

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (B.S. ME)

(Curriculum applicable to students who entered as freshmen beginning school year 2014-2015)

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	1	CHM021	GENERAL CHEMISTRY 1	3.0	-	2.0		
1	1	CHM021L	GENERAL CHEMISTRY 1 LABORATORY	-	3.0	1.0		CHM021
1	1	DRAW021W	ENGINEERING DRAWING 1 (DRAW)	-	3.0	1.0		
1	1	ENG021	ENGLISH FOR ACADEMIC STUDIES 1	4.5	-	3.0		
1	1	MATH011	ALGEBRA	4.5	-	3.0		
1	1	NSTP010	OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM	3.0	-	(3.0)		
1	1	PE011	PHYSICAL EDUCATION 1: PHYSICAL FITNESS AND GYMNASICS	-	3.0	(2.0)		
1	1	SS016	PHILIPPINE HISTORY	4.5	-	3.0		
1	1	VE011	VALUES EDUCATION 1	1.5	-	(1.0)		
			Total	21	9	13		
1	2	CHM022	GENERAL CHEMISTRY 2	3.0	-	2.0	CHM021	
1	2	CHM022L	GENERAL CHEMISTRY 2 LABORATORY	-	3.0	1.0	CHM021, CHM021L	CHM022
1	2	DRAW022W	ENGINEERING DRAWING 2 (DRAW)	-	3.0	1.0	DRAW021W	
1	2	ENG022	ENGLISH FOR ACADEMIC STUDIES 2	4.5	-	3.0	ENG021	
1	2	HUM011	LOGIC REASONING WITH CRITICAL THINKING	4.5	-	3.0	None	
1	2	MATH011-2	ADVANCED ALGEBRA	3	-	2.0	MATH011	
1	2	MATH012	PLANE AND SPHERICAL TRIGONOMETRY	4.5	-	3.0	MATH011	
1	2	NSTP011-1P	CIVIC WELFARE TRAINING SERVICE	4	3.0	(3.0)	NSTP010	
1	2	PE012	PHYSICAL EDUCATION 2: DANCE, MARTIAL ARTS AND BOARD GAMES	-	3.0	(2.0)	PE011	
1	2	VE012	VALUES EDUCATION 2	1.5	-	(1.0)	VE011	
			Total	25	12	15		
1	3	CHM023	GENERAL CHEMISTRY 3	3.0	-	2.0	CHM022	
1	3	CHM023L	GENERAL CHEMISTRY 3 LABORATORY	-	3.0	1.0	CHM022, CHM022L	CHM023
1	3	DRAW023L	COMPUTER-AIDED DRAFTING AND DESIGN (LAB)	-	3.0	1.0	DRAW022W	
1	3	ENG023	ENGLISH FOR ACADEMIC STUDIES 3	4.5	-	3.0	ENG022	
1	3	MATH013	ANALYTIC GEOMETRY	4.5	-	3.0	MATH012	
1	3	MATH014	SOLID MENSURATION	3.0	-	2.0	MATH012	
1	3	MATH021	CALCULUS 1	4.5	-	3.0	MATH012	MATH013
1	3	PE013	PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS	-	3.0	(2.0)	None	
			Total	19.5	9	15		

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2	1	CS001P	COMPUTER FUNDAMENTALS AND PROGRAMMING 1 (PAIRED)	1.5	3.0	2.0	None	
2	1	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	-	3.0	None	
2	1	HUM016	ADVANCED LOGIC AND REASONING	4.5	-	3.0	HUM011	
2	1	MATH022	CALCULUS 2	4.5	-	3.0	MATH013, MATH021	
2	1	PE014	PHYSICAL EDUCATION 4: ADVANCED INDIVIDUAL/DUAL SPORTS	-	3.0	(2.0)	PE013	
2	1	PHY021	PHYSICS 1	4.5	-	3.0	MATH021	
2	1	PHY021L	PHYSICS 1 (LAB)	-	3.0	1.0	MATH021	PHY021
Total				19.5	9	15		
Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	2	CS002P	COMPUTER FUNDAMENTALS AND PROGRAMMING 2 (PAIRED)	1.5	3.0	2.0	CS001P	
2	2	FIL002	PAGBASA AT PAGSULAT TUNGO SA PANALIKSIK	4.5	-	3.0	FIL001	
2	2	MATH023	CALCULUS 3	4.5	-	3.0	MATH022	
2	2	PHY022	PHYSICS 2	4.5	-	3.0	PHY021, MATH022	
2	2	PHY022L	PHYSICS 2 (LAB)	-	3.0	1.0	PHY021, PHY021L, MATH022	PHY022
2	2	SS013	ECONOMICS, TAXATION & AGRARIAN REFORM	4.5	-	3.0		
Total				19.5	6	15		
Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	3	ECE120L	INTRODUCTION TO MATLAB (LAB)	-	3.0	1.0	None	
2	3	HUM014	PHILIPPINE LITERATURE IN ENGLISH	4.5	-	3.0		
2	3	MATH025	DIFFERENTIAL EQUATIONS	4.5	-	3.0	MATH023	
2	3	PHY023	PHYSICS 3	4.5	-	3.0	PHY022	
2	3	PHY023L	PHYSICS 3 (LAB)	-	3.0	1.0	PHY022, PHY022L	PHY023
2	3	SS017	SOCIETY, CULTURE & FAMILY LIFE	4.5	-	3.0		
Total				18	6	14		
Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	1	MATH110	PROBABILITY AND STATISTICS	4.5	-	3.0	MATH011	
3	1	MATH115	ADVANCED ENGINEERING MATHEMATICS	4.5	-	3.0	MATH025	
3	1	ME100	ORIENTATION TO MECHANICAL ENGINEERING	1.5		1.0	None	
3	1	ME101P	ENGINEERING MATERIALS, PROCESSES AND TESTING (PAIRED)	4.5	4.5	4	CHM023, CHM023L	
3	1	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, PHY022	
3	1	SAF101	SAFETY MANAGEMENT	1.5	-	1.0		
Total				21	4.5	15		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	2	BEC198-1	BASIC ENGINEERING CORRELATION 1	-	3.0	(1.0)	CHM023, PHY023	
3	2	EE104	BASIC ELECTRICAL ENGINEERING	4.5	-	3.0	PHY023, PHY023L	
3	2	EE104L	BASIC ELECTRICAL ENGINEERING (LAB)	-	4.5	1.0	PHY023, PHY023L	EE104
3	2	ME102L	MECHANICAL PROCESSES 1-1 - WORKSHOP THEORY & PRACTICE (LAB)	-	4.5	1.0	ME101P, DRAW022W	
3	2	ME104	SAFETY ENGINEERING FOR ME	3.0	-	2.0	SAF101	
3	2	ME111	THERMODYNAMICS 1	4.5	-	3.0	MATH023, PHY023	
3	2	MEC102	DYNAMICS OF RIGID BODIES	3	-	2.0	MEC101	
3	2	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0		
Total				19.5	12	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	BEC198-2	BASIC ENGINEERING CORRELATION 2	-	3.0	(1.0)	MATH115	
3	3	ECE104	BASIC ELECTRONICS	4.5	-	3.0	EE104	
3	3	ECE104L	BASIC ELECTRONICS (LAB)	-	4.5	1.0	EE104, EE104L	ECE104
3	3	EE108	DC/AC MACHINERY	4.5	-	3.0	EE104	
3	3	EE108L	DC/AC MACHINERY (LAB)	-	4.5	1.0	EE104, EE104L	EE108
3	3	ME102-1L	MECHANICAL PROCESSES 1-2 - WORKSHOP THEORY & PRACTICE (LAB)	-	4.5	1.0	ME102L	
3	3	ME112	THERMODYNAMICS 2	4.5	-	3.0	ME111	
3	3	MEC103	MECHANICS OF DEFORMABLE BODIES	4.5	-	3.0	MEC101	
3	3	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011	
Total				19.5	16.5	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	4	EECO101	ENGINEERING ECONOMY	4.5	-	3.0		
3	4	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0		
3	4	SS015	POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION	4.5	-	3.0		
Total				13.5	0	9		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	ENG041L	ENGLISH AT THE WORKPLACE 1	-	3.0	1.0	ENG023	
4	1	ME103L	MECHANICAL PROCESSES 2-1 - MACHINE SHOP THEORY & PRACTICE (LAB)	-	4.5	1.0	ME102-1L	
4	1	ME105	FLUID MECHANICS	4.5	-	3.0	MEC102, ME111	
4	1	ME113	FUELS AND COMBUSTION ENGINEERING	4.5	-	3.0	ME112	
4	1	ME114	HEAT TRANSFER	4.5	-	3.0	ME112, MATH025	
4	1	ME122P	MACHINE ELEMENTS 1 (PAIRED)	3.0	4.5	3.0	MEC102	
Total				16.5	12	14		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	ENG042L	ENGLISH AT THE WORKPLACE 2	-	3.0	1.0	ENG041L	
4	2	MATH160	NUMERICAL METHODS	4.5		3.0	MATH025	
4	2	ME103-1L	MECHANICAL PROCESSES 2-2 - MACHINE SHOP THEORY & PRACTICE (LAB)	-	4.5	1.0	ME103L	
4	2	ME115	REFRIGERATION ENGINEERING	4.5	-	3.0	ME114	
4	2	ME171	VIBRATION ENGINEERING	3	-	2.0	MEC102	
4	2	ME122-1P	MACHINE ELEMENTS 2 (PAIRED)	3	4.5	3.0	ME122P	
4	2	RES101P	METHODS OF RESEARCH (PAIRED)	1.5	3.0	2.0	MATH110	
Total				16.5	15	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0	CHM023, CHM023L	
4	3	ENG043L	ENGLISH AT THE WORKPLACE 3	-	3.0	1.0	ENG042L	
4	3	ME131	MACHINE DESIGN 1	4.5	-	3.0	ME101P, , ME122-1P	
4	3	ME131W	MACHINE DESIGN 1 (DRAFTING)	-	3.0	1.0	ME101P, ME122-1P	ME131
4	3	ME141L	MECHANICAL ENGINEERING 1 (LAB)	-	9	2.0	ME105	
4	3	ME151	FLUID MACHINERIES	4.5	-	3.0	ME105	
4	3	ME198	ME CORRELATION 1	-	3.0	(1.0)	MATH110, EECO101, MEC103, ME122-1P, ME113, ME114	
4	3		ME ELECTIVE 1	*	*	3.0		
4	3	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE013	
Total				13.5+	18.0+	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	4	ME144	INDUSTRIAL PROCESSES	3.0	-	2.0	ME104	
4	4	ME117F	PLANT VISIT AND SEMINARS	-	13.5	3.0	4 th Year Standing	ME144□
Total				3	13.5	5		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	1	ME115-1P	AIR-CONDITIONING AND VENTILATION SYSTEMS	3.0	4.5	3.0	ME115	
5	1	ME132	MACHINE DESIGN 2	4.5	-	3.0	ME131	
5	1	ME132W	MACHINE DESIGN 2 (DRAFTING)	-	3.0	1.0	ME131, ME131W	ME132
5	1	ME142L	MECHANICAL ENGINEERING 2 (LAB)	-	9	2.0	ME114, ME141L	
5	1		ME ELECTIVE 2	*	*□	3.0		
5	1	ME200D-1	ME CAPSTONE PROJECT 1	-	3.0	1.0	RES101P	
Total				7.5+	19.5+	13		

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5	2	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011	
5	2	ME143L	MECHANICAL ENGINEERING 3 (LAB)	-	9	2.0	ME142L	
5	2	ME161-1P	POWER PLANT ENGINEERING (PAIRED)	6	4.5	5	ME113, ME114, ME151	
5	2		ME ELECTIVE 3	*	*	3.0		
5	2	ME200D-2	ME CAPSTONE PROJECT 2	-	3.0	1	ME200D-1	
Total				10.5+	16.5+	14		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	3	ECE132	INSTRUMENTATION AND CONTROL	3.0	-	2.0	ECE104	
5	3	ECE132L	INSTRUMENTATION AND CONTROL (LAB)	-	4.5	1.0	ECE104, ECE104L	ECE132
5	3	ME116P	INDUSTRIAL PLANT ENGINEERING	4.5	4.5	4	ME144, ME117F	
5	3	ME181	ME LAWS, CONTRACTS & ETHICS	4.5	-	3.0	5 th Year Standing	
5	3	ME198-1	ME CORRELATION 2	-	3.0	(1.0)	ME132, ME143L, ME161-1P, ME115-1P, ME198	
5	3		ME ELECTIVE 4	*	*	3.0		
5	3	ME200D-3	ME CAPSTONE PROJECT 3	-	3.0	1.0	ME200D-2	
Total				12.0+	15.0+	14		

*PE, NSTP, VE and CORRELATION units are not considered in the computation of TWA and maximum load per term.

TOTAL NO. OF UNITS: 253.0

LESS NON-ACADEMIC UNITS: 231.0