

**CURRICULUM REVISION FORM 2 (Semestral Offering)**

**Program Bachelor of Science in Agricultural Engineering**  
**Department Engineering Sciences**  
**College College of Engineering and Information Technology**  
**Date of Last Revision: 08/22/2008**

**FIRST YEAR**

<b>FIRST SEMESTER</b>									
COURSE	NO.	DESCRIPTION	UNITS	Units		Contact Hrs per week		PREREQ	
				LEC	LAB	LEC	LAB		
MATH	1.7	College Algebra	3	3	0	3	0		
MATH	2.1	Plane and Spherical Trigonometry	3	3	0	3	0		
IT	1	Computer Concepts & Fundamentals	3	2	1	2	3		
CHEM	1	Intro to Inorganic Chemistry (lec)	3	3	0	3	0	Passing NSAE	
CHEM	1.1	Intro to Inorganic Chemistry (lab)	2	0	2	0	6	Passing NSAE	
FIL	1	Komunikasyon sa Akademikong Filipino	3	3	0	3	0		
ES	1	Engineering Drawing	2	1	1	1	3		
ENG	1	Study & Thinking Skills	3	3	0	3	0		
PE	1	Physical Fitness	2						
NSTP	1	CMT/LTS	3						
<b>Total</b>			<b>27</b>	<b>18</b>	<b>4</b>	<b>18</b>	<b>12</b>		

<b>SECOND SEMESTER</b>									
COURSE	NO.	DESCRIPTION	UNITS	Units		Contact Hrs per week		PREREQ	
				LEC	LAB	LEC	LAB		
MATH	6.4	Analytic Geometry	3	3	0	3	0	Math 1.7 & Math 2.1	
MATH	4	Advanced Algebra	3	3	0	3	0	Math 1.7	
ENGL	2	Writing in the Discipline	3	3	0	3	0	ENGL 1	
FIL	2	Pagbasa at Pagsulat tungo sa Pananaliksik	3	3	0	3	0	FIL 1	
CHEM	2	Intro to Organic Chemistry II (lec)	3	3	0	3	0	Chem 1	
CHEM	2.1	Intro to Organic Chemistry II (lab)	2	0	2	0	6	Chem 1.1	
Phys	10	Physics I (Mechanics-lec)	3	3	0	3	0	Math 1.7 & Math 2.1	
Phys	10.1	Physics I (lab)	1	0	1	0	3	Math 1.7 & Math 2.1	
ES	2	CAD (Computer - Aided Drafting)	1	0	1	0	3	ES 1 & IT 1	
PE	2	Rhythmic Activities	2	2	0			PE 1	
NSTP	2	CMT/LTS	3	3	0				
<b>Total</b>			<b>27</b>	<b>23</b>	<b>4</b>	<b>18</b>	<b>12</b>		

**SECOND YEAR**

<b>FIRST SEMESTER</b>									
COURSE	NO.	DESCRIPTION	UNITS	Units		Contact Hrs per week		PREREQ	
				LEC	LAB	LEC	LAB		
MATH	9.1	Differential Calculus	4	4	0	4	0	Math 6.4 & Math 4	
HUM	1	Introduction To Humanities	3	3	0	3	0		
SocSci	5	Gen. Econ. w/ Taxation & Agrarian Reform	3	3	0	3	0		
Phys	12	Physics II (Electricity and Magnetism)	3	3	0	3	0	Phys 10	
Phys	12.1	Physics II (lab)	1	0	1	0	3	Phys 10.1	
SocSci	10	General Sociology with Pop. Ed.	3	3	0	3	0		
Math	6.5	Solid Mensuration	2	2	0	2	0	Math 6.4	
Bio	1	General Biology	3	2	1	2	3		
ENG	4	Technical Writing	3	3	0	3	0	ENG 2	
PE	3	Individual and Dual Sports	2	2	0			PE 1	
<b>Total</b>			<b>27</b>	<b>25</b>	<b>2</b>	<b>23</b>	<b>6</b>		

<b>SECOND SEMESTER</b>									
COURSE	NO.	DESCRIPTION	UNITS	Units		Contact Hrs per week		PREREQ	
				LEC	LAB	LEC	LAB		
MATH	9.2	Integral Calculus	4	4	0	4	0	Math 9.1	
Eng	3	Speech and Oral Communication	3	3	0	3	0	Engl 2	
EE	11	Principles of Electricity and Electronics	3	3	0	3	0	Phys 12, Phys 12.1	
Philo	1	Intro. To Philosophy	3	3	0	3	0	HUM 1	
CP		Principles of Crop Science	3	2	1	2	3	Bio 1	
Soils	121A	Principles of Soil Science	3	2	1	2	3	Bio 1	
SocSci	20	Philippine History, Roots and Dev't.	3	3	0	3	0		
PE	4	Major/Team Sports	2	2	0			PE 1	
<b>Total</b>			<b>24</b>	<b>22</b>	<b>2</b>	<b>20</b>	<b>6</b>		

**THIRD YEAR**

<b>FIRST SEMESTER</b>									
COURSE	NO.	DESCRIPTION	UNITS	Units		Contact Hrs per week		PREREQ	
				LEC	LAB	LEC	LAB		
AnSci	100	Introduction to Animal Science	3	2	1	2	3	Bio 1	
Lit	1	Philippine Literature	3	3	0	3	0	PHILO 1	
ES	3	Differential Equations for Engineers	3	3	0	3	0	Math 9.2	
CSC	10	Fund. of Problem Solving & Programming 1(Computer Applications in Engineering I)	3	2	1	2	3	IT 1, Math 1.7	
AGEn	101	Agricultural Electrification	3	2	1	2	3	EE 11	
CP	311	Crop Protection	3	2	1	2	3	Bio 1	
ES	4	Statics of Rigid Bodies	3	3	0	0	0	Phys 10 & 10.1 & Math 9.2	
AGEn	110	Principles of Fishery Science	3	2	1	2	3	Third year Standing	
<b>Total</b>			<b>24</b>	<b>19</b>	<b>5</b>	<b>16</b>	<b>15</b>		

**SECOND SEMESTER**

COURSE	NO.	DESCRIPTION	UNITS	Units		Contact Hrs per week		PREREQ
				LEC	LAB	LEC	LAB	
ME	101	Thermodynamics	3	3	0	3	0	Phys 12, 12.1 & Math 9.2
ES	10	Engineering Economy	3	3	0	3	0	Math 9.2
SocSci	21	Philippine Government and New Const.	3	3	0	3	0	
SocSci	2	Life and Works of Rizal	3	3	0	3	0	
ES	5	Dynamics of Rigid Bodies	3	3	0	3	0	ES 4
ES	11	Fundamentals of Material Science & Engg	3	2	1	2	3	Chem 11
AgEn	100	Farm Shop Practice	2	1	1	1	3	Third Year Standing
Stat	121b	Elementary Statistics	3	2	1	2	3	Math 4
Total			<b>23</b>	<b>17</b>	<b>3</b>	<b>17</b>	<b>9</b>	

**FOURTH YEAR****FIRST SEMESTER**

COURSE	NO.	DESCRIPTION	UNITS	Units		Contact Hrs per week		PREREQ
				LEC	LAB	LEC	LAB	
ES	7	Fluid Mechanics	4	3	1	3	3	ES 5
AgEn	103	Meteorology & Hydrology (Hydrology)	3	2	1	2	3	Fourth year Standing
ES	6	Mechanics of Deformable Bodies	4	4	0	4	0	ES 5
GE	100	General Surveying 1	4	2	2	2	6	Math 2.1 & Math 1.7
ME	102	Heat Transfer	2	2	0	2	0	Phys 12, 12.1 & Math 9.2
AgEn	109	Agricultural Entrepreneurship and Management	3	3	0	3	0	4th yr standing
AgEn	104	Agricultural Structures Eng'g 1	3	3	0	3	0	ES 5
AgEn	102	Agricultural Power and Energy Sources	3	2	1	2	3	ES 10
Total			<b>26</b>	<b>21</b>	<b>5</b>	<b>21</b>	<b>15</b>	

**SECOND SEMESTER**

COURSE	NO.	DESCRIPTION	UNITS	Units		Contact Hrs per week		PREREQ
				LEC	LAB	LEC	LAB	
ES	14	Research Methods	3	2	1	2	3	4th yr standing
AgEn	111	Refrigeration Engineering	3	2	1	2	3	ME 101 & ME 102
AgEn	204	Agricultural Structures Eng'g 2	3	2	1	2	3	AgEn 104
AgEn	116	Computer Applications in Engineering 2 ( Productivity Tools)	3	2	1	2	3	CSC 101
AgEn	210	Aquaculture Engineering	3	3	0	3	0	AGEN 110
ESM	171	Intro to Remote Sensing and GIS	3	2	1	2	3	4th year standing
ES	12	Engineering Management	3	3	0	3	0	AgEn 109
AgEn	112	Machinery Design	3	2	1	2	3	ES 6, ES 11, AgEN 102
Total			<b>24</b>	<b>18</b>	<b>6</b>	<b>18</b>	<b>18</b>	

**FOURTH YEAR - SUMMER**

COURSE	NO.	DESCRIPTION	UNITS	Units		Contact Hrs per week		PREREQ
				LEC	LAB	LEC	LAB	
AgEn	500	OJT (360 hours) OJT Special Fund in lieu of miscellaneous	3					

**FIFTH YEAR****FIRST SEMESTER**

COURSE	NO.	DESCRIPTION	UNITS	Units		Contact Hrs per week		PREREQ
				LEC	LAB	LEC	LAB	
AgEn	304	Design and Management of Agricultural Buildings and Structures	3	2	1	2	3	AgEn 204
AgEn	203	Irrigation and Drainage Engineerin	3	2	1	2	3	AgEn 103 & GE 100
AgEn	106	Agricultural Waste Management	3	2	1	2	3	ES 14, ANSC 121A, Crop Science & Chem 10
AgEn	197	Undergraduate Seminar	1	1	0	1	0	5th yr standing
AgEn	202	Tractor and Agricultural Equipment Operation	3	1	2	1	6	AgEn 112, AgEn 102, ES 16
AgEn	211	Processing, Handling and Storage of Agricultural Products 1	3	2	1	2	3	AgEn 111
AgEn	199	Thesis/ Field Practice	3					5th yr standing
AgEn	113	Basic Experimental Design & Statistical Analysis	3	3	0	3	0	Stat 121b
Total			<b>22</b>	<b>13</b>	<b>6</b>	<b>13</b>	<b>18</b>	

**SECOND SEMESTER**

COURSE	NO.	DESCRIPTION	UNITS	Units		Contact Hrs per week		PREREQ
				LEC	LAB	LEC	LAB	
AgEn	198	Agricultural Engineering Law and Professional Ethics	1	1	0	1	0	5th yr standing
AgEn	108	Soil and Water Conservation Engineering	3	2	1	2	3	AgEn 103, AGEN 203
AgEn	114	Forest Products Eng'g	3	2	1	2	3	5th yr standing
AgEn	302	Agricultural Mechanization and Machinery Management	3	2	1	2	3	AgEn 112, AgEn 102, ES 16
AgEn	199	Thesis/ Field Practice	3					5th yr standing
AgEn	311	Processing, Handling and Storage of Agricultural Products 2	3	2	1	2	3	AgEn 211, AGEN 111
AgEn	115	Introduction to Operations Research	3	3	0	3	0	5th yr standing
Total			<b>19</b>	<b>12</b>	<b>4</b>	<b>12</b>	<b>12</b>	

**TOTAL UNITS 246**