

BACHELOR OF SCIENCE IN MARINE ENGINEERING (B.S. MarE)

(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	ENG021	ENGLISH FOR ACADEMIC STUDIES 1	4.5	0	3.0		
1	1	MATH005	FUNDAMENTALS OF ALGEBRA	4.5	0	3.0		
1	1	CHM015	GENERAL CHEMISTRY	4.5	0	3.0		
1	1	CHM015L	GENERAL CHEMISTRY (LAB)	0	3.0	1.0		CHM015
1	1	NSTP010	OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM	3.0	0	(3.0)		
1	1	DRAW015W-1	MARITIME DRAWING AND DIAGRAMS	0	4.5	1.0		
1	1	MT101P	SHIPS, SHIP ROUTINES AND CONSTRUCTION (PAIRED)	3	4.5	3.0		
1	1	MT170F-1	LEADERSHIP AND DISCIPLINE 1	0	4.5	(1.0)		
1	1	PE001	BASIC SWIMMING	0	3.0	(2.0)		
1	1	VE011	VALUES EDUCATION 1	1.5	0	(1.0)		
Total				21	19.5	14		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	2	ENG022-2	WRITING IN THE DISCIPLINE	4.5	0	3.0	ENG021	
1	2	MATH006-1	PLANE TRIGONOMETRY AND SOLID MENSURATION	4.5	0	3.0	MATH005	
1	2	ME101-1	ENGINEERING MATERIALS	6	0	4.0	CHM015	
1	2	IT010	I.T. FUNDAMENTALS	3.0	0	2.0		
1	2	IT010L	I.T. FUNDAMENTALS (LAB)	0	3.0	1.0		IT010
1	2	DRAW016L	COMPUTER-AUDED DRAFTING & DESIGN FUNDAMENTALS (LAB)	0	3.0	1.0	DRAW015W-1	
1	2	MT170F-2	LEADERSHIP AND DISCIPLINE 2	0	4.5	(1.0)	MT170F-1	
1	2	PE002	ADVANCED SWIMMING	0	3.0	(2.0)	PE001	
1	2	VE012	VALUES EDUCATION 2	1.5	0	(1.0)	VE011	
Total				19.5	13.5	14		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	3	NSTP011-2P	LITERACY TRAINING SERVICE	4	3.0	(3.0)	NSTP010	
1	3	ENG028	SPEECH COMMUNICATION W/ IMO STANDARD MARINE COMMUNICATION PHRASES	4.5	0	3.0	ENG022	
1	3	MARE104-1P	MACHINE SHOP 1 – HAND AND MEASURING TOOLS (PAIRED)	1.5	6	2.0	DRAW015W-1	
1	3	IT101	COMPUTER APPLICATIONS AND NETWORKING FOR MARITIME	4.5	0	3.0	IT010	
1	3	PHY016	GENERAL PHYSICS	4.5	0	3.0	MATH006-1	
1	3	PHY016L	GENERAL PHYSICS (LAB)	0	3.0	1.0	MATH006-1	PHY016
1	3	MT170F-3	LEADERSHIP AND DISCIPLINE 3	0	4.5	(1.0)	MT170F-2	
1	3	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	0	3.0		
1	3	VE013	VALUES EDUCATION 3	1.5	0	(1.0)	VE011	
Total				25	16.5	15		

BACHELOR OF SCIENCE IN MARINE ENGINEERING (B.S. MarE)

(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	4	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	0	3.0		
1	4	SS022	GENERAL PSYCHOLOGY w/ ALCOHOL AND DRUG PREVENTION	4.5	0	3.0		
1	4	HUM018	CONTEMPORARY WORLD GEOGRAPHY & CULTURE	4.5	0	3.0		
Total				13.5	0	9		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	1	MARE104-2P	MACHINE SHOP 2 – MACHINING TOOLS (PAIRED)	1.5	6	2.0	MARE104-1P	
2	1	MATH019	CALCULUS WITH ANALYTIC GEOMETRY	4.5	0	3.0	MATH006-1	
2	1	MATH109	ELEMENTARY STATISTICS	4.5	0	3.0	MATH005	
2	1	MARE101-1P	NAVAL ARCHITECTURE	6	1.5	4.0	DRAW015W-1, MT101P	
2	1	FIL002	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	4.5	0	3.0	FIL001	
2	1	MT170F-4	LEADERSHIP AND DISCIPLINE 4	0	4.5	(1.0)	MT170F-3	
Total				21	12	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	2	MARE151	BASIC ELECTRICITY	4.5	0	3.0		MARE151L
2	2	MARE151L	BASIC ELECTRICITY (LAB)	0	4.5	1.0		MARE151
2	2	MARE104-3P	MACHINE SHOP 3 – GAS AND ELECTRIC (PAIRED)	1.5	6	2.0	MARE104-2P, ME101-1	
2	2	ME113-1	THERMODYNAMICS FOR MARITIME	4.5	0	3.0	MATH019	ME113-1
2	2	ME113-1L	THERMODYNAMICS FOR MARITIME(LAB)	0	4.5	1.0	MATH019	ME113-1L
2	2	MEC106	MECHANICS AND HYDROMECHANICS	4.5	0	3.0	MATH019, PHY016, ENG018	
2	2	MARE198-1	MARE CORRELATION 1	0	4.5	(1.0)	MATH006-1, MARE104-2P	MARE151, MARE151L
2	2	MT170F-5	LEADERSHIP AND DISCIPLINE 5	0	4.5	(1.0)	MT170F-4	
2	2	HUM020	ETHICS	4.5	0	3.0		
Total				19.5	24	16		

BACHELOR OF SCIENCE IN MARINE ENGINEERING (B.S. MarE)

(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
2	3	MARE152	MARINE ELECTRONICS AND ELECTRICAL MAINTENANCE	6	0	4.0	MARE151, MARE151L	MARE152L
2	3	MARE152L	MARINE ELECTRONICS AND ELECTRICAL MAINTENANCE (LAB)	0	4.5	1.0	MARE151, MARE151L	MARE152
2	3	MARE165P	MARINE POWER PLANT – PROPULSION ANCILLARY SYSTEM AND GAS TURBINE (PAIRED)	3.0	4.5	3.0	ME113-1, ME113L-1	
2	3	CHM017-1	INDUSTRIAL CHEMISTRY AND TRIBOLOGY	3	0	2.0	CHM015	
2	3	CHM017L-1	INDUSTRIAL CHEMISTRY AND TRIBOLOGY (LAB)	0	4.5	1.0	CHM015, CHM015L	CHM017-1
2	3	MT166	PROTECTION OF THE MARINE ENVIRONMENT	4.5	0	3.0		
2	3	ENG120	RESEARCH AND REPORT WRITING	4.5	0	3.0	ENG028	
2	3	VE014	VALUES EDUCATION 4	1.5	0	1.0	VE013	
2	3	MT170F-6	LEADERSHIP AND DISCIPLINE 6	0	4.5	(1.0)	MT170F-5	
Total				22.5	18	17		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	4	MT130P	BASIC TRAINING	1.5	4.5	2.0		
2	4	SS013	ECONOMICS, TAXATION AND AGRARIAN REFORM	4.5	0	3.0		
2	4	SS015	POLITICS AND GOVERNANCE WITH PHILIPPINE CONSTITUTION	4.5	0	3.0		
2	4	SS021	SOCIETY & CULTURE w/ FAMILY PLANNING, STD, HIV & AIDS PREVENTION	4.5	0	3.0		
Total				15.5	4.5	11		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	1	MARE153	MARINE ELECTRICITY	6	0	4.0	MARE152, MARE152L	MARE153L
3	1	MARE153L	MARINE ELECTRICITY (LAB)	0	4.5	1.0	MARE152, MARE152L	MARE153
3	1	MARE106	AUXILIARY MACHINE 1	7.5	0	5	MARE104-2P	MARE106L
3	1	MARE106L	AUXILIARY MACHINE 1 (LAB)	0	4.5	1.0	MARE104-2P	MARE106
3	1	MT167	MARITIME LAW	6	0	4.0		
3	1	PE013	INDIVIDUAL DUAL SPORT	0	3	(2.0)		
Total				19.5	12	15		

BACHELOR OF SCIENCE IN MARINE ENGINEERING (B.S. MarE)

(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
3	2	ECE130	BASIC CONTROL ENGINEERING	4.5	0	3.0	MARE153, MARE153L	ECE130L
3	2	ECE130L	BASIC CONTROL ENGINEERING (LAB)	0	4.5	1.0	MARE153, MARE153L	ECE130
3	2	MARE107	AUXILIARY MACHINE 2	6	0	4.0	MARE106, MARE106L	MARE107L
3	2	MARE107L	AUXILIARY MACHINE 2 (LAB.)	0	4.5	1.0	MARE106, MARE106L	MARE107
3	2	MARE109P	MAINTENANCE AND REPAIR (PAIRED)	3.0	4.5	3.0	ME101-1	
3	2	MARE164	MARINE POWER PLANT – DIESEL	6	0	4.0	ME113-1	MARE164L, ECE130, ECE130L
3	2	MARE164L	MARINE POWER PLANT – DIESEL (LAB)	0	4.5	1.0	ME113-1	MARE164, ECE130, ECE130L
3	2	PE014	TEAM SPORTS	0	3.0	(2.0)	PE013	
Total				19.5	21	17		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	ECE132-1	MARINE AUTOMATION	4.5	0	3.0	ECE130, ECE130L	ECE132-1L
3	3	ECE132L-1	MARINE AUTOMATION (LAB)	0	4.5	1.0	ECE130, ECE130L	ECE132-1
3	3	MT162-2	LEADERSHIP AND TEAMWORK	4.5	0	3.0		
3	3	MARE166	MARINE POWER PLANT – STEAM	7.5	0	5	MARE165P	MARE166L
3	3	MARE166L	MARINE POWER PLANT – STEAM (LAB)	0	4.5	1.0		MARE166
3	3	MARE110P	WATCHKEEPING FOR ENGINE OFFICERS WITH RESOURCE MANAGEMENT (PAIRED)	4.5	1.5	3.0	MARE107, MARE164	
3	3	MARE198-2	MARE CORRELATION 2	0	4.5	(1.0)	ECE130, MARE153, MARE107	
Total				21	15	16		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	4	MT132P	ADVANCED TRAINING	1.5	4.5	2.0		
3	4	MT133P	SECURITY AWARENESS TRAINING (SAT)	1.5	4.5	2.0		
3	4	MT134P	SEAFARERS WITH DESIGNATED SECURITY DUTIES (SDSD)	1.5	4.5	2.0		
Total				4.5	13.5	6		



Malayan Colleges Laguna



Mapúa-PTC College of
Maritime Education and Training
Malayan Colleges Laguna

BACHELOR OF SCIENCE IN MARINE ENGINEERING (B.S. MarE)

(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
4	1	MARE199R	MARE SHIPBOARD TRAINING	-	99.9	40	MT130P, MT132P, MT133P, MT134P	
Total					99.9	40		

Total Academic Units: 205