



Office of the Board Secretary

LEYTE STATE UNIVERSITY
Visca, Baybay, Leyte 6521 A
Philippines

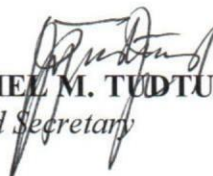
EXCERPTS OF APPROVED MINUTES OF THE
10th LSU Board of Regents Meeting
01 May 2003 * FARM Bldg.
LSU, Visca, Baybay, Leyte

Proposal to Revise the Bachelor of
Science in Agriculture (BSA) Curriculum



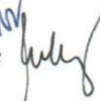
Board Resolution No. 35, s. 2003

Approving the Proposed Changes in the
Bachelor of Science in Agriculture Curriculum, as
presented.

Certified True and Correct


DANIEL M. TUDTUD JR.
Board Secretary

Board Action: **APPROVED**
Date: 01 May 2003
Attachment: P

Cc: OVPAA - 
Univ. Registrar - 
College of Agriculture 



LEYTE STATE UNIVERSITY

Visca, Baybay, Leyte 6521
Philippines

Office of the President

1 May 2003

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**The Honorable Chairman and
Members of the LSU Board of Regents**

Ladies/Gentlemen:

I am hereby endorsing the "**Proposal to Revise the Bachelor of Science in Agriculture (BSA) Curriculum**" which has been deliberated and approved by the University Academic Council during its meeting on April 24, 2003.

I am therefore, recommending the same **FOR APPROVAL** by the Board of Regents.

Very truly yours,

PACIENCIA P. MILAN
President

BOARD ACTION: _____
DATE : 1 May 2003

PROPOSAL TO REVISE THE BACHELOR OF SCIENCE IN AGRICULTURE (BSA) CURRICULUM

I. Rationale

The need to incorporate the CHED mandated general education courses and the institutionalization of the licensure examination for agriculture graduates as mandated by RA 8435 or the Agriculture and Fisheries Modernization Act (AFMA) necessitate the revision of the BSA curriculum in LSU. Nine (9) CHED-mandated courses need to be incorporated into the curriculum. Since the existing curriculum has a total of 166 units, which is already way above that in other schools like UPLB with only 151 units, it is inevitable that some general education courses be deleted and the number of major courses, reduced.

The deletion of courses shall also necessitate some changes in the scheduling of some general education, fundamental and major courses. In addition, other revisions such as changing courses from elective to required and *vice versa* need to be introduced after analyzing what courses are best for students given the current realities in the field.

II. Target Clientele

1. High School graduates
2. Students enrolled in related courses and planning to shift to BSA.

III. Graduate Profile

A. Cognitive

1. Understand and elucidate concepts and theories in crop science and related fields.
2. Critically analyze and evaluate vital issues related to the crop industry.
3. Identify research problems and formulate plans appropriate with current trends in crop science.

B. Psychomotor

1. Apply integrated methods and/or approaches in crop production and management.
2. Utilize ecologically, economically and socially sound technologies in crop production and management.
3. Implement sustainable crop production and development programs appropriate to specific situations.

C. Affective

1. Cultivate a positive attitude toward crop production and management.
2. Display initiative in improving efficiency of crop production systems
3. Show strong desire to keep abreast with current trends and advances in crop production and management.

IV. Inclusion of Courses

1) Course No.	CS 21
Course Title	Introduction to Computers
Course Description	Development of computers; components of a computer system, microcomputer operation; word processing, electronic spreadsheets, electronic presentation; the internet.
Credit	3 units (2 hrs lec; 3 hrs lab)
Prerequisite	None

- 1 2) Course No. : ScSc 16
 2 Course Title : Life and Works of Rizal
 3 Course Description : A study of the various phases of Rizal's life and his work with
 4 emphasis on the Noli Me Tangere and El Filibusterismo
 5 Credit : 3 units (3 hrs lec)
 6 Prerequisite : Consent of Instructor
 7
- 8 3) Course No. : ScSc 15
 9 Course Title : Philippine History and Constitution
 10 Course Description : Political, socio-economic and cultural development of the
 11 Philippines; the New Philippine Constitution and other instituted
 12 laws.
 13 Credit : 3 units (3 hrs lec)
 14 Prerequisite : None
 15
- 16 4) Course No. : Engl 21
 17 Course Title : Introduction to Literature
 18 Course Description : Study on the short story, drama and poetry, their nature, form and
 19 elements.
 20 Credit : 3 units (3 hrs lec)
 21 Prerequisite : Engl12
 22
- 23 5) a. Course No. : NSTP 11 (Civic Welfare/Military Service)
 24 Credit : 3 units (4 hrs/wk)
 25
- 26 b. Course No. : NSTP 12 (Civic Welfare/Military Science)
 27 Credit : 3 units (4 hrs/wk)
 28

29 Rationale:

30
 31 The general education courses listed above (1-4) are CHED mandated courses and
 32 therefore need to be incorporated in the curriculum. The two NSTP courses shall replace
 33 the ROTC courses for male students as mandated by law and the euthenics courses taken
 34 by female students. The NSTP courses are required for first year students.
 35

36 **V. Exclusion/Replacement of Courses**

- 37
- 38 1) Course No. : PI 11
 39 Course Title : Philippine History, Constitution and Rizal
 40 Course Description : Political, socio-economic and cultural development of the
 41 Philippines; the Philippine Constitution, significance of
 42 Rizal's Life and works to the Filipino people.
 43 Credit : 3 units (3 hrs lec)
 44 Prerequisite : None
 45

46 Rationale:

47
 48 This course is replaced by two CHED mandated courses, SocSci 16 (Life
 49 and Works of Rizal) and SocSci 15 (Philippine History and Constitution)
 50

- 51 2) Course No. : Engl 26
 52 Course Title : Argumentation and Debate
 53 Course Description : A study on the principles of argumentation and debate:
 54 applications of concepts and theories
 55 Credit : 3 units (3 hrs lec)
 56 Prerequisite : Engl 12, Spch 11
 57
- 58 3) Course No. : Engl 15
 59 Course Title : Advanced Grammar and Composition
 60 Course Description : Analysis of the English Language structures, mechanics
 61 and stylistic variations in composition writing.
 62 Credit : 3 units (3 hrs lec)
 63 Prerequisite : Engl 12

Rationale:

The total number of language courses required by CHED is already satisfied.

- 4) a. Course No. : Euth 11
 Course Title : Personality Development and Adjustment
 Credit : 1 unit (1 hr lec)

- b. Course No. : Euth 12
 Course Title : Human Relations
 Credit : 1 unit (1 hr lec)

Rationale:

These courses are to be replaced by NSTP (CWTS/ROTC) 11 and 12 as mandated by law.

- 5) a. Course No. : Euth 13
 Course Title : Moral and Spiritual Values
 Credit : 1 unit (1 hr lec)

- b. Course No. : Euth 14
 Course Title : Career Development
 Credit : 1 unit (1 hr lec)

Rationale:

There are no equivalent NSTP courses for second year students and requirements are already satisfied by the two NSTP courses.

VI. Institution of two (2) new major elective courses.

A. For majors in Plant Protection

1. Course Number : Ento 118
 Course Title : Economic Entomology
 Course Description : Identification, biology and ecology of economically important insects/mites, their natural enemies and control
 Credit : 3 units (2 hrs lec; 3 hrs lab)
 Prerequisite : Ento 112 (General Entomology)

Rationale:

After taking the course students shall have working knowledge on insects and mites of agricultural and medical importance. They shall be able to identify important species of these arthropods and demonstrate knowledge and understanding of the national and global problems they cause, strategies that are used to control them and current research in applied entomology

3. For majors in Plant Breeding

2. Course Number : PBre 125
 Course Title : Techniques in Plant Breeding
 Course Description : Introduction to morphological, cytological, biochemical, molecular and *in vitro* techniques in plant breeding.
 Credit : 3 units (1 hr lec; 6 hrs lab)
 Prerequisite : Botn 21 (General Botany)

Rationale:

4

The proposed course aims to put together the relevant strategies and techniques in support of plant breeding. Students shall be equipped with the knowledge and skills on conventional and non-conventional tools necessary in genotype identification and selection. These include some techniques that are covered in several existing courses (but cannot anymore be taken by students because of reduction in required number of major courses) and new techniques not taught in any existing course.

III. COURSE ANALYSIS

FIRST YEAR First Semester

Existing

Course	Descriptive Title	Hours		Units
		Lec	Lab	
Biol11	General Biology	3	3	4
Chem11	General Chemistry I	3	3	4
Engl11	Communication Skills I	3	0	3
Math11	College Algebra	3	0	3
Psyc11	General Psychology	3	0	3
Socs13	Socio-Economics Systems	3	0	3
PhyEd 11	Phys. Fit. & Gymnastics	2	0	(2)
Euth11/	Personality Devt. & Adjust.	1/	0	(1/)
ROTC11	First Year Basic Course	1.5	0	(1.5)
				20

Proposed

Course	Descriptive Title	Hours		Units
		Lec	Lab	
Biol11	General Biology	3	3	4
Chem11	General Chemistry I	3	3	4
Engl11	Communication Skills I	3	0	3
Math11	College Algebra	3	0	3
Psyc11	General Psychology	3	0	3
Socs13	Socio-Economics Systems	3	0	3
PhyEd 11	Phys. Fit. & Gymnastics	2	0	(2)
NSTP 11	Nat. Service & Trng. Prog.			(3)
				20

FIRST YEAR Second Semester

Course	Descriptive Title	Hours		Units
		Lec	Lab	
Botn21	General Botany	2	3	3
Ecol21	Fundamentals of Ecology	2	3	3
Engl12	Communication Skills II	3	0	3
Math22	Plane Trigonometry	3	0	3
Socs14	Phil. Soc. Problem, Land Reform and Taxation	3	0	3
Socio11	General Sociology	3	0	3
Zool21	General Zoology	2	3	3
PhyEd 12	Rec. Games & Rhyt. Act	2	0	(2)
Euth 12/	Human Relations	1/	0	(1/)
ROTC 12	First Year Basic Course	1.5	0	(1.5)
				21

Course	Descriptive Title	Hours		Units
		Lec	Lab	
Botn21	General Botany	2	3	3
Chem21	General Chemistry II	2	3	3
Engl12	Communication Skills II	3	0	3
Math12	Plane Trigonometry	3	0	3
Socs14	Phil. Soc. Problem, Land Reform and Taxation	3	0	3
Socio11	General Sociology	3	0	3
Zool21	General Zoology	2	3	3
PhyEd 12	Rec. Games & Rhyt. Act	2	0	(2)
NSTP 12	Nat. Service & Trng. Prog.			(3)
				21

SECOND YEAR First Semester

Course	Descriptive Title	Hours		Units
		Lec	Lab	
Agro 21	Fund. Of Crop Production	2	3	3
Biol22	Principles of Genetics	2	3	3
Engl15	Adv. Grammar and Comp.	3	0	3
Hum 11	Introd. to Humanities	3	0	3
Philo12	Contemporary Philosophical Thoughts	3	0	3
Phys11	General Physics	3	3	4
PPrt21	Principles of Plant Prot.	2	3	3
PhyEd 13	Team Sports	2	0	(2)
Euth13/	Moral and Spiritual Values	1/	0	(1/)
ROTC21	2 nd Year Basic Course	1.5	0	(1.5)
				22

Course	Descriptive Title	Hours		Units
		Lec	Lab	
Agro21	Fund. Of Crop Production	2	3	3
Biol22	Principles of Genetics	2	3	3
AnSci21	Prin. of Animal Science	2	3	3
Hum 11	Introd. to Humanities	3	0	3
Socs15	Phil. History, Government and Constitution	3	0	3
Phys11	General Physics	3	3	4
PPrt21	Principles of Plant Prot.	2	3	3
PhyEd 13	Team Sports	2	0	(2)
				22

SECOND YEAR Second Semester

Course	Descriptive Title	Hours		Units
		Lec	Lab	
Chem21	General Chemistry II	2	3	3
Econ21	Farm Management	2	3	3
Hort22	General Horticulture	2	3	3
Micr22	General Microbiology	2	3	3
Spch11	Speech Communication	3	0	3
SS 22	Fund. Of Soil Science	2	3	3
Stat21	Elementary Statistics	2	3	3
PhyE 14	Individual/Dual Sports	2	0	(2)
Euth 14/	Career Development/	1/	0	(1/)
ROTC 22	2 nd Year Basic Course	1.5	0	(1.5)
				21

Course	Descriptive Title	Hours		Units
		Lec	Lab	
Philo12	Contemp. Philo. Thoughts	3	0	3
Econ21	Farm Management	2	3	3
Hort22	General Horticulture	2	3	3
Micr22	General Microbiology	2	3	3
Spch11	Speech Communication	3	0	3
Soil22	Fund. Of Soil Science	2	3	3
Stat21	Elementary Statistics	2	3	3
PE 14	Individual/Dual Sports	2	0	(2)
				21

**THIRD YEAR
First Semester**

6

Existing

Course	Descriptive Title	Hours		Units
		Lec	Lab	
AnSc 21	Prin. of Animal Science	2	3	3
Chem31	Biochemistry	3	0	3
SS 23	Soil Fertility and Fertilizers	2	3	3
Fi 25	Sining ng Pakikipagtalastasan	3	0	3
MAJOR	-see list-	-	-	3
MAJOR	-do-	-	-	3
MAJOR	-do-	-	-	3
				21

Proposed

Course	Descriptive Title	Hours		Units
		Lec	Lab	
Ecol21	Fundamentals of Ecology	2	3	3
Chem31	Biochemistry	3	0	3
Soil23	Soil Fertility and Fertilizers	2	3	3
CS 21	Introduction to Computers	2	3	3
MAJOR	-see list-	-	-	3
MAJOR	-do-	-	-	3
MAJOR	-do-	-	-	3
				21

**THIRD YEAR
Second Semester**

Course	Descriptive Title	Hours		Units
		Lec	Lab	
AnSc 22	Prin. of Animal Production	2	3	3
PPrt22	Pest Control	2	3	3
Engl26	Argumentation and Debate	3	0	3
MAJOR	-see list-	-	-	3
MAJOR	-do-	-	-	3
MAJOR	-do-	-	-	3
____200 ^{1/}	Undergraduate Thesis	-	-	1
				19 ^{1/}

Course	Descriptive Title	Hours		Units
		Lec	Lab	
AnSc22	Prin. of Animal Production	2	3	3
PPrt22	Pest Control	2	3	3
Engl21	Introduction to Literature	3	0	3
MAJOR	-see list-	-	-	3
MAJOR	-do-	-	-	3
MAJOR	-do-	-	-	3
MAJOR	-do-	-	-	3
____200 ^{1/}	Undergraduate Thesis	-	-	1
				22 ^{1/}

**THIRD YEAR
Summer^{2/}**

**FOURTH YEAR
First Semester**

Course	Descriptive Title	Hours		Units
		Lec	Lab	
AE 30	Irrig. Drainage & Meteor	2	3	3
FS 121(M)	Fund. Of Farming Systems	2	3	3
PI 11	Phil History, Const. & Rizal	3	0	3
MAJOR	-see list-	-	-	3
MAJOR	-do-	-	-	3
MAJOR	-do-	-	-	3
MAJOR	-do-	-	-	3
MAJOR ^{3/}	-do-	-	-	3
____200/200a	Undergraduate Thesis/ Field Practice	-	-	1
				22 ^{3/}

Course	Descriptive Title	Hours		Units
		Lec	Lab	
AE 30	Irrig. Drainage & Meteor	2	3	3
Fi 11	Sining ng Pakikipagtalas..	3	0	3
MAJOR	-see list-	-	0	3
MAJOR	-do-	-	-	3
MAJOR	-do-	-	-	3
MAJOR	-do-	-	-	3
MAJOR ^{3/}	(for field practice option)	-	-	3
____200/200a	Undergraduate Thesis/ Field Practice	-	-	1
				19/22

**FOURTH YEAR
Second Semester**

Course	Descriptive Title	Hours		Units
		Lec	Lab	
AE 50	Farm Mach. & Equipment	2	3	3
Fi 12	Panitikang Pilipino	3	0	3
MAJOR	-see list-	-	-	3
MAJOR	-do-	-	-	3
MAJOR	-do-	-	-	3
MAJOR ^{3/}	-do-	-	-	3
____199	Undergraduate Seminar	1	-	1
____200/200a	Undergraduate Thesis/ Field Practice	-	-	4/1-2
				20/20-21

Course	Descriptive Title	Hours		Units
		Lec	Lab	
AE 50	Farm. Mach. & Equipment	2	3	3
Fi 12	Panitikang Pilipino	3	0	3
Socs 16	Life and Works of Rizal	3	0	3
MAJOR	(see list)	-	-	3
MAJOR ^{3/}	(for field practice option)	-	-	3
____199	Undergraduate Seminar	1	-	1
____200/200a	Undergraduate Thesis/ Field Practice	-	-	4/1-2
				17/17-18

Total Number of Units = 166^{4/}

Total no. of units for thesis option = 163

Total no. of units for field practice option = 169

^{1/} Students in the Field Practice Option would not enroll 200 and will thus have one (1) less the number of units for the semester

^{2/} Students in the Field Practice Option will enroll 200a in Summer

^{3/} Students in the Field Practice Option will enroll two additional relevant courses (one per semester) correspondingly changing the number of units for the semester.

IV. List of Core and Elective Major Courses

Course	Year/Semester
A. Ag. Botany Majors	
<u>Core Courses</u>	<u>Year and Sem. Taken</u>
Botn112 (Plant Biochemistry)	3 rd Yr., 2 nd Sem
Botn113 (Principles of Plant Physiology)	3 rd Yr., 1 st Sem
Botn114 (Inorganic Nutrition of Plants)	3 rd Yr., 2 nd Sem
Botn115 (Plant Growth and Development)	4 th Yr., 1 st Sem
Botn122 (Plant Morphology and Anatomy)	3 rd Yr., 2 nd Sem
Botn141 (Plant Systematics)	4 th Yr., 1 st Sem
Botn142 (Introductory Plant Ecology)	4 th Yr., 2 nd Sem
AgEx132 (Principles, Methods and Strategies in Ext.)	4 th Yr., 1 st Sem
FSys121 (Fundamentals of Farming Systems)	4 th Yr., 1 st Sem
PBre117 (Exp'l. Designs and Field Plot Techniques)	3 rd Yr., 1 st Sem
AgBo198 (Research Planning & Manuscript Preparation)	3 rd Yr., 1 st Sem
AgBo199 (Undergraduate Seminar)	4 th Yr., 2 nd Sem
AgBo200 (Undergraduate Thesis)	3 rd Yr. 2 nd Sem, 4 th Yr. 1 st Sem. & 2 nd Sem.
<u>Elective Courses</u>	<u>Semester Offered</u>
Botn116 (Cytology and Cytogenetics)	2 nd Sem
Botn124 (Plant Microtechnique)	2 nd Sem
Botn143 (Introductory Phycology)	1 st Sem
Botn145 (Cryptogams)	1 st Sem
Botn146 (Economic Botany)	2 nd Sem
Agro121 (Root Crops)	1 st Sem
Agro144 (Cereals)	2 nd Sem
Hort141 (Tropical Olericulture)	2 nd Sem
PBre110 (Gen. Principles & Methods of Plant Breeding)	1 st Sem
B. Ag. Economics Majors	
<u>Core Courses</u>	<u>Year and Sem. Taken</u>
AgEc111 (Agricultural Economics Statistics)	3 rd Yr., 1 st Sem
AgEc113 (Microeconomics)	3 rd Yr., 2 nd Sem
AgEc114 (Macroeconomics)	3 rd Yr., 1 st Sem
AgEc116 (Agricultural Policy)	4 th Yr., 2 nd Sem
AgEc144 (Marketing of Agricultural Products)	4 th Yr., 1 st Sem
AgEc148 (Analyzing Agricultural Economics Data)	3 rd Yr., 2 nd Sem
AgEx132 (Principles, Methods & Strategies in Ext.)	4 th Yr., 1 st Sem
FSys121 (Fundamentals of Farming Systems)	4 th Yr., 1 st Sem
Math101 (Elementary Calculus)	3 rd Yr., 1 st Sem
AgEc198 (Research Planning & Manuscript Prepn.)	3 rd Yr., 2 nd Sem
AgEc199 (Undergraduate Seminar)	4 th Yr., 2 nd Sem
AgEc200 (Undergraduate Thesis)	3 rd Yr. 2 nd Sem, 4 th Yr. 1 st Sem. and 2 nd Sem.
<u>Elective Courses</u>	<u>Semester Offered</u>
AgEc112 (Cooperatives)	2 nd Sem
AgEc131 (Farm Finance)	1 st Sem
AgEc135 (Intro. to Natural Resources Economics)	1 st Sem
AgEc141 (Agricultural Price Analysis)	1 st Sem
AgEc142 (Business Administration & Mgt.)	2 nd Sem

C. Agronomy Majors

Core Courses

Year and Sem. Taken

Agro121 (Root Crops)	3 rd Yr., 1 st Sem
Agro123 (Seed Technology)	3 rd Yr., 2 nd Sem
Agro141 (Cropping Systems)	4 th Yr., 1 st Sem
Agro142 (Legumes)	3 rd Yr., 2 nd Sem
Agro144 (Cereal Production)	3 rd Yr., 2 nd Sem
AgEx132 (Principles, Methods & Strategies in Ext.)	4 th Yr., 1 st Sem
Botn113 (Principles of Plant Physiology)	3 rd Yr., 2 nd Sem
FSys121 (Fundamentals of Farming Systems)	4 th Yr., 1 st Sem
PBre117 (Exp'l. Designs & Field Plot Techniques)	3 rd Yr., 1 st Sem
Agro198 (Research Planning & Manuscript Preparation)	3 rd Yr., 1 st Sem
Agro199 (Undergraduate Seminar)	4 th Yr., 2 nd Sem
Agro200 (Undergraduate Thesis)	3 rd Yr. 2 nd Sem, 4 th Yr. 1 st Sem. and 2 nd Sem.

Elective Courses

Semester Offered

Agro122 (Annual Fibers)	2 nd Sem
Agro124 (Sugarcane)	2 nd Sem
Agro143 (Forage and Pasture)	1 st Sem
Botn114 (Inorganic Nutrition of Plants)	2 nd Sem
Botn115 (Plant Growth and Development)	1 st Sem
Botn142 (Introductory Plant Ecology)	2 nd Sem
Hort111 (Postharvest Physiology of Perishable Crops)	2 nd Sem
PBre110 (General Principles & Methods of Plant Breeding)	1 st Sem
Soil115 (Soil Chemistry)	1 st Sem
WdSc112 (Introductory Weed Science)	1 st Sem
Soil 114 (Soil and Water Conservation)	2 nd Sem

D. Horticulture Majors

Core Courses

Year and Sem. Taken

Hort111 (Postharvest Physiol. of Perishable Crops)	3 rd Yr., 2 nd Sem
Hort121 (Plant Propagation and Nursery Mgt.)	4 th Yr., 1 st Sem
AgEx132 (Principles, Methods & Strategies in Ext.)	3 rd Yr., 2 nd Sem
Botn113 (Principles of Plant Physiology)	3 rd Yr., 1 st Sem
FSys121 (Fundamentals of Farming Systems)	4 th Yr., 1 st Sem
PBre111 (Principles of Plant Breeding)	3 rd Yr., 1 st Sem
PBre117 (Exp'l. Designs & Field Plot Techniques)	3 rd Yr., 2 nd Sem
Hort198 (Research Planning & Manuscript Preparation)	3 rd Yr., 1 st Sem
Hort199 (Undergraduate Seminar)	4 th Yr., 2 nd Sem
Hort200 (Undergraduate Thesis)	3 rd Yr. 2 nd Sem, 4 th Yr. 1 st Sem. and 2 nd Sem.

Elective Courses

Semester Offered

Hort112(Plant'n. Crop Production and Mgt. I)	2 nd Sem
Hort122 (Floriculture and Landscape Mgt.)	1 st and 2 nd Sem
Hort141 (Tropical Olericulture)	1 st Sem
Hort142 (Plant'n. Crop Production and Mgt. II)	1 st Sem
Hort143 (Pomology and Orchard Mgt.)	1 st and 2 nd Sem
Hort144 (Plantation Crop Products)	2 nd Sem
Hort173 (Introduction to Plant Tissue Culture)	2 nd Sem
Agro123 (Seed Technology)	2 nd Sem

E. Plant Breeding Majors

Core Courses

PBre111 (Principles of Plant Breeding)	3 rd Yr., 1 st Sem
PBre112 (Methods in Plant Breeding)	3 rd Yr., 2 nd Sem
PBre115 (Plt. Genetic Res. Conser. & Utilization)	4 th Yr., 1 st Sem.
PBre117 (Exp'l. Designs & Field Plot Techniques)	3 rd Yr., 1 st Sem
PBre122 (Plant Genetics I)	3 rd Yr., 2 nd Sem
PBre123 (Plant Genetics II)	3 rd Yr., 2 nd Sem
AgEx132 (Prin. Methods and Strategies in Ext.)	4 th Yr., 1 st Sem
Botn113 (Principles of Plant Physiology)	3 rd Yr., 2 nd Sem
FSys121 (Fundamentals of Farming Systems)	4 th Yr., 1 st Sem
PBre198 (Research Planning & Manuscript Preparation)	3 rd Yr., 1 st Sem
PBre199 (Undergraduate Seminar)	4 th Yr., 2 nd Sem
PBre200 (Undergraduate Thesis)/	3 rd Yr. 2 nd Sem, 4 th Yr. 1 st Sem and 2 nd Sem/
PBre200a (Undergraduate Field Practice)	Summer, 4 th Yr. 1 st Sem and 2 nd Sem.

Elective Courses

PBre125 (Techniques in Plant Breeding)	1 st Sem
Agro123 (Seed Technology)	2 nd Sem
Biol138 (Intro. to Cell and Molecular Biology)	2 nd Sem
Botn122 (Plant Morphology and Anatomy)	2 nd Sem
Botn112 (Plant Biochemistry)	2 nd Sem
Botn124 (Plant Microtechnique)	2 nd Sem
Botn141 (Plant Systematics)	1 st Sem
Ento112 (General Entomology)	1 st Sem
Hort173 (Introduction to Plant Tissue Culture)	2 nd Sem
Math101 (Elementary Calculus 1)	1 st Sem
PPat111 (General Plant Pathology)	1 st Sem

F. Plant Protection Majors

Core Courses

PPat111 (General Plant Pathology)	3 rd Yr., 1 st Sem
Ento112 (General Entomology)	3 rd Yr., 1 st Sem
WdSc112 (Introductory Weed Science)	3 rd Yr., 1 st Sem
PPrt162 (Introduction to Pesticides)	4 th Yr., 2 nd Sem
PPrt172 (Biological Pest Control)	3 rd Yr., 2 nd Sem
AgEx132 (Principles, Methods & Strategies in Ext.)	4 th Yr., 1 st Sem
FSys121 (Fundamentals of Farming Systems)	4 th Yr., 1 st Sem
PBre117 (Exp'l. Designs & Field Plot Techniques)	4 th Yr., 1 st Sem
PPrt198 (Research Planning & Manus. Preparation)	3 rd Yr., 2 nd Sem
PPrt199 (Undergraduate Seminar)	4 th Yr., 2 nd Sem
PPrt200 (Undergraduate Thesis)	3 rd Yr. 2 nd Sem, 4 th Yr. 1 st Sem. and 2 nd Sem.

Elective Courses

Ento114 (Medical and Veterinary Entomology)	2 nd Sem
Ento118 (Economic Entomology)	2 nd Sem
Ento127 (Insect Physiology)	2 nd Sem
Ento141 (Insect Taxonomy)	1 st Sem
Ento174 (Industrial Entomology)	2 nd Sem
PPat113 (Plant Disease Diagnosis)	1 st Sem
PPat114 (Introductory Plant Virology)	2 nd Sem
PPat115 (Introductory Phytobacteriology)	2 nd Sem
PPat116 (Introductory Mycology)	2 nd Sem

PPat118 (Introductory Nematology)	2 nd Sem
PPrt192 (Biological Techniques)	2 nd Sem
WdSc113 (Biology and Ecology of Weeds)	2 nd Sem
Botn113 (Principles of Plant Physiology)	1 st and 2 nd Sem
Botn115 (Plant Growth and Development)	2 nd Sem
Botn141 (Plant Systematics)	1 st Sem
PBre110 (General Prin. & Methods of Plant Breeding)/	1 st Sem/
PBre111 (Principles of Plant Breeding)	1 st Sem

G. Soil Science Majors

Core Courses

Soil111 (Agricultural Geology)	3 rd Yr., 1 st Sem
Soil112 (Soil Survey and Classification)	3 rd Yr., 2 nd Sem
Soil113 (Soil Microbiology)	4 th Yr., 1 st Sem
Soil115 (Soil Chemistry)	4 th Yr., 1 st Sem
Soil116 (Soil Physics)	4 th Yr., 2 nd Sem
AgEx132 (Principles, Methods & Strategies in Ext.)	4 th Yr., 1 st Sem
FSys121 (Fundamentals of Farming Systems)	4 th Yr., 1 st Sem
PBre117 (Expt'l. Designs & Field Plot Techniques)	3 rd Yr., 1 st Sem
Soil198 (Research Planning & Manus. Preparation)	3 rd Yr., 1 st Sem
Soil199 (Undergraduate Seminar)	4 th Yr., 2 nd Sem
Soil200 (Undergraduate Thesis)	3 rd Yr. 2 nd Sem, 4 th Yr. 1 st Sem. and 2 nd Sem.

Elective Courses

Soil114 (Soil & Water Conservation)	2 nd Sem
Soil144 (Soil & Plant Diagnostic Techniques)	2 nd Sem
Soil146 (Fertilizer Manufacture & Chemistry)	2 nd Sem
Agro141 (Cropping Systems).	1 st Sem
Agro142 (Legumes)	2 nd Sem
Agro144 (Cereal Production)	2 nd Sem
Botn113 (Principles of Plant Physiology)	1 st and 2 nd Sem
Botn114 (Inorganic Nutrition of Plants)	2 nd Sem
Chem133 (Quantitative Inorganic Analysis)	2 nd Sem
Fory155 (Aerial Photo-Interpretation)	1 st Sem

V. SUMMARY OF COURSES

A. General Education (60 units)

1. Language, Speech and Humanities (24 units)

Engl11	Communication Skills 1	3
Engl12	Communication Skills II	3
Engl21	Introduction to Literature	3
Spch11	Speech Communication	3
Filp11	Sining at Pakikipagtalastasan	3
Filp12	Panitikang Pilipino	3
Hum11	Introduction to Humanities	3
Philo12	Contemporary Philosophical Thoughts	3

2. Mathematics and Natural Sciences (18 units)

Math11	College Algebra	3
Math12	Plane Trigonometry	3
Chem11	General Chemistry 1	4
Biol11	General Biology	4
Phys11	General Physics	4

3. Social Science (18 units)

Socs11	General Sociology	3
Psyc11	General Psychology	3
ScSc13	Socio-economics Systems	3
ScSc14	Phil. Soc. Prob., Land Ref. & Taxation	3
ScSc15	Phil. History and Constitution	3
ScSc16	Life and Works of Rizal	3

B. Fundamental Courses (60 Units)

1. Mathematics and Natural Sciences (27 units)

Botn21	General Botany	3
Ecol21	Fundamentals of Ecology	3
Zool21	General Zoology	3
Biol22	Principles of Genetics	3
Chem21	General Chemistry 11	3
Chem31	Biochemistry	3
Stat21	Elem. Statistics	3
Micr22	General Microbiology	3
CS21	Introduction to Computers	3

2. Agricultural Sciences (33 Units)

Agro21	Fundamentals of Crop Production	3
PPrt21	Principles of Plant Protection	3
PPrt22	Pest Control	3
Econ21	Farm Management	3
Hort22	General Horticulture	3
Soil22	Fundamentals of Soil Science	3
Soil23	Soil Fertility and Fertilizers	3
AnSc21	Principles of Animal Science	3
AnSc22	Principles of Animal Production	3
AEng30	Irrigation, Drainage and Meteorology	3
AEng50	Farm Machinery and Equipment	3

C. Major Courses, Seminar and Thesis (43 Units)

1. Major Courses (core and elective courses) 36*

2. Undergraduate Seminar 1

3. Undergraduate Thesis 6

Total Units 163*

* 42 units major (core and elective) courses and total units of 169 for the Field Practice Option.