

## BS Agricultural and Biosystems Engineering Curriculum

FIRST SEMESTER		UNIT	SECOND SEMESTER		UNIT
<b>FIRST SEMESTER</b>					
BIO 1	General Biology	3	BIO 2	General Biology	3
ABE 30	Introduction to Agricultural and Biosystems Engineering	1	ANSC 1	Introduction to Animal Science	3
MATH 17	Algebra and Trigonometry	5	MATH 26	Analytic Geometry and Calculus I	3
ECON 10 (SSP)	Economics in Social Issues	3	ENSC 10a	Engineering Graphics I	2
GE	(Social Science and Philosophy)	3	CHEM 15	Fundamentals of Chemistry	3
ENG 1 (AH)	College English	3	CHEM 15.1	Fundamentals of Chemistry Laboratory	2
PE 1	Found. of Physical Fitness	(2)	ENG 2 (AH)	College Writing in English	3
			PE 2 or 3	Basic or Advanced Activity Course	(2)
TOTAL		18	TOTAL		19
<b>SECOND YEAR</b>					
MATH 27	Analytic Geometry and Calculus II	3	MATH 28	Analytic Geometry and Calculus III	3
PHYS 3	General Physics I	3	PHYS 13	General Physics II	3
STAT 1	Elementary Statistics	3	ENSC 11	Statics of Rigid Bodies	3
ENSC 10b	Engineering Graphics II	2	ABE 70	Fundamentals of Surveying	3
SOIL I	Principles of Soil Science	3	GE	(Social Science and Philosophy)	3
GE	(Arts and Humanities)	3	GE	(Mathematics, Science & Technology)	3
GE	(Mathematics, Science & Technology)	3	SPCM 1 (AH)	Speech Communication	3
PE 2/3	(Basic/Advanced Course)	(2)	PE 2/3	(Basic/Advanced Course)	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
TOTAL		20	TOTAL		
<b>THIRD YEAR</b>					
CRSC 1	Fundamentals of Crop Science I	3	CRSC 2	Fundamentals of Crop Science II	3
ABE 31	Engineering Shop	2	ENSC 15	Heat Transfer	3
ENSC 12	Dynamics of Rigid Bodies	3	ENSC 16	Fluid Mechanics	3
ENSC 13	Strength of Materials	3		Elective	3
ENSC 14	Thermodynamics	3	ENSC 18	Materials of Engineering	3
ENSC 21	Mathematical Methods in Engineering	3	GE	(Social Science and Philosophy)	3
ENSC 26	Computer Applications in Engineering I	3	GE	(Mathematics, Science & Technology)	3
TOTAL		20	TOTAL		GE
<b>FOURTH YEAR</b>					
EE 1	Basic Electrical Engineering	3	ABE 51	Crop Processing I	3
ABE 50	Refrigeration and Cold Storage	3	ABE 72	Irrigation and Drainage Engineering	3
ABE 71	Field Hydrology	3	ABE 12	Environmental Control Engineering	3
ABE 11	Agricultural Structures I	3	ABE 42	Machinery for Bio-Production Systems	3
	Machine Design for Bio-Production Systems I	4	ABE 47	Electrical System Design for Agricultural and Biosystems Structures	3
ABE 40		4	IE 150	Systems Evaluation	3
ABE 41	Agricultural and Biosystems Power Eng.	4			
TOTAL		20	TOTAL		18
<b>FIFTH YEAR</b>					
ABE 81	Aquaculture Engineering I	3	***	Specialization Course	3
ABE 73	Soil and Water Conservation Eng'g	3	***	Specialization Course	3
	Agricultural Engineering Laws, Specifications, and Contracts	1	ABE 199	Undergraduate Seminar	1
ABE 49		1	ABE 200/200a	Thesis/Practicum	3
ABE 200/200a	Thesis/Practicum	3	PI 10	Life and Works of Jose Rizal (SSP)	3
***	Specialization Course	3	IE 141	Operations Research I	3
ENG 10	Writing of Scientific Papers	3		Elective	3
GE	(Arts and Humanities)	3			
TOTAL		19	TOTAL		19

**Total Number of Units = 195**

\*All students are required to undergo National Service Training Program (NSTP; 6 units) for one year as a requirement for graduation.

\*\*A 3-unit course on Philippine Studies can be chosen by the student from the list of qualified courses

