

BACHELOR OF SCIENCE IN AGRICULTURAL ENGINEERING

FIRST YEAR						
FIRST SEMESTER						
CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
AENGR	110	Agricultural Engineering Orientation	1	0	1	NONE
BIO	100	Fundamentals of Biological Sciences	2	1	3	NONE
ENGL	100	Study and Thinking Skills	3	0	3	NONE
FILI	100	Komunikasyon sa Akademikong Filipino	3	0	3	NONE
HUMAN	100	Introduction to the Humanities	3	0	3	NONE
MATH	100	College Algebra	3	0	3	NONE
POLSCI	100	Philippine Government and Constitution	3	0	3	NONE
SOCSCI	100	Society & Culture with Family Planning	3	0	3	NONE
PE	100	Foundation of Physical Fitness	2	0	2	NONE
NSTP	1	National Service Training Program I	(3)	0	(3)	NONE
			TOTAL:		24	
SECOND SEMESTER						
CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
CHEM	103	General and Inorganic Chemistry	2	1	3	NONE
COMSCI	100	Computer Fundamentals	2	1	3	MATH 100
ENGL	105	Speech Communication	3	0	3	ENGL 100
FILI	105	Pagbasa at Pagsulat Tungo sa Pananaliksik	3	0	3	FILI 100
HIST	100	Philippine History	3	0	3	NONE
MATH	105	Plane Trigonometry	3	0	3	MATH 100
PI	100	Rizal's Life, Works and Writings	3	0	3	NONE
PE	105	Rhythmic Activities	2	0	2	PE 100
EUTH	100	Social Graces	(1)	0	(1)	NONE
NSTP	2	National Service Training Program II	(3)	0	(3)	NSTP 1
			TOTAL:		23	

SECOND YEAR

FIRST SEMESTER

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
CHEM	203	Organic Chemistry	2	1	3	CHEM 103
MATH	215	Calculus I with Analytic Geometry	5	0	5	MATH 105
PHYS	106	Mechanics and Heat	3	1	4	MATH 105
PHILO	100	Introduction to Philosophy	3	0	3	NONE
PSYCH	100	General Psychology	3	0	3	NONE
ENGR	210	Fundamentals of Engineering Drawing	0	2	2	NONE
PE	110	Individual and Dual Sports	2	0	2	PE 100
			TOTAL:		22	

SECOND SEMESTER

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
PHILO	120	Philosophy of the Human Person	3	0	3	NONE
MATH	220	Calculus II with Analytic Geometry	5	0	5	MATH 215
PHYS	206A	Electricity, Magnetism and Optics	3	1	4	PHYS 106
CENGR	221	Surveying	2	1	3	MATH 105
ENGR	220	Applied Engineering Drawing	0	2	2	ENGR 210
AGMGMT	100	General Economics w/ Land Reform & Taxation	3	0	3	NONE
PE	115	Team Sports	2	0	2	PE 100
			TOTAL:		22	

THIRD YEAR

FIRST SEMESTER

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
MATH	225	Calculus III with Analytic Geometry	3	0	3	MATH 220
ENGL	110	Writing in the Discipline	3	0	3	ENGL 100
ANSCI	100	Principles of Animal Science	2	1	3	BIO 100
SOILS	100	Principles of Soil Science	2	1	3	CHEM 103
CRSCI	100A	Principles of Field Crop Production	2	1	3	BIO 100/BOT 100
ENGR	311	Carpentry, Plumbing and Masonry Works	0	1	1	3rdYear Standing
ENGR	312	Engineering Mechanics	5	0	5	PHYS 106, MATH 220
EENGR	311	Principles of Electricity and Electronics	2	1	3	PHYS 206A
			TOTAL:		24	

SECOND SEMESTER

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
MATH	230	Differential Equations	3	0	3	MATH 225
ENGR	320	Engineering Materials	3	0	3	CHEM 203
ENGR	321	Strength of Materials	3	0	3	ENGR 310
ENGR	322	Engineering Economics	3	0	3	AGMGT 100
ENGR	323	Fluid Mechanics	3	1	4	P/C W/ ENGR 321
ENGR	324	Tinsmithing, Welding and Metal Works	0	1	1	P/C W/ ENGR 320
AQUA	100	Aquaculture I	3	0	3	NONE
MENGR	320	Thermodynamics	2	1	3	PHYS 206A, MATH 225
			TOTAL:		23	

FOURTH YEAR

FIRST SEMESTER

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
CENGR	414	Fund of Timber, Steel & Reinforced Concrete Structures	3	0	3	ENGR 321
AENGR	410	Hydrometeorology	2	1	3	ENGR 323
AENGR	411	Agricultural Power and Energy	2	1	3	MENGR 320
AENGR	412	Irrigation Engineering	2	1	3	ENGR 323
AENGR	413	Methods of Engineering Research	2	1	3	4 TH Year Standing
MENGR	410	Heat Transfer	2	1	3	MENGR 320, MATH 230
MENGR	411	Refrigeration Engineering	2	1	3	MENGR 320
			TOTAL:		21	

SECOND SEMESTER

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
ENGL	125	Technical Writing	3	0	3	ENGL 110
CENGR	429	Soil Mechanics & Foundation Engineering	2	0	2	4th Year Standing
AENGR	420	Agricultural Mechanization & Machinery Management	2	1	3	AENGR 411
AENGR	421	Processing of Grains, Cereals & By-Product Utilization	2	1	3	CHEM 203, ENGR 323 & MENGR 411
AENGR	422	Rural Electrification	2	1	3	EENGR 311
AENGR	423	Drainage Engineering	2	1	3	AENGR 412
AENGR	424	Agricultural Structures Engineering	2	1	3	ENGR 320, ENGR 321
AENGR	425	Aquaculture Engineering	2	1	3	AQUA 100, MATH 105
			TOTAL:		23	

SUMMER

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
AENGR	430	Tractor and Farm Eqpt. Operation & Maintenance	0	2	2	AENGR 420
AENGR	431*	Advances in Irrigation Science or	1*	0		AENGR 412
AENGR	432*	Advances in Agr'l Mechanization or	1*	0	1	AENGR 420
AENGR	433*	Advances in Renewable Energy & Environment	1*	0		AENGR 411, AENGR 422
			TOTAL:		3	

* Elective Subject (Select one subject only)

FIFTH YEAR

FIRST SEMESTER

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
ENGR	510	Introduction to Operations Research	2	1	3	5th Year Standing
AENGR	510	Processing of Perishable Farm Products	2	1	3	CHEM 203, ENGR 323 & MENGR 411
AENGR	511	Agricultural Machinery Design	2	1	3	ENGR 220, ENGR 321 & AENGR 420
AENGR	512	Soil and Water Conservation Engineering	2	1	3	AENGR 423
AENGR	513	Forest Products Engineering	2	1	3	ENGR 320
AENGR	514	Computer Application in Engineering	1	2	3	COMSCI 100
AENGR	515	Agric'l. Engg Laws, Contracts & Professional Ethics	1	0	1	5th Year Standing
AENGR or	500A	Field Practice I or				
AENGR	501A	Undergraduate Thesis I	1	0	1	AENGR 413, ENGL 125
			TOTAL:		20	

SECOND SEMESTER

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
AENGR	520	Agricultural Entrepreneurship and Management	2	1	3	5th Year Standing
AENGR	521	Design and Management of Agricultural Structures	2	1	3	AENGR 424
AENGR	522	Agricultural Waste Management	2	1	3	5th Year Standing
AENGR	523	Undergraduate Seminar	1	0	1	5th Year Standing
AENGR or	500b	Field Practice II or				AENGR 500A
AENGR	501b	Undergraduate Thesis II	1	4	5	AENGR 501A
			TOTAL:		15	

TOTAL NUMBER OF UNITS – 220