

**HOLY ANGEL UNIVERSITY**  
**Angels City**  
**REGISTRAR'S OFFICE**  
**COLLEGE OF ENGINEERING AND ARCHITECTURE**  
**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING**  
**EFFECTIVE S.Y. 2003-2004**

**FIRST YEAR, FIRST SEMESTER**

<b>COURSE NO.</b>	<b>DESCRIPTION</b>	<b>LEC HRS</b>	<b>LAB HRS</b>	<b>CREDIT UNITS</b>	<b>PREREQUISITE</b>
GCHEM1	GENERAL CHEMISTRY 1 LECTURE	3	0	3	NONE
GCHEM1L	GENERAL CHEMISTRY 1 LABORATORY	0	3	1	NONE
1ENGLISH	READING & WRITING	3	0	3	NONE
ESDRAW	ENGINEERING DRAWING	0	3	1	NONE
MATHALG	COLLEGE ALGEBRA	5	0	5	NONE
TRIGO	PLANE & SPHERICAL TRIGONOMETRY	3	0	3	NONE
4PHILHIS	PHILIPPINE HISTORY	3	0	3	NONE
5GODCAL	RESPONDING TO GOD'S CALL IN FAITH	3	0	3	NONE
7SELECT	SELF-TESTING ACTIVITIES	2	0	2	NONE
NSTP1	NATIONAL SERVICE TRAINING PROGRAM 1	0	9	3	NONE
		22	6	24	

**FIRST YEAR, SECOND SEMESTER**

1SPEECH	SPEECH & ORAL COMMUNICATION	3	0	3	NONE
ENVIRON	ENVIRONMENTAL SCIENCE	3	0	3	GCHEM1
GEOSOL	ANALYTIC GEOMETRY & SOLID MENSURATION	4	0	4	MATHALG, TRIGO
GCHEM2	GENERAL CHEMISTRY 2 LECTURE	2	0	2	GCHEM1
GCHEM2L	GENERAL CHEMISTRY 2 LABORATORY	0	3	1	GCHEM1/GCHEM1L
FUNCOM	COMPUTER FUNDAMENTALS & PROGRAMMING LEC.	2	0	2	MATHALG
FUNCOML	COMPUTER FUNDAMENTALS & PROGRAMMING LAB.	0	3	1	MATHALG
5MORAL	MORAL LIFE	3	0	3	5GODCAL
4LOGIC	LOGIC	3	0	3	NONE
7RHYACT	FUNDAMENTALS OF RHYTHMIC ACTIVITIES	2	0	2	7SELECT
NSTP2	NATIONAL SERVICE TRAINING PROGRAM 2	0	9	3	NSTP1
		22	9	24	

**SECOND YEAR, FIRST SEMESTER**

DIFFCAL	DIFFERENTIAL CALCULUS	4	0	4	GEOSOL
PHYSICS1	PHYSICS 1 LECTURE	4	0	4	MATHALG, TRIGO
PHYSICS1L	PHYSICS 1 LABORATORY	0	3	1	MATHALG, TRIGO
4GENPSY	GENERAL PSYCHOLOGY	3	0	3	NONE
5ARTAPP	APPRECIATION OF VISUAL & PERFORMING ARTS	3	0	3	NONE
WORKSHOP	WORKSHOP THEORY & PRACTICE	0	6	2	NONE
5PRAYER	WORSHIP, PRAYER, & SACRAMENTS	3	0	3	5MORAL
BASCAD	BASIC COMPUTER-AIDED DRAFTING	0	3	1	ESDRAW
METECH1	ME TECHNOLOGY 1	0	3	1	2ND YR STANDING
7FUNGAM	FUNDAMENTALS OF GAMES AND SPORTS	2	0	2	7RHYACT
		19	15	24	

**SECOND YEAR, SECOND SEMESTER**

INTECAL	INTEGRAL CALCULUS	4	0	4	DIFFCAL
PHYSICS2	PHYSICS II LECTURE	4	0	4	PHYSICS1
PHYSICS2L	PHYSICS II LABORATORY	0	3	1	PHYSICS1L
MCSHOP	MACHINE SHOP THEORY AND PRACTICE	0	6	2	WORKSHOP
APCAD	ADVANCED COMPUTER-AIDED DRAFTING & APPLICATIONS	0	3	1	BASCAD
4PRINECO	PRINCIPLES OF ECONOMICS AND TLR	3	0	3	NONE
1BUSTECH	BUSINESS & TECHNICAL WRITING	3	0	3	1ENGLISH
4PHIGOV	POLITICS AND GOVERNANCE W/ PHILIPPINE CONSTITUTION	3	0	3	4PHILHIS
METECH2	ME TECHNOLOGY 2	0	3	1	METECH1
7REACT	RECREATIONAL ACTIVITIES	2	0	2	7FUNGAM
		22	6	24	

**THIRD YEAR, FIRST SEMESTER**

ESEMECH	ENGINEERING MECHANICS	5	0	5	INTECAL, PHYSICS1
DIFEQNS	DIFFERENTIAL EQUATIONS	3	0	3	INTECAL
THERM1	THERMODYNAMICS 1	4	0	4	PHYSICS2, INTECAL
MACHE1	MACHINE ELEMENTS 1	2	3	3	PHYSICS2, APCAD
ESELME	ELEM. ELECTRICAL ENGINEERING	2	0	2	PHYSICS2, INTECAL
ESELMEL	ELEM. ELECTRICAL ENGINEERING LAB.	0	3	1	PHYSICS2, INTECAL
1LIT1	INTRODUCTION TO LITERATURE	3	0	3	NONE
3FILSIN	SINING NG PAKIKIPAGTALASTASAN	3	0	3	NONE
		22	6	24	

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<b>THIRD YEAR, SECOND SEMESTER</b>		<b>LEC</b>	<b>LAB</b>	<b>CREDIT</b>	<b>PREREQUISITE</b>
<b>COURSE NO.</b>	<b>DESCRIPTION</b>	<b>HRS</b>	<b>HRS</b>	<b>UNITS</b>	
ADNUMET	ADVANCED ENGINEERING MATHEMATICS WITH NUMERICAL METHODS	3	0	3	DIFEQNS
MEMATLS	STRENGTH OF MATERIALS FOR M.E	5	0	5	ESEMECH
MACHE2	MACHINE ELEMENTS II	2	3	3	MACHE1
THERM2	THERMODYNAMICS II	4	0	4	THERM1
HTTRANS	HEAT TRANSFER	2	0	2	COREQ: THERM2
MATTEST	MATERIALS OF ENGINEERING & TESTING	3	0	3	ESEMECH
MATTESTL	MATERIALS OF ENGINEERING & TESTING LAB	0	3	1	ESEMECH
3FILBAS	PAGBASA AT PAGSULAT SA IBATIBANG DISIPLINA	3	0	3	3FILSIN
		<u>22</u>	<u>6</u>	<u>24</u>	
<b>FOURTH YEAR, FIRST SEMESTER</b>					
ESFLUID	FLUID MECHANICS LECTURE	3	0	3	ESEMECH
ESFLUIDL	FLUID MECHANICS LABORATORY	0	3	1	ESEMECH
MELAB1	ME LABORATORY 1	0	6	2	THERM2
MCDES1	MACHINE DESIGN 1	3	3	4	MACHEL2, MEMATLS
PROSTAT	PROBABILITY & STATISTICS	3	0	3	INTECAL
ICENGNS	INTERNAL COMBUSTION ENGINE	3	0	3	THERM1
REFENGG	REFRIGERATION ENGINEERING	3	0	3	HTTRANS
ESENMGT	ENGINEERING MANAGEMENT	3	0	3	4TH YEAR STANDING
		18	12	22	
<b>FOURTH YEAR, SECOND SEMESTER</b>					
ESELEC	BASIC ELECTRONICS	2	0	2	ESELME
ESELECL	BASIC ELECTRONICS LABORATORY	0	3	1	ESELMEL
MELAB2	ME LABORATORY II	0	6	2	MELAB1, ICENGNS
FLUMACH	FLUID MACHINERY	3	0	3	ESFLUID
MCDES2	MACHINE DESIGN II	3	3	4	MCDES1
DCACMC	DC & AC MACHINERY LECTURE	3	0	3	ESELMEE
DCACMCL	DC & AC MACHINERY LABORATORY	0	3	1	ESELMEE
4RIZAL	LIFE & WORKS OF RIZAL	3	0	3	
IMERES	INTRODUCTION TO METHODS OF RESEARCH	3	0	3	PROSTAT
		<u>17</u>	<u>15</u>	<u>22</u>	
<b>FIFTH YEAR, FIRST SEMESTER</b>					
VIBENGG	VIBRATION ENGINEERING	2	0	2	MACDESII
MELAB3	ME LABORATORY III	0	6	2	MELAB2, REFENGG, COREQ: AIRCOND
AIRCOND	AIR-CONDITIONING DESIGN	2	3	3	HITRANS, REFENGG, MELAB2
CONTROLS	INSTRUMENTATION & CONTROL ENGINEERING	2	3	3	5TH YEAR STANDING
PWRPLANT	Power Plant Design	4	6	6	FLUMACH, COREQ: MELAB3
MEELECT1	ELECTIVE 1	3	0	3	5TH YEAR STANDING
MEECO	ENGINEERING ECONOMY FOR ME	3	0	3	5TH YEAR STANDING
		<u>16</u>	<u>18</u>	<u>22</u>	
<b>FIFTH YEAR, SECOND SEMESTER</b>					
MECHTRON	MECHATRONICS	2	0	2	CONTROLS
MECHTROL	MECHATRONICS LABORATORY	0	3	1	CONTROLS
INDUSPL	INDUSTRIAL PLANT DESIGN	3	6	5	MELAB3, AIRCON, & FLUMACH
INSPECT	PLANT INSPECTION & SEMINARS	0	6	2	COREQ: INPROCS
INPROCS	INDUSTRIAL PROCESSES	2	0	2	MELAB2 & CONTROLS
MELAWS	ME LAWS, CONTRACTS & ETHICS	3	0	3	5TH YEAR STANDING
MEELECT2	ME ELECTIVE 2	3	0	3	5TH YEAR STANDING
MESAFETY	SAFETY IN MECHANICAL ENGINEERING	2	0	2	5TH YEAR STANDING
		<u>15</u>	<u>15</u>	<u>20</u>	
<b>ELECTIVES</b>					
INLUBRIC	INDUSTRIAL LUBRICATION & TRIBOLY	3	0	3	5TH YEAR STANDING
ENERUSE	ENERGY RESOURCES & USES	3	0	3	5TH YEAR STANDING
PWRPOPM	POWER PLANT OPERATIONS & MAINTENANCE	2	3	3	MELAB3, STEAM
MEPROJECT	ME PROJECT STUDY	3	0	3	IMERES

Name: \_\_\_\_\_

Student No.: \_\_\_\_\_