

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

(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	MATH110	PROBABILITY AND STATISTICS	4.5	-	3.0	MATH011	None
3	1	MATH115	ADVANCED ENGINEERING MATHEMATICS	4.5	-	3.0	MATH025	None
3	1	ME100	ORIENTATION TO MECHANICAL ENGINEERING	1.5	-	1.0	None	None
3	1	ME101P	ENGINEERING MATERIALS, PROCESSES AND TESTING (PAIRED)	4.5	4.5	4.0	CHM023, CHM023L	None
3	1	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, PHY022	None
3	1	SAF101	SAFETY MANAGEMENT	1.5	-	1.0	3rd Year Standing	None
Total				21.0	4.5	15.0		

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	None
3	2	EE104	BASIC ELECTRICAL ENGINEERING	4.5	-	3.0	PHY023, PHY023L	None
3	2	EE104L	BASIC ELECTRICAL ENGINEERING (LAB)	-	4.5	1.0	PHY023, PHY023L	EE104
3	2	ME102L	MECHANICAL PROCESSES 1 -1 WORKSHOP THEORY & PRACTICE	-	4.5	1.0	DRAW022W, ME101P	None
3	2	ME104	SAFETY ENGINEERING FOR M.E.	3.0	-	2.0	SAF101	None
3	2	ME111	THERMODYNAMICS	4.5	-	3.0	MATH023, PHY023	None
3	2	MEC102	DYNAMICS OF RIGID BODIES	3.0	-	2.0	MEC101	None
3	2	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0	None	None
Total				19.5	12.0	15.0		

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	None
3	3	ECE104	BASIC ELECTRONICS	4.5	-	3.0	EE104	None
3	3	ECE104L	BASIC ELECTRONICS (LAB)	-	4.5	1.0	EE104, EE104L	ECE104
3	3	EE108	DC/AC MACHINERY	4.5	-	3.0	EE104	None
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	None
3	3	ME112	THERMODYNAMICS 2	4.5	-	3.0	ME111	None
3	3	MEC103	MECHANICS OF DEFORMABLE BODIES	4.5	-	3.0	MEC101	None
3	3	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011	None
Total				19.5	16.5	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	4	EECO101	ENGINEERING ECONOMY	4.5	-	3.0	None	None
3	4	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0	None	None
3	4	SS015	POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION	4.5	-	3.0	None	None
Total				13.5	0.0	9.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	ENG041L	ENGLISH FOR THE WORKPLACE 1	-	3.0	1.0	ENG023	None
4	1	ME103L	MECHANICAL PROCESSES 2 (MACHINE SHOP THEORY & PRACTICE)	-	4.5	1.0	ME102-1L	None
4	1	ME105	FLUID MECHANICS	4.5	-	3.0	ME111, MEC102	None
4	1	ME113	FUELS AND COMBUSTION ENGINEERING	4.5	-	3.0	ME112	None
4	1	ME114	HEAT TRANSFER	4.5	-	3.0	ME112, MATH025	None
4	1	ME122P	MACHINE ELEMENTS 1 (PAIRED)	3.0	4.5	3.0	MEC102	None
Total				16.5	12.0	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L	None
4	2	MATH160	NUMERICAL METHODS	4.5	-	3.0	MATH025	None
4	2	ME103-1L	MECHANICAL PROCESSES 2-2 (MACHINE SHOP THEORY & PRACTICE)	-	4.5	1.0	ME103L	None
4	2	ME115	REFRIGERATION ENGINEERING	4.5	-	3.0	ME114	None
4	2	ME171	VIBRATION ENGINEERING	3.0	0.0	2.0	MEC102	None
4	2	ME122-1P	MACHINE ELEMENTS 2 (PAIRED)	3.0	4.5	3.0	ME122P	None
4	2	RES101P	METHODS OF RESEARCH (PAIRED)	1.5	3.0	2.0	MATH110	None
Total				16.5	15.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0	CHM023, CHM023L	None
4	3	ENG043L	ENGLISH FOR THE WORKPLACE 3	-	3.0	1.0	ENG042L	None
4	3	ME131	MACHINE DESIGN 1	4.5	-	3.0	ME101P, ME122-1P	None
4	3	ME131W	MACHINE DESIGN 1 (DRAFTING)	-	3.0	1.0	ME101P, ME122-1P	ME131
4	3	ME141L	MECHANICAL ENGINEERING 1 (LAB)	-	9.0	2.0	ME105	None
4	3	ME151	FLUID MACHINERIES	4.5	-	3.0	ME105	None
4	3	ME198	ME CORRELATION 1	-	3.0	(1.0)	MATH110, EECO101, ME113, ME114, ME122-1P, ME171, MEC103	None
4	3		ME ELECTIVE 1	*	*	3.0	*	*
4	3	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE011	None
Total				13.5+	18.0+	15.0		

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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	None
5	1	ME132	MACHINE DESIGN 2	4.5	-	3.0	ME131	None
5	1	ME132W	MACHINE DESIGN 2 (DRAFTING)	-	3.0	1.0	ME131, ME131W	ME132
5	1	ME142L	MECHANICAL ENGINEERING 2 (LAB)	-	9.0	2.0	ME114, ME141L	None
5	1	ME200D-1	ME CAPSTONE PROJECT 1	-	3.0	1.0	RES101P	None
5	1		ME ELECTIVE 2	*	*	3.0	*	*
Total				7.5+	19.5+	13.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	2	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011	None
5	2	ME143L	MECHANICAL ENGINEERING 3 (LAB)	-	9.0	2.0	ME142L	None
5	2	ME161-1P	POWER PLANT ENGINEERING (PAIRED)	6.0	4.5	5.0	ME113, ME114, ME151	None
5	2	ME200D-2	ME CAPSTONE PROJECT 2	-	3.0	1.0	ME200D-1	None
5	2		ME ELECTIVE 3	*	*	3.0	*	*
Total				10.5+	16.5+	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	3	ECE132	INSTRUMENTATION AND CONTROL	3.0	-	2.0	ECE104	None
5	3	ECE132L	INSTRUMENTATION AND CONTROL (LAB)	-	4.5	1.0	ECE104, ECE104L	ECE132
5	3	ME116P	INDUSTRIAL PLANT ENGINEERING	4.5	4.5	4.0	ME144, ME117F	None
5	3	ME181	ME LAWS, CONTRACTS & ETHICS	4.5	-	3.0	5th Year Standing	None
5	3	ME198-1	ME CORRELATION 2	-	3.0	(1.0)	ME115-1P, ME132, ME143L, ME161- 1P, ME198	None
5	3	ME200D-3	ME CAPSTONE PROJECT 3	-	3.0	1.0	ME200D-2	None
5	3		ME ELECTIVE 4	*	*	3.0	*	*
Total				12.0+	15.0+	14.0		

Total Academic Units: 231

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

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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	None
5	1	ME132	MACHINE DESIGN 2	4.5	-	3.0	ME131	None
5	1	ME132W	MACHINE DESIGN 2 (DRAFTING)	-	3.0	1.0	ME131, ME131W	ME132
5	1	ME142L	MECHANICAL ENGINEERING 2 (LAB)	-	9.0	2.0	ME114, ME141L	None
5	1	ME200D-1	ME CAPSTONE PROJECT 1	-	3.0	1.0	RES101P	None
5	1		ME ELECTIVE 2	*	*	3.0	*	*
Total				7.5+	19.5+	13.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	2	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011	None
5	2	ME143L	MECHANICAL ENGINEERING 3 (LAB)	-	9.0	2.0	ME142L	None
5	2	ME161-1P	POWER PLANT ENGINEERING (PAIRED)	6.0	4.5	5.0	ME113, ME114, ME151	None
5	2	ME200D-2	ME CAPSTONE PROJECT 2	-	3.0	1.0	ME200D-1	None
5	2		ME ELECTIVE 3	*	*	3.0	*	*
Total				10.5+	16.5+	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	3	ECE132	INSTRUMENTATION AND CONTROL	3.0	-	2.0	ECE104	None
5	3	ECE132L	INSTRUMENTATION AND CONTROL (LAB)	-	4.5	1.0	ECE104, ECE104L	ECE132
5	3	ME116P	INDUSTRIAL PLANT ENGINEERING	4.5	4.5	4.0	ME144, ME117F	None
5	3	ME181	ME LAWS, CONTRACTS & ETHICS	4.5	-	3.0	5th Year Standing	None
5	3	ME198-1	ME CORRELATION 2	-	3.0	(1.0)	ME115-1P, ME132, ME143L, ME161- 1P, ME198	None
5	3	ME200D-3	ME CAPSTONE PROJECT 3	-	3.0	1.0	ME200D-2	None
5	3		ME ELECTIVE 4	*	*	3.0	*	*
Total				12.0+	15.0+	14.0		

Total Academic Units: 231

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

ME PROFESSIONAL ELECTIVE COURSES

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
		ME165-1	ALTERNATIVE ENERGY RESOURCES	4.5	-	3.0	ME113, ME114	None
		ME165-2	NUCLEAR & GEOTHERMAL ENERGY	4.5	-	3.0	ME151	None
		ME165-3	SOLAR AND WIND UTILIZATION	4.5	-	3.0	ME151	None
		ME165-4P	MICRO-HYDRO ELECTRIC PLANT DESIGN	3.0	3.0	3.0	None	None