

UNIVERSITY OF THE PHILIPPINES LOS BAÑOS
COLLEGE OF AGRICULTURE

BACHELOR OF SCIENCE IN AGRICULTURAL BIOTECHNOLOGY

(Effective First Semester 2011-2012)

Name _____ Student No. _____ Adviser _____

FIRST YEAR

FIRST SEMESTER		HRS	UNITS	PREREQUISITES
ABT 11	Introduction to Agricultural Biotechnology	1	1	
ENG 1(AH)	College English		3	
MATH 11	College Algebra	3	3	
G.E. (SSP)	(Social Science and Philosophy)		3	
G.E. (MST)	(Math Science and Technology)		3	
BOT 1	Introduction to Plant Science	5	3	
ZOO 1	General Zoology	5	3	
P.E. 1	Foundations of Physical Fitness	2	(2)	
			19	

SECOND SEMESTER

CHEM 15.0*	Fundamentals of Chemistry	3	3	MATH 11
CHEM 15.1*	Fundamentals of Chemistry (Laboratory)	6	2	
ENG 2(AH)	College Writing in English		3	
MATH 14	Plane Trigonometry	3	3	MATH 11
ANSC 1	Introduction to Animal Science	5	3	BIO 1 or ZOO 1
CRSC 1	Fundamentals of Crop Science I	5	3	BIO 1 or BOT 1
AEC 1	Agricultural Extension Communication	3	3	
P.E. 2 or 3	Basic or Advanced Course	2	(2)	
			20	

SECOND YEAR

FIRST SEMESTER

ANSC 2	Intro to Livestock and Poultry Production	5	3	ANSC 1
CRPT 1	Principles of Crop Protection	5	3	
CHEM 40.0*	Basic Organic Chemistry	3	3	CHEM 15.0 and CHEM 15.1 or CHEM 17.0 and CHEM 17.1
CHEM 40.1*	Basic Organic Chemistry (Laboratory)	3	1	
BIO 30	Genetics	5	3	(BIO 2 or BIO 3 or BOT 1) and ZOO 1
CRSC 2	Fundamentals of Crop Science II	5	3	CRSC 1
SPCM 1 (AH)	Speech Communication I		3	
P.E. 2 or 3	Basic or Advanced Course	2	(2)	
NSTP 1	National Service Training Program	3	(3)	
			19	

SECOND SEMESTER

ABT 101	Fundamentals of Agricultural Biotechnology	3	3	BIO 30 & CHEM 40.0 and CHEM 40.1
CRPT 2	Pest Management	5	3	CRPT 1
MATH 26	Analytic Geometry and Calculus I	3	3	MATH 14 or MATH 17
MCB 1	General Microbiology	5	3	
STAT 1	Elementary Statistics	5	3	MATH 11 or MATH 17
G.E. (MST)	(Math, Science and Technology)		3	
P.E. 2 or 3	Basic or Advanced Course	2	(2)	
NSTP 2	National Service Training Program	3	(3)	
			18	

NOTE:

*Co-requisites

THIRD YEAR

FIRST SEMESTER		HRS	UNITS	PREREQUISITE
ABT 105	Experimental Techniques in Agricultural Biotechnology	7	3	ABT 101 or COI
CMSC 11	Introduction to Computer Science	5	3	MATH 11 or MATH 17
BOT 20	Elementary Plant Physiology	5	3	CHEM 15.0 and CHEM 15.1 or CHEM 16.0 and CHEM 16.1 & BOT 1 or BIO 2 or BIO 3
CHEM 160	Introductory Biochemistry	3	3	CHEM 40.0 and CHEM 40.1
SOIL 1	Principles of Soil Science	5	3	CHEM 15.0 and CHEM15.1 or CHEM 16.0 and CHEM 16.1
GE (AH)	(Arts and Humanities)		3	
<i>PI 10 (SSP)</i>	<i>The Life and Works of Jose Rizal</i>		3	

21**SECOND SEMESTER**

ABT 107	Recombinant DNA Technology	3	3	ABT 101 or COI
AGRI 161	Innovation and Entrepreneurship in Agriculture	3	3	COI
PHYS 3	General Physics I (Mechanics and Heat)	5	3	MATH 14 or MATH 17
STAT 162	Experimental Design I	5	3	STAT 1
GE (AH)	(Arts and Humanities)		3	
G.E. (SSP)	(Social Science and Philosophy)		3	
CHEM 160.1	Introductory Biochemistry (Laboratory)	6	2	CHEM 160 (can be concurrent)

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

ABT 106	Molecular Markers	5	3	ABT 101 or COI
SPECIALIZED Course 1			3	
SPECIALIZED Course 2			3	
AGRI 199	Colloquium in Agriculture	1	(1)	Senior Standing
ABT 200/200a	Undergraduate Thesis/Major Practice		3	
G.E. (SSP)	(Social Science and Philosophy)		3	
G.E. (MST)	(Math, Science and Technology)		3	

18**SECOND SEMESTER**

ABT 108	Issues and Regulation of Agricultural Biotechnology	3	3	ABT 107 or COI
SPECIALIZED Course 3			3	
Elective			3	
ABT 199	Undergraduate Seminar	1	(1)	
ABT 200/200a	Undergraduate Thesis/Major Practice		3	
G.E. (SSP)	(Social Science and Philosophy)		3	

15**TOTAL NUMBER OF UNITS****150**