P	CIVIC WELFARE TRAINING SERVICE	4.0	3.0	(3.0)	NSTP010	None
1	2	PE012	PHYSICAL EDUCATION 2: DANCE, MARTIAL ARTS AND BOARD GAMES	-	3.0	(2.0)	PE011	None
1	2	VE012	VALUES EDUCATION 2	1.5	-	(1.0)	VE011	None
Total				25.0	12.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	3	CHM023	GENERAL CHEMISTRY 3	3.0	-	2.0	CHM022	None
1	3	CHM023L	GENERAL CHEMISTRY 3 (LAB)	-	3.0	1.0	CHM022, CHM022L	CHM023
1	3	DRAW023L	COMPUTER-AIDED DRAFTING & DESIGN (LAB)	-	3.0	1.0	DRAW022W	None
1	3	ENG023	ENGLISH FOR ACADEMIC STUDIES 3	4.5	-	3.0	ENG022	None
1	3	MATH013	ANALYTIC GEOMETRY	4.5	-	3.0	MATH012	None
1	3	MATH014	SOLID MENSURATION	3.0	-	2.0	MATH012	None
1	3	MATH021	CALCULUS 1	4.5	-	3.0	MATH012	MATH013
1	3	PE013	PHYSICAL EDUCATION 3: INDIVIDUAL / DUAL SPORTS AND GROUP GAMES	-	3.0	(2.0)	None	None
Total				19.5	9.0	15.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	1	CS001P	COMPUTER FUNDAMENTALS & PROGRAMMING 1 (PAIRED)	1.5	3.0	2.0	None	None
2	1	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	-	3.0	None	None
2	1	HUM016	ADVANCED LOGIC AND REASONING	4.5	-	3.0	HUM011	None
2	1	MATH022	CALCULUS 2	4.5	-	3.0	MATH013, MATH021	None
2	1	PE014	PHYSICAL EDUCATION 4: ADVANCED INDIVIDUAL/DUAL SPORTS	-	3.0	(2.0)	PE013	None
2	1	PHY021	PHYSICS 1	4.5	-	3.0	MATH021	None
2	1	PHY021L	PHYSICS 1 (LAB)	-	3.0	1.0	MATH021	PHY021
Total				19.5	9.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	2	CS002P	COMPUTER FUNDAMENTALS & PROGRAMMING 2 (PAIRED)	1.5	3.0	2.0	CS001P	None
2	2	FIL002	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	4.5	-	3.0	FIL001	None
2	2	MATH023	CALCULUS 3	4.5	-	3.0	MATH022	None
2	2	PHY022	PHYSICS 2	4.5	-	3.0	MATH022, PHY021	None
2	2	PHY022L	PHYSICS 2 (LAB)	-	3.0	1.0	MATH022, PHY021, PHY021L	None
2	2	SS013	ECONOMICS, TAXATION AND AGRARIAN REFORM	4.5	-	3.0	None	None
Total				19.5	6.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	3	ECE120L	INTRODUCTION TO MATLAB (LAB)	-	3.0	1.0	2nd Year Standing	None
2	3	HUM014	PHILIPPINE LITERATURE IN ENGLISH	4.5	-	3.0	None	None
2	3	MATH025	DIFFERENTIAL EQUATIONS	4.5	-	3.0	MATH023	None
2	3	PHY023	PHYSICS 3	4.5	-	3.0	PHY022	None
2	3	PHY023L	PHYSICS 3 (LAB)	-	3.0	1.0	PHY022, PHY022L	PHY023
2	3	SS017	SOCIETY, CULTURE AND FAMILY LIFE	4.5	-	3.0	None	None
Total				18.0	6.0	14.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	1	EE104	BASIC ELECTRICAL ENGINEERING	4.5	-	3.0	PHY023, PHY023L	None
3	1	MATH110	PROBABILITY AND STATISTICS	4.5	-	3.0	MATH011	None
3	1	MATH115	ADVANCED ENGINEERING MATHEMATICS	4.5	-	3.0	MATH025	None
3	1	ME123	BASIC MECHANICAL ENGINEERING	4.5	-	3.0	PHY023, PHY023L	None
3	1	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, PHY022	None
Total				22.5		15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	2	CE101	SURVEYING 1	4.5	-	3.0	MATH 011-2, MATH 012	None
3	2	CE101F	SURVEYING 1 (FIELD)	-	4.5	1.0	MATH 011-2, MATH 012	CE101
3	2	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH 011	None
3	2	MEC102	DYNAMICS OF RIGID BODIES	3.0	-	2.0	MEC101	None
3	2	RES101P	METHODS OF RESEARCH (PAIRED)	1.5	3.0	2.0	MATH110	None
3	2	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0	None	None
Total				18.0	7.5	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	BEC198	BASIC ENGINEERING CORRELATION	-	3.0	(1.0)	CHM023, MATH115, PHY023	None
3	3	CE102	SURVEYING 2	4.5	-	3.0	CE101	None
3	3	CE102F	SURVEYING 2 (FIELD)	-	4.5	1.0	CE101, CE101F	CE102
3	3	CE121	MECHANICS OF FLUID	3.0	-	2.0	MEC102	None
3	3	CE121L	MECHANICS OF FLUID (LAB)	-	4.5	1.0	MEC102	CE121
3	3	CE131P	STRUCTURAL THEORY 1 (PAIRED)	4.5	4.5	4.0	MEC101	MEC103
3	3	MEC103	MECHANICS OF DEFORMABLE BODIES	4.5	-	3.0	MEC101	None
3	3	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE 011	None
Total				18.0	16.5	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	4	SS 015	POLITICS, GOVERNANCE & THE 1987 PHILIPPINE CONSTITUTION	4.5	-	3.0	None	None
Total				4.5	0.0	3.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	CE101P	BUILDING DESIGN 1 (PAIRED)	1.5	4.5	2.0	DRAW022W	None
4	1	CE122	HYDROLOGY	4.5	-	3.0	CE121, CE121L	None
4	1	CE123	HYDRAULICS	3.0	-	2.0	CE121	None
4	1	CE123L	HYDRAULICS (LAB)	-	4.5	1.0	CE121, CE121L	CE123
4	1	CE132P	STRUCTURAL THEORY 2 (PAIRED)	4.5	3.0	4.0	CE131P, MATH115	None
4	1	ENG041L	ENGLISH FOR THE WORKPLACE 1	-	3.0	1.0	ENG023	None
4	1	SAF101	SAFETY MANAGEMENT	1.5	-	1.0	4th Year Standing	None
Total				15.0	15.0	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	CE101P - 1	BUILDING DESIGN 2 (PAIRED)	1.5	4.5	2.0	CE101P	None
4	2	CE103	HIGHWAY ENGINEERING	4.5	-	3.0	CE102, CE102F	None
4	2	CE133	STRUCTURAL DESIGN 1 : RCD	4.5	-	3.0	CE132P	None
4	2	CE133L	STRUCTURAL DESIGN 1 : RCD (LAB)	-	4.5	1.0	CE132P	CE133
4	2	CE151	GEOTECHNICAL ENGINEERING 1	4.5	-	3.0	CE123	None
4	2	CE151L	GEOTECHNICAL ENGINEERING 1 (LAB)	-	4.5	1.0	CE123	CE151
4	2	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L	None
Total				15.0	16.5	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	CE134	STRUCTURAL DESIGN 2 : STEEL & TIMBER	4.5	-	3.0	CE133	None
4	3	CE134L	STRUCTURAL DESIGN 2 : STEEL & TIMBER (LAB)	-	4.5	1.0	CE133, CE133L	CE 134
4	3	CE152	GEOTECHNICAL ENGINEERING 2 (FOUNDATION)	4.5	-	3.0	CE151	None
4	3	CE152L	GEOTECHNICAL ENGINEERING 2 (LAB)	-	4.5	1.0	CE151, CE133	CE152
4	3	CE198	CE CORRELATION 1	-	3.0	(1.0)	CE101, CE102, CE101P, CE151,	
4	3	EECO101	ENGINEERING ECONOMY	4.5	-	3.0	CE133, CE103	EECO101
4	3	ENG043L	ENGLISH FOR THE WORKPLACE 3	-	3.0	1.0	None	None
4	3	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	ENG042L	None
4	3		CE ELECTIVE 1	*	*	3.0	VE011	None
Total				15+	15+	15.0	*	*

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	1	CE105	TRANSPORTATION ENGINEERING	4.5	-	3.0	CE103	None
5	1	CE141	CONSTRUCTION MATERIALS & TESTING	3.0	0.0	2.0	MEC103	None
5	1	CE141L	CONSTRUCTION MATERIALS & TESTING (LAB)	-	4.5	1.0	MEC103	CE141
5	1	CE200D-3	CE CAPSTONE PROJECT 1	-	3.0	1.0	RES101P	None
5	1	MATH160	NUMERICAL METHODS	4.5	-	3.0	MATH025	None
5	1		CE ELECTIVE 2	*	*	3.0	*	*
Total				12.0+	7.5+	13.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	2	CE124	WATER RESOURCES ENGINEERING	4.5	-	3.0	CE123	None
5	2	CE142	CONST. METHODS & PROJ. MANAGEMENT	4.5	-	3.0	CE101P-1, CE134	None
5	2	CE142L	CONST. METHODS & PROJ. MANAGEMENT(LAB)	-	4.5	1.0	CE101P-1, CE134	CE142
5	2	CE200D-4	CE CAPSTONE PROJECT 2	-	3.0	1.0	CE200D-3	None
5	2	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0	CHM023, CHM023L	None
5	2		CE ELECTIVE 3	*	*	3.0	*	*
Total				12.0+	7.5+	13.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	3	CE200D-5	CE CAPSTONE PROJECT 3	-	3.0	1.0	CE200D-4	None
5	3	CE181	CE LAWS, CONTRACTS, SPECS.& ETHICS	4.5	-	3.0	CE142	None
5	3	CE198-1	CE CORRELATION 2	-	3.0	(1.0)	CE198, CE151, CE152, CE134, CE105, CE101P-1, CE141, CE142, CE124	None
5	3	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0	5TH YR STANDING	None
5	3	MSE101	FUNDAMENTALS OF MATERIAL SCIENCE & ENG'G	4.5	-	3.0	5TH YR STANDING	None
5	3		CE ELECTIVE 4	*	*	3.0	*	
Total				13.5+	6.0+	13.0		

Total Academic Units: 215

Total Non-academic Units: 22

* See table of specifications for Electives

+ Add Lecture and Laboratory Hours of chosen Elective courses as reflected in the table of specifications



Malayan Colleges Laguna



Mapúa Institute
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CE PROFESSIONAL ELECTIVE COURSES

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
		CE133-1	EARTHQUAKE ENGINEERING	*	*	3.0	None	None
		CE133-2	PRESTRESSED CONCRETE DESIGN	*	*	3.0	CE133-1	None
		CE133-3	BRIDGE ENGINEERING	*	*	3.0	None	None
		CE133-4	SPECIAL TOPICS IN STRUCTURAL ENGINEERING	*	*	3.0	CE133-3	None