

APPROVED  
MINUTES OF THE 35TH (REGULAR) VISCA BOARD OF TRUSTEES  
MEETING HELD ON JULY 14, 1980, AT THE  
VISAYAS STATE COLLEGE OF AGRICULTURE  
Baybay, Leyte

Present:

Page

APPROVED MINUTES OF THE 35TH (REGULAR) VISCA BOARD OF  
TRUSTEES MEETING HELD ON JULY 14, 1980, AT THE  
OMEC CONFERENCE ROOM, MEC, METRO MANILA

7. RESOLUTION NO. 28, s. 1980

Revising DECISIONS/AGREEMENTS MADE BY THE BOARD OF TRUSTEES  
studies abroad by adding the following statement in Chairman  
paragraph 3.....

Item

Page

8. RESOLUTION NO. 29, s. 1980

1. RESOLUTION NO. 22, s. 1980

Revising the scholarship/fellowship/assistantship agreement  
Approving the revised general policies, rules and regulations  
of the VISCA Graduate Program, to state that amendments

9. RESOLUTION NO. 23, s. 1980

2. RESOLUTION NO. 23, s. 1980

Approving in toto the proposed revision in the numbers  
assigned to the undergraduate major courses .....

10. RESOLUTION NO. 31, s. 1980

3. RESOLUTION NO. 24, s. 1980

Approving the recommendation to give monthly honorarium  
Approving the change in name of Crop Protection Department  
to Plant Protection Department .....

14. RESOLUTION NO. 25, s. 1980

Approving the institution of three additional fields to the  
existing masteral degree program, namely: (1) Master of  
Science in Plant Protection, (2) Master of Science in  
Entomology, and (3) Master of Science in Plant Pathology ..

12. RESOLUTION NO. 33, s. 1980

5. RESOLUTION NO. 26, s. 1980

Approving the change in title of a major program from  
Bachelor of Science in Agriculture (BSA) major in  
Soils to Bachelor of Science in Agriculture (BSA)  
major in Soil Science .....

6. RESOLUTION NO. 27, s. 1980

Approving in toto the revision of the Horticulture and Soils  
major offerings under the Bachelor of Science in Agri-  
culture (BSA) degree program .....

corrected by deleting "and". Likewise, the word

"BOARD" was deleted from all the resolutions/decisions/numbers



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MINUTES OF THE 35TH (REGULAR) VISCA BOARD OF TRUSTEES  
MEETING HELD ON JULY 14, 1980, AT THE OMEC  
CONFERENCE ROOM, METRO MANILA

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Present:

Item		Page
	Hon. Abraham I. Felipe Deputy Minister of Higher Education MEC, Metro Manila	Chairman
7.	RESOLUTION NO. 28, s. 1980 Revising the scholarship/fellowship agreement for graduate studies abroad by adding the following statement in paragraph .....	7
8.	RESOLUTION NO. 29, s. 1980 Revising the scholarship/fellowship/assistantship agreement by adding the following statement in paragraph .....	8
9.	RESOLUTION NO. 30, s. 1980 Approving the recommendation to give a monthly honorarium of ₱417.00 to Mr. Alfredo Arradaza, Jr. as Officer-in-Charge of the Supply-Property Management Division .....	8
10.	RESOLUTION NO. 31, s. 1980 Approving the recommendation to give monthly honorarium of ₱200.00 to the VISCA ROTC Commandant to be taken from the lump sum for honorarium .....	9
11.	RESOLUTION NO. 32, s. 1980 Approving the recommendation to give the academic rank of Professor of Plant Breeding and Genetics to Dr. Fernando A. Bernardo, VISCA College President, .....	10
12.	RESOLUTION NO. 33, s. 1980 at 12:45 p.m. Approving the recommendation to give two-salary step increases to the salaries of the following academic and non-academic personnel who are recipients of meritorious service awards, .....	10
	May 19, 1980, were approved after the following corrections were made:  The introductory phrases to all the Board resolutions which read: "On motion made and duly seconded," were corrected by deleting "made and". Likewise, the word "BOARD" was deleted from all the resolution titles/numbers	



APPROVED  
MINUTES OF THE 35TH (REGULAR) VISCA BOARD OF TRUSTEES  
MEETING HELD ON JULY 14, 1980, AT THE OMEC  
CONFERENCE ROOM, MEC, METRO MANILA

Present:

Hon. Abraham I. Felipe  
Deputy Minister of Higher  
Education  
MEC, Metro Manila

Chairman

Hon. F. A. Bernardo  
President  
VISCA, Baybay, Leyte

Vice Chairman

Mr. Remegio Mercado (Represented Dr. Jose M. Lawas)  
Stock Economist  
NEDA, CB  
Metro Manila

Dr. Vedasto G. Suarez  
Assistant Secretary and  
MEC Officer for State  
Colleges and Universities  
MEC, Metro Manila

SCU-MEC Representative

Mr. John Imlan  
PASUC Coordination Office  
Metro Manila

PASUC Representative

Prof. Andres F. Duatin  
College Secretary  
VISCA, Baybay, Leyte

Secretary

Dr. Abraham I. Felipe, the Chairman, called the  
meeting to order at 12:45 p.m.

I. Approval of the Minutes of the Previous Meeting:

The minutes of the previous meeting held last  
May 19, 1980, were approved after the following corrections  
were made:

The introductory phrases to all the Board resolu-  
tions which read: "On motion made and duly seconded," were  
corrected by deleting "made and". Likewise, the word  
"BOARD" was deleted from all the resolution titles/numbers



1 which read "BOARD RESOLUTION NO. (from 11-21), s. 1980."

2 Page 2, line 25 and page 3, lines 14 & 19--the term  
3 "justiceable" was corrected to read: "justiciable".

4 Page 3, line 9--"to" was changed to "of"; line  
5 13--the phrase "it is necessary that" was inserted between  
6 "President," and "authority"; "is hereby" was replaced with  
7 "bc"; line 17--"adopt a resolution" was deleted; and line  
8 18--"granting" was made "grant".

9 Page 4, line 6--"lamented" was changed to "regretted";  
10 lines 12-13--"only" and "of the Board Meetings in the region"  
11 were deleted.

12 Pages 5, 6, & 7--The phrase, "this takes effect"  
13 was changed to "effective", making the concluding paragraph  
14 part of the preceding paragraph.

15 Page 7, line 24--"Curriculum" was added after  
16 "Economics"; lines 28-31--the first letters of the following  
17 words were changed to their respective lower case: "Revision",  
18 "Institution", "Addition", and Deletion", to read: "revision",  
19 "institution", "addition", and "deletion".

20 Page 8, line 6--"Curriculum" was added to "Economics  
21 (BSHE)"; line 17--the "s" from "references" was deleted; and  
22 line 19--"was" was deleted.

23 Page 9, lines 10 & 16--the "s" from "appointments"  
24 was deleted.

25 Page 10, line 11--the article "a" was inserted  
26 between "given" and "monthly".



1 II. Matters Arising from the Approved Minutes:

2 None.

3 III. Report of the College President:

4 Dr. F. A. Bernardo, the College President, expounded  
5 his report to the Board and answered and/or explained in-  
6 quiries made. The headings of his written report follow:  
7 (Appendix A<sub>1</sub>)

8 1. Enrolment in VISCA slightly decreased.

9 2. High yielding root crop varieties recommended  
10 by PROCRTC.

11 3. PCRDD released funds for a community-based  
12 coconut research project.

13 4. "Technopack" project for Leyte and Samar initiated  
14 with PCARR, LSBDA and SIRDP support.

15 5. International cassava production workshop held  
16 in VISCA.

17 6. Building construction at VISCA under EDPITAF  
18 slows down.

19 7. VISCA's 1979 annual report off the press.

20 8. VISCA to celebrate 56th anniversary in August

21 IV. Policy Matters:

22 A. Review of the 1980 Development Plan/Policies

23 The 49-page 1980 annual development plan of the  
24 Visayas State College of Agriculture was presented to the Board  
25 for the second time, for review. The development plan included  
26 the objectives and plans in instruction, research, and exten-  
27 sion; curricular proposals; enrolment projection; staff deve-



1 lopment plan; physical facilities development; and equipment  
2 procurement (Appendix A<sub>2</sub>).  
3

Board Action: Noted

4 B. General Policies on Graduate Studies

5 The revised general policies, rules and regulations  
6 of the VISCA Graduate Program, were presented to apprise the  
7 Board of some amendments and/or corrections particularly on  
8 policies for the proposed doctoral degree level (Appendix B).  
9

10 On motion duly seconded, the Board passed:

11 RESOLUTION NO. 22, s. 1980

12 Approving the revised general policies,  
13 rules and regulations of the VISCA Graduate Program,  
14 to state that amendments thereto may be made only  
15 upon approval by a majority of the Academic Council  
16 or by two-third of the Graduate Faculty when so  
constituted (Appendix B).

17 Approved

18 V. Academic Matters:

19 A. General Revision in the Numbers Assigned to Undergraduate  
20 Major Courses

21 The complete numbering scheme for courses offered in  
22 VISCA, as revised (Appendix C), was presented.

23 On motion duly seconded, the Board passed:

24 RESOLUTION NO. 23, s. 1980

25 Approving in toto the proposed revision in  
26 the numbers assigned to the undergraduate major  
27 courses (Appendix C).  
28

Approved



1       B. Change in Name from Crop Protection to Plant Protection

2           A proposal was presented recommending the change in  
3       name from Crop Protection to Plant Protection (Appendix D<sub>1</sub>).

4           On motion duly seconded, the Board passed:

5                       RESOLUTION NO. 24, s. 1980

6                       Approving the change in name of Crop  
7       Protection Department to Plant Protection  
8       Department (Appendix D<sub>1</sub>).

9                                       Approved

10       C. Institution of Three Major Fields of the Existing Masteral  
11           Degree Program

12           A proposal was presented recommending the institution  
13       of three additional fields to the existing masters degree  
14       program, namely; (1) Master of Science in Plant Protection,  
15       (2) Master of Science in Entomology, and (3) Master of Science  
16       in Plant Pathology (Appendix D<sub>2</sub>).

17           On motion duly seconded, the Board passed:

18                       RESOLUTION NO. 25, s. 1980

19                       Approving the institution of three additional  
20       fields to the existing masteral degree program,  
21       namely; (1) Master of Science in Plant Protection,  
22       (2) Master of Science in Entomology, and (3) Master  
23       of Science in Plant Pathology (Appendix D<sub>2</sub>), the  
24       offering of the corresponding subjects/courses of  
25       which to start not earlier than the Second Semester,  
26       SY 1980-81, subject to availability of laboratory  
27       equipment, classrooms, and faculty.

28                                       Approved

29       D. Change in Title of a Major Program from BSA Major in  
30           Soils to BSA Major in Soil Science

31           On motion duly seconded the Board passed:



## 1 RESOLUTION NO. 26, s. 1980

2 Approving the change in title of a major  
3 program from Bachelor of Science in Agriculture  
4 (BSA) major in Soils to Bachelor of Science in  
5 Agriculture (BSA) major in Soil Science (Appendix E<sub>1</sub>).

6 Approved

7 E. Revision of Horticulture and Soils Major Offerings

8 Under the BSA Degree Program

9 A proposal was presented recommending the revision  
10 of the horticulture and soil science major offerings under  
11 the BSA degree program (Appendix E<sub>2</sub>).

12 On motion duly seconded, the Board passed:

13 RESOLUTION NO. 27, s. 1980

14 Approving in toto the revision of the  
15 Horticulture and Soils major offerings under the  
16 Bachelor of Science in Agriculture (BSA) degree  
17 program (Appendix E<sub>2</sub>).

18 Approved

19 VI. Administrative Matters:

20 A. Presentation/Approval of Action, Projects and/or

21 Activities as Per Approved Operating School Budget

22 The action programs, projects and activities for the  
23 current year presented include (1) Barangay based Rural Develop-  
24 ment Program for Small Coconut Farmers in Leyte, (2) Mixed  
25 Farming of Tilapia nilotica and colocasia esculenta, (3) Duck  
26 Production Project, (4) Macrame and Garment Making Project  
27 for Rural Women, (5) Out-of-School Youth Rice Thresher Projects,  
28 (8) Social Lab Barangay Industry Development laboratory and



Barangay Resource Mobilization, (9) Conduct of Non-Formal Education, (10) Extension Information Program, and (11) Goat and Swine Dispersal Program (Appendix F).

Board Action: Noted

B. Revised Scholarship Agreements/Stipulations:

1. Scholarship Agreement for Studies Abroad

The VISCA revised scholarship agreement for studies abroad presented includes the following statements as additional provisions under paragraph 2.1: "It shall be fully understood that proportionate refund shall in NO CASE be allowed. Service to be rendered in other offices or agencies of the Republic of the Philippines after the grant shall not be considered as service to VISCA."

On motion duly seconded, the Board passed:

RESOLUTION NO. 28, s. 1980

Revising the scholarship/fellowship agreement for graduate studies abroad by adding the following statement in paragraph 2. 1., viz: "It should be fully understood that proportionate refund shall in NO CASE be allowed." (Appendix G).

The last sentence on the same paragraph should be deleted, to wit:

"Services to be rendered in other offices or agencies of the Republic of the Philippines after the grant shall not be considered as service to VISCA."

Approved

2. Scholarship/Fellowship/Assistantship Agreement

The VISCA revised faculty scholarship/fellowship/



1 assistantship agreement includes the fellowship provisions:

2 "It shall be fully understood that proportionate refund shall  
3 in NO CASE be allowed. Service to be rendered in other offices  
4 or agencies of the Republic of the Philippines after the grant  
5 shall not be considered as service to ViSCA."

6 On motion duly seconded, the Board passed:

7 RESOLUTION NO. 29, s. 1980

8 Revising the scholarship/fellowship/  
9 assistantship agreement by adding the following  
10 statement in paragraph 2. h., viz: "It shall  
11 be fully understood that proportionate refund  
12 shall in NO CASE be allowed." (Appendix H).

13 The last sentence on the same paragraph  
14 should be deleted, to wit:

15 "Services to be rendered in other offices  
16 or agencies of the Republic of the Philippines  
17 after the grant shall not be considered as service  
18 to ViSCA."

19 Approved

20 VII. Other Matters:

21 A. Honorarium for the Officer-in-Charge of the Supply/  
22 Property Management Division

23 An honorarium of ₱417.00 per month was recommended  
24 for Mr. Alfredo Arradaza, Jr., Officer-in-Charge of the ViSCA  
25 Supply/Property Management Division to take effect May 1, 1980.

26 On motion duly seconded, the Board passed:

27 RESOLUTION NO. 30, s. 1980

28 Approving the recommendation to give a  
29 monthly honorarium of ₱417.00 to Mr. Alfredo  
30 Arradaza, Jr. as Officer-in-Charge of the Supply-  
31 Property Management Division, effective May 1, 1980



1 to terminate immediately upon the appointment of  
2 the person who shall fill the said position, the  
3 amount of which shall be taken from the lump sum  
4 for honorarium or from other sources in the ViSCA  
5 budget, subject to COA rules and regulations.

6 Approved

7 B. Honorarium for the ViSCA ROTC Commandant

8 A monthly honorarium of ₱200.00 was recommended  
9 for the ViSCA ROTC Commandant to take effect January 1, 1980.

10 On motion duly seconded, the Board passed:

11 RESOLUTION NO. 31, s. 1980

12 Approving the recommendation to give  
13 monthly honorarium of ₱200.00 to the ViSCA ROTC  
14 Commandant to be taken from the lump sum for  
15 honorarium or from other sources in the ViSCA  
16 budget, effective January 1, 1980, subject to  
17 COA rules and regulations.

18 Approved

19 C. Quarterly Agenda for Board Meetings

20 Pres. Bernardo called the attention of the Board on  
21 the quarterly agenda for Board meetings, particularly the  
22 item on action programs, projects and/or activities, to wit:  
23 "Presentation/approval of action programs, projects and/or  
24 activities as per approved operating school budget for the  
25 incoming school year." (Appendix I). Dr. Bernardo reminded  
26 the Board that, normally school budgets for the incoming  
27 year are approved at the later part of October or early  
28 November of the current year. On this premise, the College  
29 President argued that this particular item can not be



1 presented as scheduled.

2 On this score, Dr. Felipe requested Dr. Suarez to  
3 take note of Dr. Bernardo's observations on the agenda for  
4 Board meetings.

5 Board Action: Noted

6 D. Academic Rank of Full Professor for the ViSCA

7 College President

8 In ViSCA, only the College President has no academic  
9 rank. He was full professor in U.P. before his appointment  
10 to ViSCA, but when his appointment as president was made,  
11 he lost his academic rank. So, it was recommended that  
12 Dr. F. A. Bernardo, the college president, be given an  
13 academic rank.

14 On motion duly seconded, the Board passed:

15 RESOLUTION NO. 32, s. 1980

16 Approving the recommendation to give the  
17 academic rank of Professor of Plant Breeding and  
18 Genetics to Dr. Fernando A. Bernardo, ViSCA College  
19 President, effective immediately.

20 Approved

21 E. Recommendation for Merit Increases

22 Some nine (9) meritorious academic and non-academic  
23 personnel were recommended for salary increases (Appendix J):

24 On motion duly seconded, the Board passed:

25 RESOLUTION NO. 33, s. 1980

26 Approving the recommendation to give two-  
27 salary step increases to the salaries of the fol-




lowing academic and non-academic personnel who are recipients of meritorious service awards, pursuant to Budget Circular No. 286, following the ViSCA established criteria for meritorious award, effective July 1, 1980, subject to approval of the Budget Ministry, to wit:

1. Prof. Camilo D. Villanueva, Assistant Professor;
2. Prof. Linda K. Miranda, Chief Librarian
3. Mr. Ramon S. Laguna, Instructor
4. Mr. Enrique M. Gaviola, Supervising Mechanic;
5. Mr. Pablito T. Galenzoga, Driver
6. Mr. Dioscoro M. Lepasanda, Driver
7. Mr. Francisco U. Singson, Plumber
8. Ms. Marcelina C. Amihan, Clerk
9. Mr. Petronilo B. Nunez, Utilityman

Approved

There being no other matter for discussion,  
Dr. Felipe, the Chairman adjourned the Board meeting at  
2:06 p.m.

Certified True and Correct:

  
ANDRES F. DUATIN  
Secretary

Attested:

(SGD.) DR. ABRAHAM I. FELIPE  
Chairman

Approved as Corrected  
September 30, 1980



2. High yielding root crop varieties recommended by PCRTU.

REPORT OF THE PRESIDENT

July 14, 1980

The following varieties of sweet potato, gabi, and yam are recommended by the PCRTU:

1. Enrolment in VISCA slightly decreased

There is a slight decrease in student enrolment in VISCA for the first semester of 1980 compared to the first semester

enrolment last year. The decrease is due mainly to the all-

time low price of copra. Comparative enrolment figures are

shown below:

		1st Sem. 1979	1st Sem. 1980	Difference
BSA	FR-4 62	469	456	7.9 - 13
BSADE	FR-S 10	231	217	7.2 - 14
BSHE		51	44	7.2 - 7
BSAE	FR-0068	265	253	- 8
BSAB	FR-A 35	141	149	+ 8
BAS	FR-A 5	80	122	+ 42
BSF	FR-A 7	26	35	+ 9
Sub-total	FR-A 10	1263	1276	+ 13
FRG	FR-A 11	65	40	- 25
HET		55	34	- 21
OPIC		11	(Phased out)	- 11
Sub-total		131	74	- 57
Special		4		- 4
MSADE		13	15	+ 2
Sub-total		17	15	- 2
High School		515	474	- 41
Grand Total		1926	1839	- 85



2. High yielding root crop varieties recommended by PRCRTC.

The following varieties of cassava, sweet potato, gabi, and yams are recommended by the PRCRTC:

Root Crop	Variety/ Selection No.	Months to Harvest	Yield (ton/ha)			
			FW	DW	Starch	Alcohol l/ha
Cassava	FR-C 13	10-12	42	14.4	4.9	7560
	FR-C 24	8-10	43	16.9	8.4	7740
	FR-C 62	10-12	46	15.2	7.9	8280
Sweet Potato	FR-S 10	4	35	11.95	7.35	4375
Root Yield (tons/ha)						
Gabi (Taro)	FR-G068	7		30		
Yams	FR-A 35	7-8		27		
	FR-A 5	8-9		68		
	FR-A 7	8-9		58		
	FR-A 10	7-8		52		
	FR-A 11	7-8		48		

3. PCRDF released funds for a community-based coconut research project.

The Philippine Coconut Research and Development Foundation (PCRDF) approved VisCA's proposal to undertake a community-based coconut research project and released some ₱80,000 to start the project. This project shall test packages of coconut production and processing technologies in a selected community.



Visayas State College of Agriculture  
Office of the Director of Graduate Studies

## GENERAL POLICIES

## Admission Requirements

- 1.1. The minimum requirements for admission to graduate studies leading to masteral and doctoral degrees\* are a Bachelor's degree and a Master's degree, respectively, or their equivalents, from a recognized institution.
- 1.2. Subject to the approval by the Director of Graduate Studies, the department(s) Graduate Admission Committee determines the acceptability of an applicant after submission of the following:
- a) completed application forms for admission
  - b) official scholastic records showing a grade point average (GPA) of at least 2.5 in the Bachelor's degree for M.S./M.A. or 1.75 in the Master's degree for Ph.D. or their equivalents; applicants with lower grades may be conditionally admitted and will become regular students only upon passing the proficiency examination given by the department.
  - c) two letters of recommendation from former professors or supervisors.
  - d) a certification of English proficiency or an acceptable score on Testing of English as Foreign Language (TOEFL) if required for foreign students. Information regarding the TOEFL may be obtained by writing to TOEFL, Educational Testing Center, Princeton, New Jersey 08450, U.S.A.

## Registration

All students intending to work for an M.S./M.A. or Ph.D. degree

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\*Underlined words or phrases are provisions added to what was approved together with the MSADE and MADE programs.



may register with the Secretary of the College upon presentation of a letter of admission from the Director of Graduate Studies.

3. Graduate Fees\*

The school fees per semester or summer are as follows:

a. Deposit	₱30.00
b. Admission Fee (new students only)	25.00
c. Tuition Fees, per unit	30.00
d. Library Fee	40.00
e. Medical-Dental Fee	10.00
f. Laboratory Fee, per lab. subject	40.00
g. Identification Card	6.00
h. Graduation Exercises Fee	50.00
i. Diploma Fee	50.00
j. Publication & Miscellaneous Fees	20.00

Subject to the rules and regulations of the Graduate Program, a regular staff member of the College may apply for reduced enrollment fee privilege for a maximum of six units a semester. If granted, he pays only one third or 33.3% of the tuition fees.

Graduates of the Visayas State College of Agriculture and member-institutions of the Association of Colleges of Agriculture of the Philippines, Inc. (ACAP) and the Philippine Association of State Universities and Colleges (PASUC) who finished their Bachelor's degree with honors, as certified by their respective heads of institutions, may be exempted from payment of tuition fees during their first registration. Any graduate student who maintains a GPA of 1.25 or better, with a study load of not less than nine units, per semester or 6 units per summer, is exempted from paying tuition fees during the succeeding term he registers.

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\*Subject to change upon approval by the Board of Trustees.



#### 4. Change of Matriculation

No change of matriculation involving the taking of a new subject shall be allowed after 12% of regular class meetings have been held. Changes in matriculation shall be effected by:

4.1. accomplishing the form for change of matriculation which must be recommended by the advisor and approved by the Director of Graduate Studies.

4.2. submitting the form to the College Secretary for assessment and notation.

#### 5. Graduate Advisory Committee

The graduate student selects his major professor who shall serve as thesis advisor and chairman of his Graduate Advisory Committee. In some cases, a thesis co-advisor may be selected who automatically becomes a member of the Graduate Advisory Committee. Within two months after registration, the student and his major professor shall choose other members of his Graduate Advisory Committee. The Committee shall be composed of three to five members. At least one member shall represent the minor field. Membership in the Advisory Committee shall be limited to members of the Graduate Faculty.

The head of the department endorses to the Director of Graduate Studies the composition of the student's Graduate Advisory Committee. Changes in the composition must be approved by the Director of Graduate Studies upon recommendation of the major professor in consultation with the graduate student.

#### 6. Courses

Before the end of the first semester, the student and his



major professor shall have drafted a detailed list of courses the student to be taken has /for approval by his Graduate Advisory Committee and for submission to the Office of the Director of Graduate Studies. Courses taken for an earned degree cannot be credited again for another degree.

For M.S./M.A. degree, a minimum of 24 units of formal courses is required with at least 18 units on the 200 level. At least 15 units of the course work shall be in the major field and 9 units in the minor field. For Ph.D. degree, a minimum of 24 units of formal courses beyond the Master's degree is required. At least 12 units of course work shall be in the major field and 12 units in the minor fields.

#### Transfer Credits

A student who is already enrolled may apply for advanced or transfer credits for work done in another institution upon:

- 7.1. presentation of credentials from another institution showing that the courses passed are equivalent to those offered in ViSCA for which credit is being sought.
- 7.2. passing the validating test for courses taken outside ViSCA given by the department offering the equivalent courses, if necessary, provided such courses were taken within the last three years prior to admission.

Not more than six units of advanced or transfer credits may be granted a student for course work done towards the master's and Ph.D. degrees in another institution unless taken with prior approval of a duly constituted Graduate Advisory Committee and the Director of Graduate Studies. In no shall case the total number of credits transferred exceed one-half of the total number required for the program.

Application for advanced credits shall be filed with the Director of Graduate Studies during the first semester of residence.



## 8. Thesis/Dissertation

A student shall start thesis work after earning at least 12 units of graduate credits and upon approval by his Graduate Advisory Committee. Before doing actual research, a thesis outline which must be approved by the Graduate Advisory Committee, shall be submitted to the Office of the Director of Graduate Studies.

Copies of the draft of the thesis manuscript, when completed in all respects and editorially acceptable to the advisor, shall be submitted to the student's Graduate Advisory Committee for criticism, evaluation and suggestions for improvement, after which the student may apply for final oral examination. After a successful examination, the approved thesis manuscript, prepared in at least seven copies following the prescribed format of ViSCA, shall be distributed as follows: one copy each for the major department, student, thesis advisor(s), ViSCA Library, National Library, the Director of Graduate Studies and Director of Research.

Candidates for graduation must submit all copies of the manuscript to the Office of Graduate Studies at least one day before the Graduate Faculty of the College meets to act on candidates for graduation.

## 9. Examinations

### 9.1. Proficiency/Qualifying Examination

A written and/or oral proficiency/qualifying examination must be taken not later than the first semester of enrollment. This examination is optional for M.S. but required for Ph.D. candidates. It is a means of evaluating the potential and capabilities of a student for graduate work and of determining possible areas of deficiencies that may hinder his progress.

### 9.2. Comprehensive Examination

Immediately after completing all courses prescribed by his Graduate Advisory Committee, the student shall submit his application



for a comprehensive examination duly recommended by his Graduate Advisor Committee which in turn tests the student's competence in integrating knowledge. The examination, which shall be based on all prescribed courses taken, shall be in oral form to be supplemented by a written examination if deemed necessary by the Committee.

To pass the comprehensive examination, a student should get a unanimous vote of the Committee members. If he fails, he may be given one re-examination upon unanimous approval of the Committee members. Additional courses may be required to further prepare the student for the re-examination.

### 9.3. Final Oral Examination

The student shall take an oral examination on his masteral thesis or doctoral dissertation given by the Graduate Advisory Committee. To pass the examination, the student must receive not more than one negative vote. A student who fails may apply for a re-examination after one month but not later than six months after the first examination. Failure to pass the re-examination disqualifies the student from earning the degree.

Using the prescribed form, the chairman of the Graduate Advisory Committee shall make a report on the results of the comprehensive and final oral examinations to the Office of the Director of Graduate Studies not later than the first working day following the examination.

### 10. Leave of Absence

If a student has to temporarily discontinue his graduate study, a written request for leave of absence must be submitted for approval by the Director of Graduate Studies. The request must state the reason for the leave and specify the period of the leave which must not exceed one year. Approved leave of absence shall be included in the time limit for finishing



the degree.

11. Scholastic Requirement

The minimum grade point average (GPA) required by the Graduate Program for an advanced degree is 2.0. The GPA is computed at the end of every semester and is shown in a Grade Report to the students. The GPA includes only units with grades of 1.0 through 5.0. It excludes grades of Incomplete (Inc.), Satisfactory (S) or letter marks.

A student must have a weighted average of "2.00" or better for the course work in the major and minor fields prescribed by the <sup>Graduate</sup> Advisory Committee. He must obtain a passing grade of "3.00" in all prescribed courses, both graduate and undergraduate.

If a semestral GPA is lower than 2.0, a warning letter from the Graduate Studies is issued to the student. If the GPA remains below 2.0 upon completion of all courses prescribed in his degree program, he shall be disqualified as a degree candidate.

12. Work in Absentia

With the approval of the Graduate Advisory Committee, thesis work may be done in absentia. A student working in absentia must register his thesis and make periodic progress report to his thesis advisor.

13. Honorable Dismissal

A graduate student in good standing who desires to sever his connection with the College shall present a written request for approval by the Director of Graduate Studies. If the student's request is granted, he shall be given an honorable dismissal.

All indebtedness to the College must be settled before a statement of honorable dismissal will be issued.



14. Residency

A minimum of two semesters and one summer and four semesters of full time residency study is required for the master's and doctorate degrees, respectively. A student who registers for graduate study for course work done on campus or elsewhere as approved by his Graduate Advisory Committee shall be considered in residence.

15. Time Limit

Not more than five school years for the master's degree and seven years for doctorate degree, from the time of admission to graduate study, shall be allowed for the fulfillment of all requirements for the degree being sought.

16. Effectivity and Revision of Policies

These general policies, rules and regulations of the Graduate Program shall take effect upon approval by the Academic Council and confirmation by the VISCA Board of Trustees. Amendments may be made only upon approval by two-thirds of the Graduate Faculty. when constituted.



VISAYAS STATE COLLEGE OF AGRICULTURE  
Baybay, Leyte  
DEPARTMENT OF CROP PROTECTION

APPENDIX C

**General Revision in the Number Assigned to Undergraduate  
Major Courses for all Departments**

PROPOSAL TO CHANGE THE DEPARTMENT NAME TO PLANT PROTECTION  
INSTITUTE A DOCTORAL DEGREE PROGRAM AND THREE MAJOR  
FIELDS OF THE EXISTING MASTERAL DEGREE PROGRAM  
AND REVISE THE UNDERGRADUATE MAJOR PROGRAM  
For the information of the members of the Board, the complete  
numbering scheme for courses in VISCA is hereby presented although  
the revision covers undergraduate major courses only.

**A. Change in Name from Crop Protection to Plant Protection**

A dictionary definition of the word "crop" is that it Number "plant  
or animal or plant or animal product that can be grown extensively  
for profit or subsistence (Webster, 1979) as a rice crop, a crop of  
fish or crop of wool." As defined, it has a very wide coverage and  
yet many people interpret the term "crop" to refer only to harvested  
or cultivated plants, and excludes forest trees, ornamentals and turf.

**A. Undergraduate**

- |  |         |
|--|---------|
| 1. Terminal technician courses   | 001-009 |
| 2. General education courses (required for all students in VISCA regardless of curricula)    | 11-19   |
| 3. Foundation courses (required for all students in a curriculum regardless of major fields) | 20-29   |
| 4. Major courses   | 101-199 |
| 5. Thesis  | 200     |

**B. Graduate**

- Thus, "Crop Protection" largely connotes extension work which seems  
to belong more appropriately to the Ministry of Agriculture rather  
than to a technical department of an academic institution.
- |                          |         |
|--------------------------|---------|
| 1. Formal courses        | 201-299 |
| 2. Masteral thesis       | 300     |
| 3. Doctoral dissertation | 400     |

**Rationale:**

present, the Ministry has the Crop Protection Center under the Bureau  
of Plant Industry with regional stations to provide technical assistance  
to the Department of Agriculture. Experience during the past year has shown that some students coming to VISCA for  
graduate work need to take some undergraduate major subjects to  
strengthen their background preparation for graduate courses. If  
some of these courses cannot be taken for graduate credit, completion of the course requirement for the graduate degree program  
will take quite a long time. Thus, to allow accreditation of  
undergraduate major courses without creating the impression that  
said courses are very much below the graduate courses in depth  
and breadth of subject matter coverage, their elevation to the 100  
level is necessary. In addition, this will convey more clearly  
the fact that undergraduate major courses are more advanced than  
the general education and foundation subjects whose number will  
remain below 100.

at the University of the Philippines, The Netherlands, and the holding of  
the undergraduate thesis course is assigned a number higher  
than those for the formal major courses because in conducting a  
thesis, knowledge gained in all the courses taken, especially  
major subjects, is made use of.



VISAYAS STATE COLLEGE OF AGRICULTURE  
Baybay, Leyte  
DEPARTMENT OF CROP PROTECTION

PROPOSAL TO CHANGE THE DEPARTMENT NAME TO PLANT PROTECTION,  
INSTITUTE A DOCTORAL DEGREE PROGRAM AND THREE MAJOR  
FIELDS OF THE EXISTING MASTERAL DEGREE PROGRAM  
AND REVISE THE UNDERGRADUATE MAJOR PROGRAM

A. Change in Name from Crop Protection to Plant Protection

A dictionary definition of the word "crop" is that it is a "plant or animal or plant or animal product that can be grown extensively for profit or subsistence (Webster, 1979) as a rice crop, a crop of fish or crop of wool." As defined, it has a very wide coverage and yet many people interpret the term "crop" to refer only to harvested or cultivated plants, and excludes forest trees, ornamentals and turf. Thus, "Crop Protection" largely connotes extension work which seems to belong more appropriately to the Ministry of Agriculture rather than to a technical department of an academic institution. At present, the Ministry has the Crop Protection Center under the Bureau of Plant Industry with regional stations. To avoid misinterpretation, change in the name of the department from Crop Protection to Plant Protection is hereby proposed to accurately convey the message that the department is concerned with the protection of plants, in general, from pest damage.

Plant Protection is an established terminology as evidenced by the existence of the International Plant Protection Center at Oregon State University, U.S.A.; the International Plant Protection Center at the University of Wageningen, The Netherlands; and the holding of the International Congress of Plant Protection.



B. Institution of a Doctoral Degree Program and Three Major Fields of the Existing Masteral Degree Program

1. Rationale

The Visayas State College of Agriculture, as the regional college of agriculture in the Visayas, is entrusted to provide leadership in instruction, research and extension in agriculture. When the Department of Crop Protection (now Department of Plant Protection) was established in 1974, its primary objective was to supply the manpower needs of the different ministries, bureaus or research centers of the region which were in acute shortage at that time. Having established the machinery for a continuing supply of agriculture graduates with major in plant protection for these offices, it is now essential to upgrade and provide additional training to those on the job who, in many cases, act as planners or chief implementors of plant protection programs at regionwide scale. Thus, the Department of Plant Protection is proposing to offer majors in Plant Protection, Plant Pathology and Entomology of the existing masteral degree program of the College. A doctoral degree program with majors in Entomology and Plant Pathology is also proposed for implementation a few years later.

The offering of graduate degree programs in these fields will give opportunity to agriculture graduates in the Visayas and Mindanao to undertake graduate studies in ViSCA. At the present time, there are 24 students from Visayas and Mindanao who are taking M.S. in Entomology (11), Plant Pathology (9) and Weed Science (4) at UPLB. Interviews of applicants from the Visayas for scholarships sponsored (PCARR) by the Philippine Council for Agriculture and Resources Research/in the last two years and a recent survey of many prospective graduate students indicated that majority of them will opt to study in ViSCA



rather than in UP at Los Baños because it will be easier for them to visit their work stations and their families. This reason is very important most especially for key staff members of research stations who need to oversee the progress of research activities they are leaving behind while they study. The PCARR has been encouraging ViSCA to offer graduate degree programs in agricultural disciplines for which the College already has the needed staff and physical facilities, to help UPLB in offering graduate education and minimize crowding. Thus, with PCARR's support, ViSCA can be assured of graduate students, many of whom will have the necessary funding for thesis research. At present, UPLB can no longer accommodate all the qualified graduate students desiring to pursue advanced studies.

In a survey conducted during the recent Pest Control Council Meeting held in Cebu, 70% of the 59 respondents expressed desire to go to ViSCA, 79% of those interested would like to take M.S. and 9% Ph.D. degrees in the Department of Plant Protection while the rest did not specify the degree desired. Those who said otherwise gave reasons such as "presently undertaking graduate work at UPLB" and "have graduate admission abroad already." The Department also has adequate faculty (Appendix A and B) for teaching and research in support of the proposed major fields. Staff expertise will be further strengthened with the expected arrival of five faculty members with Ph.D. degree (Appendix C). To enable the department to offer other areas for graduate thesis research, additional staff are slated for doctoral studies (Appendix D).

With the expected arrival of the equipment purchased through



the World Bank and the National Science Development Board, there is no need to buy additional equipment to implement the graduate program and the major fields proposed.

The offering of Plant Protection as a major field is unique and the first of its kind in the Philippines. This major field is envisioned because of the service area handled by ViSCA. In many cases, an agency in the Visayas is limited to a few personnel such that one who has specialized in Entomology is also required to handle Plant Pathology or Weed Science research and vice versa. However, for people in the academe, research centers or other agencies who would like to specialize and prepare themselves for doctoral studies, Plant Pathology and Entomology are being offered as major fields. Thus, the Department of Plant Protection is offering options for both the generalists and the specialists.

2. Timetable for the Offering of Graduate Degree Programs

Degree	Field	Date Offered
MS	Plant Protection	(
	Entomology	(
	Plant Pathology	(
PhD	Entomology	1983
	Plant Pathology	1984



It is deemed necessary to propose the doctoral degree program together with the masteral degree program although the former will be implemented at a much later date to have a complete overview of the department's course offerings. When the courses were being lined up for the masteral program, varying degrees of overlap with the existing undergraduate courses became inevitable which necessitated revision of all undergraduate major courses except one, as hereby proposed. It can be anticipated, therefore, that if only the courses for the masteral program will be considered this time, said courses will need revision **also** when additional courses will be proposed for the doctoral program. Thus to avoid going through the same process later, the two graduate programs are being proposed simultaneously. Although the doctoral program is being proposed at this time, the Department of Plant Protection will assess its staff strength and facilities again later and then request for its implementation as soon as the department is ready to offer the program.



GRADUATE COURSES FOR INSTRUCTION

A. Plant Protection Courses:

- \*Pl. Prot. 211 - INTEGRATED PEST MANAGEMENT I  
Integrated approaches in pest management;  
successful programs in pest control.  
Prerequisite: Pl. Prot. 22 (Pest Control) or  
Equivalent  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Pl. Prot. 212 - INTEGRATED PEST MANAGEMENT II  
Recent advances and trends in pest management.  
Prerequisite: Pl. Prot. 211 (Integ. Pest  
Management I)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- \*Pl. Prot. 213 - PLANT RESISTANCE TO PESTS  
Varietal evaluation and mechanisms of resistance  
to pests; plant resistance programs developed  
for specific crops and pests.  
Prerequisite: Pl. Prot. 22 (Pest Control) and  
Bot. 21 (Prin. of Genetics) or  
Equivalent Courses  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Pl. Prot. 214 - BIOLOGICAL TRANSMISSION OF PLANT PATHOGENS  
Fundamental processes involved in biological  
transmission of plant pathogens by insects and  
other organisms.  
Prerequisite: Pl. Path. 161 (Gen. Pl. Pathology)  
and Entom. 131 (Gen. Entomology)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units

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\*Core course - required for all students in the three major fields.



- Pl. Prot. 215 - ENVIRONMENTAL PLANT PROTECTION  
Effects of pollutants, extreme meteorological and  
edaphic factors on organisms and their possible control.  
Prerequisite: Pl. Prot. 112 (Ecology of Pests)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Pl. Prot. 290 - SPECIAL TOPICS/RESEARCH PROBLEM  
Credit: 1-3 units
- Pl. Prot. 299 - GRADUATE SEMINAR  
Credit: 1 unit
- Pl. Prot. 300 - MASTERAL THESIS  
Credit: 6 units

B. Entomology Courses:

- Entom. 231 - INSECT ECOLOGY  
Interaction between insects and environmental  
factors in different ecosystems; quantitative  
analysis of these factors.  
Prerequisite: Entom. 131 (Gen. Entomology)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Entom. 232 - INSECT TAXONOMY  
Classification of insects with emphasis on  
economically important groups; latest methods and  
tools in taxonomy.  
Prerequisite: Entom. 136 (Systematics)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Entom. 233 - INSECT MORPHOLOGY  
Internal and external structures of insects  
including their variations and specializations;  
morphogenesis.  
Prerequisite: Entom. 131 (Gen. Entomology)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units



- Entom. 234 - INSECT PATHOLOGY  
Diseases of insects, their pathology, epi-zoortiology and use for biological control.  
Prerequisite: Pl. Path. 161 (Gen. Pl. Pathology) and Entom. 131 (Gen. Entomology)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Entom. 235 - INSECT TOXICOLOGY  
Metabolism, mode of action, toxicity, antidotes and selectivity of pesticides and their behavior in animals, plants and soils; development of insect resistance.  
Prerequisite: Pl. Prot. 113 (Introduction to Pesticides)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Entom. 236 - STORED PRODUCTS ENTOMOLOGY  
Identification, bionomics and control of insects associated with stored products.  
Prerequisite: Entom. 131 (Gen. Entomology)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Entom. 237 - ACAROLOGY  
Classification, bionomics and control of major groups of mites and other arachnids.  
Prerequisite: Entom. 131 (Gen. Entomology)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Entom. 238 - MEDICAL AND VETERINARY ENTOMOLOGY  
Identification, bionomics and control of major arthropods affecting man and domestic animals.  
Prerequisite: Entom. 131 (Gen. Entomology)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units



- Entom. 241 - INSECT BEHAVIOR  
Communication, tropism, feeding, defense, mating, oviposition and social behavior of insects.  
Prerequisite: Entom. 131 (Gen. Entomology)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Entom. 239 - ADVANCED INSECT PHYSIOLOGY  
Recent advances and trends in insect physiology research.  
Prerequisite: Entom. 139 (Insect Physiology)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Entom. 242 - IMMATURE INSECTS  
Classification of immature insects with emphasis on the holometabolous group.  
Prerequisite: Entom. 232 (Insect Taxonomy)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Entom. 243 - AQUATIC ENTOMOLOGY  
Classification and bionomics of aquatic insects and other arthropods.  
Prerequisite: Entom. 232 (Insect Taxonomy)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Entom. 290 - SPECIAL TOPICS/RESEARCH PROBLEM  
Credit: 1-3 units
- Entom. 299 - GRADUATE SEMINAR  
Credit: 1 unit
- Entom. 300 - MASTERAL THESIS  
Credit: 6 units
- Entom. 400 - DOCTORAL DISSERTATION  
Credit: 12 units



0. Plant Pathology Courses:

Pl. Path. 261 - EPIDEMIOLOGY

Forecasting and surveillance of plant pathogens, with emphasis on air-borne fungi.

Prerequisite: Pl. Path. 161 (Gen. Pl. Pathology)  
5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Pl. Path. 262 - PLANT PATHOGENIC BACTERIA

Nature, dissemination and methods of control of bacterial diseases.

Prerequisite: Pl. Path. 161 (Gen. Pl. Pathology)  
5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Pl. Path. 263 - PLANT PATHOGENIC FUNGI

Identification, symptoms of infection and control of plant pathogenic fungi.

Prerequisite: Pl. Path. 163 (Introductory Mycology)  
5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Pl. Path. 264 - PLANT PARASITIC NEMATODES

Host-parasite relations; interrelationships with other plant pathogens; methods of control.

Prerequisite: Pl. Path. 164 (Introductory Nematology)  
5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Pl. Path. 265 - POST-HARVEST PATHOLOGY

Identification and control of diseases of agricultural products in transit and storage.

Prerequisite: Pl. Path. 163 (Introductory Mycology)  
5 hours a week (2 lec., 3 lab.)



Pl. Path. 266 - MACROSCOPIC FUNGI

Classification and culture of fungi for food, drugs and aesthetics.

Prerequisite: Pl. Path. 163 (Introductory Mycology)  
5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Pl. Path. 267 - SOIL-BORNE PLANT PATHOGENS AND MYCORRHIZA

Biology, ecology and control of fungi and bacterial pathogens in the soil; root-associated beneficial fungi.

Prerequisite: Pl. Path. 163 (Introductory Mycology)  
5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Pl. Path. 268 - ADVANCED PLANT VIROLOGY

Recent advances and trends in virus research.

Prerequisite: Pl. Path. 168 (Introductory Pl. Virology)  
and Chem. 41 (Gen. Biochem. Laboratory)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Pl. Path. 269 - ANATOMY OF DISEASED PLANTS

Structural manifestations and modifications of plant tissues due to disease infection.

Prerequisite: Pl. Path. 162 (Phytopath. Techniques)  
5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Pl. Path. 271 - PHYSIOLOGICAL PLANT PATHOLOGY

Growth, development and reproduction of plant pathogens; host-pathogen interaction.

Prerequisite: Chem. 21 (Gen. Biochemistry) and  
Pl. Path. 161 (Gen. Pl. Pathology)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units



- Pl. Path. 272 - MICROBIAL GENETICS  
Genetics of bacteria, fungi and viruses.  
Prerequisite: Micro. 21 (Gen. Microbiology) and  
Bot. 21 (Prin. of Genetics)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Pl. Path. 290 - SPECIAL TOPICS/RESEARCH PROBLEM  
Credit: 1-3 units
- Pl. Path. 299 - GRADUATE SEMINAR  
Credit: 1 unit
- Pl. Path. 300 - MASTERAL THESIS  
Credit: 6 units
- Pl. Path. 400 - DOCTORAL DISSERTATION  
Credit: 12 units

II. Other Courses:

1. For Institution:

- Econ. Zool. 201 - BIOLOGY AND CONTROL OF VERTEBRATE PESTS  
Identification, bionomics and control of  
destructive mammals (especially rodents), birds  
and other vertebrate pests.  
Prerequisite: Zoology 11 (Gen. Zoology)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
- Micro. 201 - INDUSTRIAL MICROBIOLOGY  
Culture, maintenance and multiplication of bacteria,  
yeasts and molds used in industry; vaccines.  
Prerequisite: Micro. 21 (Gen. Microbiology)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 unit



2. For Revision: (Change in Course Title, Number and Description)

From: Crop Prot. 230 - WEEDS AND THEIR CONTROL

Identification, life history and characteristic habits of important weed species; methods of control.

Prerequisite: Crop Prot. 21 and 22 or Equivalent Courses

5 hours a week (2 lec., 3 lab.)

To Read: Wd. Sci. 201 - BIOLOGY AND CONTROL OF WEEDS

Identification, bionomics and control of <sup>economic</sup> weeds associated with crops, turf and ornamentals; recent advances in weed science,

Prerequisite: Weed Sci. 101 (Intro. Weed Science)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

3. Courses Which Were Not Revised: (Service courses for the Masteral degree program of the Department of Agricultural Development Education)

Pl. Prot. 210

- ARTHROPOD AND VERTEBRATE PESTS AND THEIR CONTROL

Bionomics and control of the major insect, mite and vertebrate pests of crops.

Prerequisite: Pl. Prot. 22 (Pest Control) or Equivalent Course

5 hours a week (2 lec., 3 lab.)

Credit: 3 units



Pl. Prot. 220 - PLANT DISEASES AND THEIR CONTROL

Symptoms, signs and causes of major plant diseases; their biology and control.

Prerequisite: Pl. Prot. 22 (Pest Control) or  
Equivalent Course

5 hours a week (2 lec., 3 lab.)

Credit: 3 units



COURSES IN OTHER DEPARTMENTS WHICH CAN BE SELECTED AS  
COGNATE COURSES FOR THE M.S. DEGREE

1. Hort. 37 - POST-HARVEST PHYSIOLOGY OF PERISHABLE CROPS  
Physiology, handling and storage of fruits and vegetables.  
Prerequisite: Chem. 21  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
2. Ag. Chem. 33 - QUANTITATIVE INORGANIC ANALYSIS  
Theories, principles and analytical techniques in inorganic analysis.  
Prerequisite: Chem. 21  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
3. Ag. Chem. 37 - ADVANCED BIOCHEMISTRY  
Recent advances in Biochemistry.  
Prerequisite: Chem. 21 and Ag. Chem. 31  
3 hours a week (lec.)  
Credit: 3 units
4. Ag. Chem. 41 - GENERAL BIOCHEMISTRY LABORATORY  
Isolation and characterization of important biomolecules.  
Prerequisite: Chem. 21  
6 hours a week (lab.)  
Credit: 2 units
5. Ag. Chem. 42 - TECHNICAL ANALYSIS OF SOILS, FERTILIZERS AND PESTICIDES  
Quantitative methods of analysis of soils, fertilizers and pesticides.  
Prerequisite: Chem. 33  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units
6. Economics 45 - FARM MANAGEMENT PRACTICE  
Management of commercial farms.



Prerequisite: Econ. 21

7 hours a week (1 lec., 6 lab.)

Credit: 3 units

7. Ag. Bot. 31 - PRINCIPLES OF PLANT BREEDING

Mode of reproduction in crops; crop improvement through selection, inbreeding and hybridization; production of quality seeds.

Prerequisite: Botany 21

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

8. Ag. Bot. 33 - PLANT MORPHOLOGY AND ANATOMY

Structure of plant tissues and organs; embryogeny; ontogeny and differentiation.

Prerequisite: Botany 21

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

9. Ag. Bot. 34 - PLANT PHYSIOLOGY

Plant functions and processes; uptake, translocation, metabolism, growth, senescence.

Prerequisite: Botany 21

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

10. Ag. Bot. 38 - PLANT ECOLOGY

Climatic and biotic factors influencing plants, adaptation, evaluation; distribution.

Prerequisite: Ag. Bot. 35

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

11. Ag. Bot. 42 - FIELD PLOT TECHNIQUES AND EXPERIMENTAL DESIGNS

Designing and laying out of experimental units, analysis and inference of data involving covariance, multiple regressions.

Prerequisite: Stat. 11

5 hours a week (2 lec., 3 lab.)

Credit: 3 units



12. Ag. Bot. 44 - QUANTITATIVE GENETICS

Principles of genetics applied to quantitative changes in population materials, analysis of variance and covariance.

Prerequisites: Ag. Bot. 21 and Stat. 20

3 hours a week (lec.)

Credit: 3 units

13. An. Sci. 36 - SYSTEM PHYSIOLOGY

Body systems with emphasis on digestion and absorption; intermediary metabolism and energy exchange; body fluids; endocrine systems.

Prerequisites: Chem. 21 and An. Sci. 35

5 hours a week (2 lec., 3 lab.)

Credit: 3 units



UNDERGRADUATE COURSES

A. Revision of Existing Courses:

1. Change in Name from Crop Protection to Plant Protection

The words Crop Protection in the title of courses offered by the Department of Plant Protection will be changed to Plant Protection accordingly upon approval of the proposal to change the name of the department from Crop Protection to Plant Protection.

2. Adoption of New System of Numbering for Major Courses

All the major courses are renumbered to follow the new system of numbering proposed by the ViSCA Curriculum Committee for all undergraduate major courses.

3. Change in Course Title Only

a. From: Pl. Path. 34

- PRINCIPLES OF NEMATODOLOGY

Introduction to nematodes with emphasis on morphology, anatomy, taxonomy and physiology.

Prerequisite: Zool. 11 (Gen. Zoology)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

To read: Pl. Path. 164 -

INTRODUCTORY NEMATODOLOGY

Introduction to nematodes with emphasis on morphology, anatomy, taxonomy and physiology.

Prerequisite: Zool. 11 (Gen. Zoology)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Rationale: The new title "Introductory Nematology" is more appropriate since this is the first course offered in Nematology. A second course on "Plant Parasitic Nematodes" will be taken later which includes a more detailed discussion of host-parasite relationships.



4. Change in Course Description Only

a. From: Pl. Path. 31 - GENERAL PLANT PATHOLOGY  
Characteristics of plant pathogens;  
causes of plant diseases.  
Prerequisite: Crop Prot. 21 and  
Micro. 21  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units

To read: Pl. Path. 161 - GENERAL PLANT PATHOLOGY  
Causes of plant disease, invasion and  
colonization of plants by pathogens,  
pathogenicity and defense mechanisms.  
Prerequisite: Pl. Prot. 21 (Prin. of  
Pl. Protection) and  
Micro. 21 (Gen. Micro-  
biology)  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units

Rationale: The description of Pl. Path. 161 is being changed  
to make the discussions more general in order to cover  
more topics such as epidemiology which is lacking.  
Presently, discussions are mainly on description of  
plant pathogens.

b. From: Crop Prot. 33 - ECOLOGY OF PESTS  
Environmental factors affecting pests,  
their behavior, distribution, population  
trends and persistence.  
Prerequisite: Crop Prot. 32  
5 hours a week (2 lec., 3 lab.)  
Credit: 3 units



To read: Pl. Prot. 112 - ECOLOGY OF PESTS

Principles of ecology; environmental factors affecting pests in agro-ecosystems.

Prerequisite: Pl. Prot. 111 (Biology and Control of Pests)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Rationale: A discussion of the principles of ecology is included since this is the only ecology course taken by undergraduate major students. This will be followed by a discussion of the factors affecting single pests and pest complexes.

c. From: Entom. 35 - ENTOMOLOGICAL TECHNIQUES

Collection and preservation of insects; general rearing methods; principles of micro-technique. Prerequisite: Entom. 31

7 hours a week (1 lec., 6 lab.)

Credit: 3 units

To read: Entom. 132 - ENTOMOLOGICAL TECHNIQUES

Collection and preservation of insects; rearing and sampling methods; microtechniques, photography and making illustrations.

Prerequisite: Entom 131 (Gen. Entomology)

7 hours a week (1 lec., 6 lab.)

credit: 3 units

Rationale: The coverage of Entom. 132 is broader with the addition of other techniques that an entomologist must learn and become familiar with to be prepared for both research and teaching.



d. From: Entom. 32

- INSECT PHYSIOLOGY

Functional mechanisms of structures  
and physiological bases of behavior;  
intermediary metabolism.

Prerequisite: Entom. 31

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

To read: Entom. 139

- INSECT PHYSIOLOGY

Functional mechanisms of organ systems  
and physiological bases of behavior;  
intermediary metabolism.

Prerequisite: Entom. 131 (Gen.  
Entomology)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

e. From: Pl. Path. 42

- INTRODUCTORY PLANT VIROLOGY

Nature of plant viruses, viral  
diseases and their control.

Prerequisite: Pl. Path. 31

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

To read: Pl. Path. 168

- INTRODUCTORY PLANT VIROLOGY

Nature of plant viruses and their  
control.

Prerequisite: Pl. Path. 161 (Gen. Pl.  
Pathology)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

5. Change in Course Title and Description

a. From: Crop Prot. 32

- BIOLOGY OF PESTS

Life history, characteristic habits  
and behavior of insect, mite, weed  
and vertebrate pests and plant  
pathogens.



Prerequisites: Entom. 31 and Pl.  
Path. 31

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

To read: Pl. Prot. 111 - BIOLOGY AND CONTROL OF PESTS  
Life history and control of represen-  
tative species of insects, mites,  
weeds, vertebrates and plant  
pathogens.

Prerequisites: Entom. 131 (Gen.  
Entomology) and  
Pl. Path. 161 (Gen.  
Pl. Pathology)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Rationale: A discussion of the biology of pests will be more  
meaningful if this is followed by specific control  
measures.

Also, since the course  
treats pests in an integrated manner, there is  
limitation as to the amount of material covered so that  
only representative species of pests will be dealt  
with in detail.

b. From: Entom. 38

- SYSTEMATICS AND TAXONOMY

Grouping of animals based on evolu-  
tionary relationships; classification  
and nomenclature with emphasis on  
insects.

Prerequisite: Entom. 31

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

To read: Entom. 136 - SYSTEMATICS

Classification and naming of animals,  
taxonomic procedures; speciation,



phylogeny and evolution.

Prerequisite: Entom. 131 (Gen.  
"Entomology)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Rationale: Systematics is a more encompassing field because it includes taxonomy. The description is being changed to enrich the course by adding new topics.

c. From: Pl. Path. 32 - RESEARCH TECHNIQUES

Basic methods in phytopathological research.

Prerequisite: Pl. Path. 31

7 hours a week (1 lec., 6 lab.)

Credit: 3 units

To read: Pl. Path. 162 - PHYTOPATHOLOGICAL TECHNIQUES

Basic methods in phytopathological research; microtechnique,

photography and Koch's postulate.

Prerequisite: Pl. Path. 161 (Gen. Pl.  
Pathology)

7 hours a week (1 lec., 6 lab.)

Credit: 3 units

Rationale: Changing the title to Phytopathological Technique limits the coverage of the course to those techniques needed by plant pathologists. Also, other techniques needed by major students are included to enrich the course.

d. From: Pl. Path. 35 - GENERAL MYCOLOGY

Life cycle, morphology and biology of fungi.

Prerequisite: Pl. Path. 31

5 hours a week (2 lec., 3 lab.)

Credit: 3 units



To read: Pl. Path. 163 - INTRODUCTORY MYCOLOGY

Structure and reproduction of major groups of fungi, spore dispersal and mating systems.

Prerequisite: Pl. Path. 161 (Gen. Pl. Pathology)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Rationale: The change of title to "Introductory Mycology" is more appropriate since this is the first course in mycology being offered. The course description was also changed to enrich the course content.

e. From: Crop Prot. 34 - TOXICOLOGY OF PESTICIDES

Chemical and physical properties, formulations, biological effects and behavior of pesticides in animals, plants and soils.

Prerequisites: Crop Prot. 22 (Pest Control) and Chem. 21 (Gen. Biochemistry)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

To read: Pl. Prot. 113 - INTRODUCTION TO PESTICIDES

Chemical and physical properties, formulations, biological effects and factors affecting the effectiveness of commonly used pesticides.

Prerequisite: Pl. Prot. 22 (Pest Control) and Chem. 21 (Gen. Biochemistry)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units



**Rationale:** The word toxicology in the title of the course is being changed because this term deals only with toxic pesticides. Also, other aspects of pesticides such as formulations, physical properties, etc. are covered in the course.

Institution of Two Courses:

a. Entom. 133 - INDUSTRIAL ENTOMOLOGY

Bionomics and culture of silkworm, honey bees and lac insects used in industry and commercially produced biological control agents.

Prerequisite: Entom. 131 (Gen. Entomology)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

**Rationale:** Sericulture, apiculture and other areas of applied Entomology are gaining importance. Silk is an important component of jusi cloth while honey has many medicinal and culinary uses. The use of biological control agents against pests is important because pesticides are becoming more expensive and sometimes they have adverse effects on the environment.

b. Weed Sci. 101 - INTRODUCTORY WEED SCIENCE

General classification, distribution, economic importance and control of weed species associated with selected crops.

Prerequisite: Bot. 11 (Gen. Botany)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

**Rationale:** At present, this course is being offered as a major course for agronomy students and is temporarily assigned as C.P. 90 (Special Topics). However, we would like to offer it now as a formal course (Weed Sci. 101). It will be taken by Plant Protection majors specializing in Weed Science and used as a service course for Horticulture and Agronomy major students. This is the first course on this subject offered in the department, hence the title "Introductory Weed Science."



C. Deletion of Three Courses:

1. Pl. Path. 36 - ADVANCED MICROBIOLOGY

Morphological, cultural and physiological characteristics of selected groups of micro-organisms important to agriculture with emphasis on bacterial plant pathogens.

Prerequisite: Micro. 21

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Rationale: Pl. Path. 36 will be deleted because most of the topics covered are discussed in Micro. 201 (Industrial Microbiology), a newly instituted graduate course.

2. Pl. Path. 38 - PHYTONEMATOLOGY

Symptomatology, host range, host-parasite relationships; interrelationships with other plant pathogens and methods of control.

Prerequisites: Crop Prot. 22 and Pl. Path. 34

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Rationale: Pl. Path. 38 is being elevated into a graduate course. Pl. Path. 34 (Introductory Nematology) will be sufficient for undergraduate major students.

3. Entom. 36 - MEDICAL AND VETERINARY ENTOMOLOGY

Bionomics, identification and control of major arthropods affecting man and animals.

Prerequisite: Entom. 31

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Rationale: Entom. 36 is being elevated into a graduate course. This course is being deleted in the undergraduate curriculum to give way for the offering of Entom. 133 (Industrial Entomology) which is an applied course and therefore more relevant for the training



of undergraduate major students who are majoring in Plant Protection.

D. Courses Which Were Not Revised:

Entom. 131 - GENERAL ENTOMOLOGY

Structural adaptations and classification of insects.

Prerequisite: Zool. 11 (Gen. Zoology)

5 hours a week (2 lec., 3 lab.)

Credit: 3 units

Pl. Prot. 98 - RESEARCH PLANNING AND MANUSCRIPT PREPARATION

Principles of scientific writing; selecting a research problem, preparing an outline and writing a manuscript.

Prerequisite: English 12

3 hours a week (3 lec.)

Credit: 3 units



GRADUATE FACULTY

- BATOY, CORAZON B., M.S., Assist. Professor; Biologist (Medical Entomology)
- BERNARDO, EMILIANA N., Ph.D., Professor; Entomologist (Plant Resistance)
- ✓ CARILO, ESTRILDA A., M.S., Instructor; Entomologist (Insect Physiology)
- ✓ CARIÑO, MA. FLERIDA, M.S., Instructor, Entomologist (Toxicology)
- ESGUERRA, NELSON M., Ph.D., Asso. Professor; Entomologist (Pest Management)
- ✓ GALINATO, MARITA I., M.S., Instructor; Botanist (Weed Ecology)
- GAPASIN, DELY P., Ph.D., Asso. Professor; Entomologist (Systematics)
- ✓ GAPASIN, RUBEN M., M.S., Instructor; Plant Pathologist (Nematology)
- LAO, FREDESWINDA O., M.S. Instructor; Plant Pathologist (Applied Mycology)
- LIM, JESUSITO L., M.S., Instructor; Microbiologist (Industrial Microbiology)
- ✓ MILAN, PACIENCIA P., M.S., Assist. Professor; Biologist, Economic Zoologist (Economic Zoology)
- NAPIERE, CONSTANCIO M., M.S., Assist. Professor; Plant Pathologist (Phytobacteriology)
- ✓ ORO, ROSALINDA S., M.S., Assist. Professor; Plant Pathologist (Mycology)
- PALOMAR, MANUEL K., Ph.D., Asso. Professor; Plant Pathologist (Plant Virology)
- PEDRO DE, LORENZA B., M.S., Instructor; Entomologist (Economic Entomology)
- ✓ TALABOC, LINA V., M.S., Assist. Professor; Entomologist (Biological Control)
- ✓ TALATALA, ROLINDA L., M.S., Assist. Professor; Botanist (Weed Physiology)

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✓ On leave

✓ On study leave for Ph.D.

✓ Affiliate faculty member



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Appendix B

LIST OF GRADUATE COURSES AND AVAILABLE PROFESSORS/INSTRUCTORS  
IN THE DEPARTMENT OF PLANT PROTECTION

<u>Course</u>		<u>Instructor</u>	<u>Available to Teach Indicated Courses Start</u>
<u>Title</u>	<u>Description</u>		
Pl. Prot. 211	Integ. Pest Management I	N. M. Esguerra	1980
Pl. Prot. 212	Integ. Pest Management II	N. M. Esguerra	1980
Pl. Prot. 213	Pl. Resistance to Pests	E. N. Bernardo	1980
Pl. Prot. 214	Biol. Transmission of Pl. Pathogens	M. K. Palomar L. V. Talaboc	1980 1981
Pl. Prot. 215	Environ. Pl. Protection	N. M. Esguerra C. M. Napiere	1980 1980
Entom. 231	Insect Ecology	N. M. Esguerra L. B. de Pedro	1980 1980
Entom. 232	Insect Taxonomy	D. P. Gapasin	1980
Entom. 233	Insect Morphology	D. P. Gapasin	1980
Entom. 234	Insect Pathology	L. V. Talaboc N. M. Esguerra	1981 1980
Entom. 235	Insect Toxicology	M. F. A. Cariño E. A. Carilo	1980 1980
Entom. 236	Stored Products Entomology	E. N. Bernardo L. B. de Pedro	1980 1980
Entom. 237	Insect Behavior	E. N. Bernardo N. M. Esguerra	1980 1980
Entom. 238	Advanced Insect Physiology	M. F. Cariño E. A. Carilo	1980 1980
Entom. 239	Acarology		
Entom. 241	Medical & Veterinary Entomology	C. B. Batoy P. P. Milan	1980 1983
Entom. 242	Immature Insects	D. P. Gapasin	1980



Entom. 243	Aquatic Insects	D. P. Gapasin P. P. Milan	1980 1983
Pl. Path. 261	Physiol. Pl. Pathology	F. O. Lao C. M. Napiere R. S. Oro R. M. Gapasin	1980 1980 1981 1983
Pl. Path. 262	Epidemiology	N. Bajet*	1981
Pl. Path. 263	Pl. Pathogenic Bacteria	C. M. Napiere	1980
Pl. Path. 264	Pl. Pathogenic Fungi	F. O. Lao R. S. Oro	1980 1981
Pl. Path. 265	Macroscopic Fungi	F. O. Lao R. S. Oro	1980 1981
Pl. Path. 266	Microbial Genetics	M. K. Palomar N. Bajet* C. M. Napiere	1980 1981 1980
Pl. Path. 267	Anatomy of Diseased Plants	M. K. Palomar F. O. Lao R. S. Oro N. Bajet*	1980 1980 1981 1981
Pl. Path. 268	Advanced Plant Virology	M. K. Palomar N. Bajet*	1980 1981
Pl. Path. 269	Plant Parasitic Nematodes	R. M. Gapasin	1983
Pl. Path. 271	Soil-borne Pl. Pathogens and Mycorrhiza	F. O. Lao C. M. Napiere R. S. Oro	1980 1980 1981
Pl. Path. 272	Post-Harvest Pathology	F. O. Lao C. M. Napiere	1980 1980
Vert. Pests 201	Biology and Control of Vertebrate Pests	P. P. Milan	1983
Micro. 201	Industrial Microbiology	J. L. Lim	1980
Weed Sci. 201	Biology and Control of Weeds	M. I. Galinato R. L. Talatala	1980 1981

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\*Prospective Ph.D. recruit from the University of Illinois who has expressed interest in joining VisCA.



Prot. 210	Arthropod and Vertebrate	N. M. Esguerra	1980
	Pests and Their Control	E. N. Bernardo	1980
		D. P. Gapasin	1980
Prot. 220	Plant Diseases and Their	M. K. Palomar	1980
	Control	C. M. Napiere	1980

COURSE NEEDING ADDITIONAL STAFF

<u>Course</u>	<u>Instructor</u>
Path. 262 (Epidemiology)	Narceo B. Bajet (Prospective Ph.D. recruit)
Path. 239 (Acarology)	



LIST OF ADVISORS AND AVAILABLE FIELDS FOR  
MASTERAL THESIS IN THE DEPARTMENT  
OF PLANT PROTECTION

A. Present Staff:

<u>Name</u>	<u>Fields</u>
1. Dr. E. N. Bernardo	Plant Resistance Stored Products Entomology Bionomics
2. Dr. N. M. Esguerra	Pest Management (Insects) Insect Ecology Bionomics
3. Dr. D. P. Gapasin	Insect Taxonomy/Systematics (for selected groups) Insect Morphology Bionomics
4. Dr. M. K. Palomar	Plant Virology Molecular Genetics (Virus) Pest Management (Diseases)

B. Returning Staff with Ph.D.:

<u>Name</u>	<u>Fields</u>	<u>Date Returning</u>
1. Ruben M. Gapasin	Nematology Disease Control	1983
2. Paciencia P. Milan	Economic Zoology Aquatic Entomology Insect Ecology	1983
3. Rosalinda S. Oro	Mycology Disease Control	1981
4. Lina V. Talaboc	Insect Pathology Biological Control Insect Transmission Bionomics	1981
5. Rolinda L. Talatala <sup>1/</sup>	Weed Science	1981 +

<sup>1/</sup> Affiliate staff



Appendix D

STAFF DEVELOPMENT PLAN FOR Ph.D. DEGREE  
DEPARTMENT OF PLANT PROTECTION

<u>Name</u>	<u>Field of Specialization</u>	<u>Year</u>
Corazon B. Batoy	Medical Entomology	1983
Estrilda A. Carilo	Insect Physiology	1983
Ma. Flerida A. Cariño	Insect Toxicology	1982
Marita I. Galinato <sup>1/</sup>	Weed Ecology	1982
Fredeswinda O. Lao	Fungal Physiology	1981
Jesusito L. Lim	Industrial Microbiology	1984
Constancio M. Napiere	Bacterial Genetics	1981
Lorenza B. de Pedro	Taxonomy of Immatures	1985

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<sup>1/</sup>Affiliate staff



DEPARTMENT OF AGRONOMY AND SOIL SCIENCE

APPENDIX E<sub>1</sub>

I. Change of title of major program from BSA major in Soils to BSA major in Soil Science

Rationale:

The term "soil science" is universally accepted. It is more acceptable and appropriate terminology than "soils". Definitely, the study of soils is a science because it involves scientific investigation aimed at knowing their physical, chemical, and biological properties as well as their relationships to living and non-living things, the results of which will lead to the formulation of principles and establishment of facts.

In view of the above considerations, it is proposed that the title of the said major program be changed from major in Soils to major in Soil Science. This would add dignity and scientific implication to the title.

APPENDIX E<sub>2</sub>

II. Proposed Revision of Horticulture and Soils Major Offering Under the BSA Program

The present major program in horticulture and soils were formulated five years ago when the staff members of the college were still very few and their technical expertise, fairly limited. Since then, the college has been undertaking an aggressive recruitment of highly qualified staff members coupled with a massive staff development.

Although staff development and recruitment are still going on, the college at present already has academic staff members whose pooled strength is much stronger than it was five years ago. This increase in technical expertise has encouraged the college to assess its present major programs in horticulture and soil science. As a result, these revisions are being proposed with the aim of improving the existing programs.

A. Proposed Revision of the Major Offering in Horticulture under the BSA Degree Program

1. Inclusion of three additional core courses and transferring of two courses from the existing core courses to the elective courses.

Rationale:

Present assessment of the major course offering in horticulture indicates that the formal courses in the core are inadequate. A horticulture major student, regardless of the crop he will work on, must take five (5) formal core courses with an equivalent of 15 units, in addition to thesis and seminar. These courses deal with plant breeding, plant physiology, statistics, post harvest physiology of crops, and crop production and management (Pls. see Appendix A).



The present major offering does not include courses in plant breeding, post harvest physiology, and crop production and management. Thus inclusion of Ag. Bot. 31 (Principles of Plant Breeding), Hort. 107 (Post harvest Physiology of Perishable Crops) and Hort. 104 (Plantation Crop Production and Management I) is proposed.

Inclusion of the said three courses will increase the number of units allotted for the core courses. However, to maintain balance of core and elective courses and flexibility in the selection of other courses by the student which are related to the problem he would like to work on for his thesis, transferring of two courses from the present core courses to elective courses is necessary.

The courses to be transferred are Hort. 103 (Propagation and Nursery Management) and Soils 109 (Advanced Soil Fertility). These courses are the ones selected because in teaching specific crops, it is always important to include propagation and rearing of seedlings. Moreover, a student will be able to understand the basic principles of plant-soil relationships after earning six (6) units in Soil Science (Fundamental of Soil Science, 3 units; Soil Fertility, 3 units).

## 2. Revision of Courses

### a. Change in course number, title and course description

1. Hort. 35 -- Plantation Crop Production and Management -- Production and management of plantation crops with emphasis on banana, coffee and cacao.

Prerequisite: Hort. 22

5 hours a week (2 lec., 3 lab)

Credit: 3 units

#### To read:

Hort. 104 -- Plantation Crop Production and Management I -- Botany, production, and management of coconut, abaca, cacao, coffee and spices.

Prerequisite: Hort. 22

5 hours a week (2 lec., 3 lab)

Credit: 3 units

#### Rationale:

Banana, a fruit crop, will be treated under Horticulture 106 (Pomology and Orchard Management). Coconut and abaca are plantation crops which should be included and given more emphasis under this course because these two crops are important commercial crops extensively grown in Eastern Visayas. In addition, P.D. 470, VISCA Charter, specified coconut and abaca as the major thrust (commodity)



of the said college. Cacao, coffee, and spices are also important plantation crops which can be utilized in cropping system and can be grown under coconut, abaca, rubber, banana, etc. For change in course number please see rationale for letter b on page 4.

2. Hort. 48 - Industrial Oil Crops and Spices - Growing, propagating, and processing of industrial oil crops and spices.

Hort. 36 Prerequisite: Hort. 22  
5 hours a week (2 lec., 3 lab)  
Credit: 3 units

To read:

- Hort. 105 - Plantation Crop Production and Management II - Botany, production and management of oil-bearing plants (except coconut); bast and leaf fiber crops (except abaca); rubber; specialty crops; and others.

Prerequisite: Hort. 22  
5 hours a week (2 lec., 3 lab)  
Credit: 3 units

Rationale:

There are so many plantation crops that it is impossible to cover adequately all of them in one course. Course number is changed to 105 because this is a continuation of Hort. 104.

- b. Change in course number

- Hort. 31 - Tropical Olericulture
- Hort. 33 - Floriculture and Landscape Gardening
- Hort. 34 - Plant Propagation and Nursery Management
- Hort. 37 - Post-harvest Physiology of Perishable Crops
- Hort. 46 - Pomology and Orchard Management
- Hort. 99 - Undergraduate Seminar
- Hort. 100 - Undergraduate Thesis

To read:

- Hort. 101 - Tropical Olericulture
- Hort. 102 - Floriculture and Landscape Gardening
- Hort. 103 - Plant Propagation and Nursery Management
- Hort. 106 - Pomology and Orchard Management
- Hort. 107 - Post-harvest Physiology of Perishable Crops
- Hort. 199 - Undergraduate Seminar
- Hort. 200 - Undergraduate Thesis



Rationale:

To conform with the proposed change in numbering of undergraduate major courses of the college starting from 30-99 to 100-200 level.

3. Abolition of Courses

Hort. 36 - Abaca - Physiology, nutrition, varietal improvement, production, utilization, processing and storage of abaca.

Prerequisite: Agron. 21  
5 hours a week (2 lec., 3 lab)  
Credit: 3 units

Hort. 41 - Coconut - Physiology, nutrition, varietal improvement, production, utilization, processing and storage of coconut.

Prerequisite: Agron. 21  
5 hours a week (2 lec., 3 lab)  
Credit: 3 units

Rationale:

Abaca and coconut are already included under Hort. 104 (Plantation Crop Production and Management I). Also, treating abaca/coconut as one specific plantation crop in one whole semester becomes highly specialized crop, thus limiting the knowledge of students on other plantation crops.

4. Institution of a Course

Hort. 108 - Plantation Crop Products - Handling, processing, and grading. Post-harvest operations with emphasis on coconut, abaca, coffee, cacao and spices.

Prerequisite: Hort. 22  
5 hours a week (2 lec., 3 lab)  
Credit: 3 units

Rationale:

Students who major in horticulture should not only be able to produce horticultural crops but they should also be equipped with the basic principles of handling, processing and grading of plantation crop products. These operations have bearing on the production and management practices that should be employed.



## APPENDIX A

## Present and Proposed Major Course Offering in Horticulture

<u>Present</u>			<u>Proposed</u>		
a) Major core courses (19 units)			a) Major core courses (22 units)		
<u>Course No.</u>	<u>Title</u>	<u>Units</u>	<u>Course No.</u>	<u>Title</u>	<u>Units</u>
Hort. 34	Pl. Prop. & Nur. Mgt.	3	Ag.Bot. 34	Pl. Physiol.	3
Soils 31	Adv. Soil Fert.	3	Hort. 104	Pln. Crop Prod. & Mgt. I	3
Ag.Bot. 34	Pl. Physiol.	3	Hort. 107	Post-harvest Physiol. of Perishable Crops	3
Ag.Bot. 42	Field Plot Tech. & Expt'l. Design	3	Ag.Bot. 31	Prin. of Pl. Brdg.	3
Hort. 99	Undergrad. Seminar	1	Ag.Bot. 42	Field Plot Tech. & Expt'l. Design	3
Hort. 100	Undergrad. Thesis	6	Hort. 199	Undergrad. Seminar	1
		<u>19</u>	Hort. 200	Undergrad. Thesis	6
					<u>22</u>
b) Elective Courses (18 units)			b) Elective Courses <u>1/</u> (15 units)		
<u>Course No.</u>	<u>Title</u>	<u>Units</u>	<u>Course No.</u>	<u>Title</u>	<u>Units</u>
Hort. 31	Trop. Olericulture	3	Hort. 101	Trop. Olericulture	3
Hort. 33	Flori. & Lands. Gardng.	3	Hort. 102	Flori & Lands. Gardng.	3
Hort. 35	Pln. Crop Prod. & Mgt.	3	Hort. 103	Pl. Prop. Nur. Mgt.	3
Hort. 37	Post-harvest Physiol. of Perishable Crops	3	Hort. 105	Pln. Crop Prod. & Mgt. II	3
Hort. 41	Coconut	3	Hort. 106	Pomology & Orch. Mgt.	3
Hort. 46	Pomology & Orch. Mgt.	3	Hort. 108	Pln. Crop Products	3
Hort. 48	Ind. Oil Crops & Spices	3	Agron. 41	Seed Technology	3
Agron. 41	Seed Technology	3	Agron. 43	Cropping Systems	3
Agron. 43	Cropping Systems	3	Ag.Bot. 36	Pl. Nutrition	3
Ag.Bot. 36	Pl. Nutrition	3	Ag.Bot. 37	Pl. Growth & Dev.	3
Ag.Bot. 37	Pl. Growth & Dev.	3	Ag.Bot. 38	Plant Ecology	3
Ag.Bot. 38	Plant Ecology	3	Weed Sci. 101	Weeds & Their Control	3

1/ To complete the 37 units of the major courses, in addition to 22 units of the core courses, a student may take the remaining 15 units from the proposed list of elective courses. Additional courses from other departments which are not included in the list may be taken upon the recommendation of the adviser and approval of the department head.



## B. Proposed Revision of BSA Major in Soil Science

The present and proposed course requirements are shown in Appendix Table 1. The specific revisions being proposed and their rationale are the following:

### 1. Revision of the Course Requirement

#### a. Inclusion of some core course

The required core courses are supposed to provide adequate background in Soil Science regardless of their field of specialization. In the present course requirement, some of the fields in Soil Science are not represented in the core courses, hence there is a need to include Soil Science 104 (Soil Physics), and Soil Science 101 (Agricultural Geology). The inclusion of Ag. Bot. 42 (Field Plot Techniques and Experimental Designs) is also recommended to prepare the major students on their thesis work and future researches that they may conduct.

The inclusion of the three (3) subjects increased the total units for core courses from 28 to 37. However, Soil Science 107 (Soil Organic Matter) and Soil Science 108 (Soil and Plant Diagnostic Technique) will be transferred from core to elective courses, thus leaving a total of 34 units. Those who would specialize in Soil Microbiology and Soil Chemistry have to take Soil Science 107 (Soil Organic Matter) and Soil Science 108 (Soil and Plant Diagnostic Technique), respectively.

#### b. Addition of some elective courses

Soil Science 107 <sup>*</sup>	Soil Organic Matter
Ag. Chem. 33	Quantitative Inorganic Chemistry
Agron. 32	Legumes
Agron. 36	Cereal Production
Agron. 44	Pasture and Forage Crops
Agron. 46	Root Crops
Hort. 104	Plantation Crop Production and Management I
Hort. 101	Tropical Olericulture
Hort. 106	Pomology and Orchard Management

There is a need to include Ag. Chem. 33 (Quantitative Inorganic Chemistry) in the elective courses for those who would specialize in Soil Chemistry. Agronomy and Horticulture subjects are also included for those students who would be working on specific crops.

\* Transferred from core courses to elective courses.



### c. Deletion of some elective courses

Soil Sci. 109	Advanced Soil Fertility
Soil Sci. 111	Soil Genesis and Morphology
Soil Sci. 113	Soil Mechanics
Soil Sci. 112	Clay Mineralogy

The above courses are to be deleted from the list of elective courses because they will be included among the graduate courses which the department would offer in the future. They are advanced courses and highly specialized.

## 2. Revisions of Courses

### a. Changes in course number, title, and description.

Soils 37	Rocks and Minerals - Fundamentals of geologic formation, kind, properties and influence of rocks and minerals as parent materials of soils.
----------	---

Prerequisite: Consent of Instructor  
5 hours a week (2 lec., 3 lab)  
Credit: 3 units

#### To read:

Soil Science 101	Agricultural Geology - Common soil-forming rocks and minerals, geologic agencies and processes; land forms in relation to agriculture.
------------------	--

(Same prerequisite, same number of hours and credits)

#### Rationale:

There is a need to change the title because the title "Rocks and Minerals" does not include geologic agencies and processes. Likewise there is a need to change the description to emphasize relevance of the course to agriculture. Change in course number is necessary to concur with the proposed change in numbering of undergraduate major courses of the college from 30-99 to 100-200 levels.

### b. Change in course number and prerequisite

Soils 36	Soil Survey and Classification - Soil survey and land capability; soil mapping; laboratory and field classification of soil types.
----------	--

Prerequisite: Soils 34 (Soil Genesis and Morphology)  
7 hours a week (1 lec., 6 lab)  
Credit: 3 units



## To read:

Soil Science 102 (the same title; description and number of hours/week)

Prerequisite: Soils 36 (Agric'l. Geology)

## Rationale:

Change in course number is necessary to concur with the sequence of course offerings. Likewise, change in prerequisite is necessary because among the factors affecting soil formation is parent material which is derived from rocks and minerals. Knowledge of geologic agencies and processes can also facilitate the delineation of one soil type from another. Hence, it is important to make Soil Science 101 (Agricultural Geology) a prerequisite of Soil Science 102.

## c. Change in course number

Soils 48	Soil Microbiology
Soils 32	Soil Physics
Soils 33	Soil Chemistry
Soils 43	Soil and Water Conservation
Soils 35	Soil Organic Matter
Soils 44	Soil and Plant Diagnostic Technique
Soils 31	Advanced Soil Fertility
Soils 41	Fertilizer Manufacture and Chemistry
Soils 34	Soil Genesis and Morphology
Soils 42	Clay Mineralogy
Soils 38	Soil Mechanics
Soils 99	Undergraduate Seminar
Soils 100	Undergraduate Thesis

## To read:

Soil Sci. 103	Soil Microbiology
Soil Sci. 104	Soil Physics
Soil Sci. 105	Soil Chemistry
Soil Sci. 106	Soil and Water Conservation
Soil Sci. 107	Soil Organic Matter
Soil Sci. 108	Soil and Plant Diagnostic Technique
Soil Sci. 109	Advanced Soil Fertility
Soil Sci. 110	Fertilizer Manufacture and Chemistry
Soil Sci. 111	Soil Genesis and Morphology
Soil Sci. 112	Clay Mineralogy
Soil Sci. 113	Soil Mechanics
Soil Sci. 199	Undergraduate Seminar
Soil Sci. 200	Undergraduate Thesis

## Rationale:

To conform with the proposed change in numbering of undergraduate major courses of the college starting from 30-99 to 100-200 level.



APPENDIX TABLE 1

## Present and Proposed Course Requirement for BSA Major in Soil Science

<u>Present</u>			<u>Proposed</u>		
a) Core courses (28 units)			a) Core courses (31 units)		
<u>Course No.</u>	<u>Title</u>	<u>Units</u>	<u>Course No.</u>	<u>Title</u>	<u>Units</u>
Ag.Bot.36	Pl. Nutrition	3	Ag.Bot.36	Pl. Nutrition	3
Soils 33	Soil Chemistry	3	Ag.Bot.42	Field Plot Tech. & Pl. Design	3
Soils 35	Soil Organic Matter	3	Soil Sci. 101	Agric. Geology	3
Soils 43	Soil & Water Conserv.	3	Soil Sci. 102	Soil Survey & Class.	3
Soils 44	Soil & Pl. Diag. Tech.	3	Soil Sci. 103	Soil Microbiology	3
Soils 48	Soil Microbiol.	3	Soil Sci. 104	Soil Physics	3
Soils 99	Undergrad. Seminar	1	Soil Sci. 105	Soil Chemistry	3
Soils 100	Undergrad. Thesis	6	Soil Sci. 106	Soil and Water Conserv.	3
		<u>28</u>	Soil Sci. 199	Undergrad. Seminar	1
			Soil Sci. 200	Undergrad. Thesis	6
					<u>31</u>
b) Elective courses (9 units)			b) Elective courses (6 units)		
<u>Course No.</u>	<u>Title</u>	<u>Units</u>	<u>Course No.</u>	<u>Title</u>	<u>Units</u>
Soils 31	Adv. Soil Fertility	3	Soil Sci. 107	Soil Organic Matter	3
Soils 32	Soil Physics	3	Soil Sci. 108	Soil & Pl. Diag. Tech.	3
Soils 34	Soil Genesis & Morphol.	3	Soil Sci. 110	Fert. Manufacture & Chemistry	3
Soils 37	Rocks & Minerals	3	Ag.Bot.34	Pl. Physiol.	3
Soils 38	Soil Mechanics	3	Ag.Chem.33	Quant. Inorg. Chem.	3
Soils 41	Fert. Manufacture & Chemistry	3	Agron. 32	Legumes	3
Soils 42	Clay Mineralogy	3	Agron. 36	Cereal Prod.	3
			Agron. 42	Sugar Cane	3
			Agron. 44	Pasture & Forage Crops	3
			Agron. 46	Root Crops	3
			Hort. 104	Pln. Crop Prod. & Mgt. I	3
			Hort. 101	Tropical Olericulture	3
			Hort. 106	Pomology & Orch. Mgt.	3



**Budget: List of Titles and Objectives of Action Programs, Projects and Activities**

**Source of Funds:** Canadian Embassy

1. **Title:** Barangay based Rural Development Program for Small Coconut Farmers in Leyte  
**Objective:** To provide small coconut farmers and their families opportunities for training in approved coconut production and processing practices and in the utilization of coconut by-products and to assist them in generating additional income through the proper utilization and sale of processed coconut by-products.  
**Budget:** ₱86,554.00 for the 1st year of implementation yet since releases of funds after the first year will be in accordance with PCRD procedures and policies.  
**Source of Funds:** PCRD (Philippine Coconut Research and Development Foundation, Inc.)
2. **Title:** Mixed Farming of Tilapia nilotica and Colocasia esculenta  
**Objective:** To adapt the system of rice fish culture in gabi-tilapia farming.  
**Source of Funds:** New Zealand Embassy
3. **Title:** Duck Production Project  
**Objective:** To establish a duck production center in barrio Igang and San Isidro Baybay, Leyte and to encourage the people in duck raising to augment their livelihood under the management of a cooperative or an association in the barangay.



## 8. Action Research Projects: Social Lab, Barangay Industry Development

Budget: ₱55,000.00 Laboratory and Barangay Resources Mobilization

Source of Funds: Canadian Embassy

## 4. Title: Macrame and Garment Making Project for the Rural Women

Objective: To augment the family income in the barangay and to support other barangay projects.

9. Budget: ₱25,000.00 Education

Source of Funds: Canadian Embassy

## 5. Title: Out-of-School Youth Rice Thresher Projects.

Objective: To assist the out-of-school youths acquire a rice thresher to augment their income and to give them time to engage in

## 10. Extension other profitable economic activities in their barangay.

Budget: ₱15,000.00

Source of Funds: Canadian Embassy

## 6. Title: Macrame Industry

Objective: To help the barangay people in acquiring more activities by means of macrame industry for additional family income.

Budget: ₱7,000.00

Source of Funds: New Zealand Embassy

## 7. Title: Training on Garment Making Projects

Objective: To train housewives and youths in garment making projects in the barangay.

Budget: ₱6,000.00

Source of Funds: New Zealand Embassy

Source of animals: HPI (Haifer Projects International)



SCHOLARSHIP AGREEMENT FOR STUDIES ABROAD

3

**8. Action Research Projects: Social Lab, Barangay Industry Development****Laboratory and Barangay Resources Mobilization**

This Agreement made and entered into by and between:

**Objective:** To develop and demonstrate strategies and approaches forThe accelerating rural development, culture, (VISCA),  
an institution of higher learning established under**Budget:** ₱120,750.00 Decree No. 470 as amended by Presidential  
Decree No. 700, with principal office at Baybay, Leyte,**Source of Funds:** CES-VISCA represented by the College President,  
DR. FERNANDO A. BERNARDO, hereinafter referred to as**9. Conduct of Non-formal Education****Objective:** To improve the standard of living of the rural populace  
and  
through conduct of non-formal trainings.**Budget:** ₱14,750.00 \_\_\_\_\_, of legal age,**Source of Funds:** CES-VISCA \_\_\_\_\_  
Filipino, single/married to \_\_\_\_\_  
postal address at \_\_\_\_\_**10. Extension Information Program** to as the GRANTEE;**Objective:** To disseminate farm and home informations to farmers,  
housewives and out-of-school youths.**Budget:** ₱6,350.00WHEREAS the GRANTOR has to promote staff development through  
**Source of Funds:** CES-VISCA and Assistantships for graduate work in  
major fields of specialization;**11. Goat and Swine Dispersal Programs**WHEREAS the GRANTEE has fully and satisfactorily met all the  
**Objective:** For the use of the barangay residences who cannot afford  
the Scholarship, Fellowship and Assistantship grants;  
to purchase good animals and breeding stock.**Budget:** No budget nor amount was given for the program except the  
animals. Expenses for maintenance is shouldered by the  
proponent (VISCA).

a)	48 goats @ ₱3,500.00 each	= ₱168,000.00
b)	22 swine @ ₱1,500.00 each	= ₱33,000.00
	<b>Total</b>	<b>₱201,000.00</b>

**Source of animals:** HPI (Heifer Projects International)



SCHOLARSHIP AGREEMENT FOR STUDIES ABROAD

KNOW ALL MEN BY THESE PRESENTS:

This Agreement made and entered into by and between:

The Visayas State College of Agriculture, (ViSCA),  
an institution of higher learning established under  
Presidential Decree No. 470 as amended by Presidential  
Decree No. 700, with principal office at Baybay, Leyte,  
Philippines, duly represented by the College President,  
DR. FERNANDO A. BERNARDO, hereinafter referred to as  
the GRANTOR;

and

\_\_\_\_\_, of legal age,  
Filipino, single/married to \_\_\_\_\_  
with residence and postal address at \_\_\_\_\_;  
hereinafter referred to as the GRANTEE;

W I T N E S S E T H

WHEREAS, the GRANTOR has to promote staff development through  
Scholarships, Fellowships and Assistantships for graduate work in  
major fields of specialization;

WHEREAS, the GRANTEE has fully and satisfactorily met all the  
requirements as to qualifications, standards and criteria set for  
the Scholarship, Fellowship and Assistantship grants;

NOW THEREFORE, for and in consideration of the mutual  
stipulations and conditions hereinafter contained, the parties  
hereto do hereby agree as follows, to wit:

1. Subject to the terms and conditions stated below, the  
GRANTOR hereby awards to the GRANTEE, and the latter  
hereby accepts a ViSCA-World Bank Scholarship grant  
to be effective on \_\_\_\_\_ and terminate  
on \_\_\_\_\_ and for one year at \_\_\_\_\_

for the completion of \_\_\_\_\_ course/degree in \_\_\_\_\_

to be pursued by the GRANTEE pursuant to and by virtue  
of this award, unless otherwise terminated earlier in  
accordance with this covenant. In case of an approved  
renewal/extension of the scholarship, there shall be no  
more necessity for another instrument to be drawn.

2. The GRANTEE agrees and binds himself/herself to:

a.) Pursue the \_\_\_\_\_ course/degree in \_\_\_\_\_

for which the scholarship is granted in the \_\_\_\_\_



- b.) Take a full academic load every semester until the completion of the program of course work without changing his/her field of specialization without prior clearance from the GRANTOR;
  - c.) Accept no other kind of scholarship/fellowship/ assistantship without clearance from the GRANTOR;
  - d.) Accept no employment of any kind while enjoying this scholarship;
  - e.) Submit progress reports at the end of every semester/quarter to the GRANTOR;
  - f.) Endeavor to make his/her thesis dissertation relevant to the GRANTOR's development goals and to the government's agricultural and rural development programs;
  - g.) Communicate with and seek approval from the GRANTOR regarding his/her thesis dissertation problems before finalizing it with his/her thesis adviser;
  - h.) Return to VISCA immediately upon the completion of the study or termination of the grant;
  - i.) Serve VISCA for a period of time at the rate of three years for every year or a fraction thereof not less than two months of enjoyment abroad of the scholarship grant or two years if enjoyed within the Philippines, less than two months of enjoyment of said grant shall be served for half the rate herein specified; Provided, that failure to comply with the provisions of this paragraph or willful abandonment of the grant before the completion thereof shall obligate the GRANTEE to reimburse immediately in full to the GRANTOR all the expenses that the latter or the Philippine Government may have incurred including transportation, salaries and other expenses related thereto as well as external financial grants given through or upon endorsement of the GRANTOR in connection with his/her grant, plus an equity charge equivalent to 100% of the total amount expended as herein above specified, and an interest of 14% per annum from the date of the breach or revocation. It shall be fully understood that proportionate refund shall in NO CASE be allowed.
  - j.) Submit a copy of the thesis manuscript to the VISCA Library.
3. The GRANTEE shall forfeit or otherwise cease to be entitled to all benefits and privileges due him/her under this grant and shall likewise be required to reimburse the GRANTOR in the same manner herein specified, should he/she fail to meet, comply or



GRANTEE shall have to render service to the GRANTOR,

- b.) Optional retirement from the service,
- c.) Removal from the service for cause,
- d.) Revocation of the grant by competent authority on account of the GRANTEE's conduct or behavior prejudicial to the College interest.

4. The GRANTOR binds itself to:

- a.) Pay the GRANTEE in the duration of the scholarship grant, his/her monthly salary.
- b.) Make available to the GRANTEE for his/her enjoyment all the benefits and privileges under the said scholarship.

IN WITNESS WHEREOF, the parties hereto have hereunto affixed their signatures this \_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_ at Baybay, Leyte, Philippines.

VISAYAS STATE COLLEGE OF AGRICULTURE  
Baybay, Leyte

By:

F. A. BERNARDO  
President

\_\_\_\_\_  
Grantee

With my knowledge & consent (If married)

\_\_\_\_\_  
Husband/Wife

Signed in the presence of:

REPUBLIC OF THE PHILIPPINES }  
PROVINCE OF LEYTE } S.S.  
MUNICIPALITY OF BAYBAY }

and \_\_\_\_\_

BEFORE ME, this \_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_ at Baybay, Leyte, Philippines, personally appeared before me Dr. Fernando A. Bernardo with Residence Certificate No. A \_\_\_\_\_ issued \_\_\_\_\_ at \_\_\_\_\_, known to me to be the same person who executed the foregoing instrument and they acknowledged to me that the same is their free voluntary act and deed.

THIS INSTRUMENT consisting of three (3) pages including this acknowledgment has been signed by the parties and their witnesses at the left hand margin and sealed with my notarial seal.

IN WITNESS WHEREOF, I hereunto set my hand the day, year and place above written.



SCHOLARSHIP/FELLOWSHIP/ASSISTANTSHIP  
AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

This Agreement made and entered into by and between:

The Visayas State College of Agriculture, (ViSCA),  
an institution of higher learning established under  
Presidential Decree No. 470 as amended by Presidential  
Decree No. 700 with principal office at Baybay, Leyte,  
Philippines, duly represented by the College President,  
DR. FERNANDO A. BERNARDO, hereinafter referred to as the  
GRANTOR;

and

\_\_\_\_\_, of legal age,  
Filipino, single/married to \_\_\_\_\_  
with residence and postal address at \_\_\_\_\_  
\_\_\_\_\_, hereinafter referred  
to as the GRANTEE;

W I T N E S S E T H

WHEREAS, the Visayas State College of Agriculture has to  
promote staff development through Faculty Fellowships and  
Scholarships for graduate work in major fields of specialization;

WHEREAS, the GRANTEE has fully and satisfactorily met all the  
requirements as to qualifications, standards and criteria set for  
the fellowship or scholarship;

NOW, THEREFORE, for and in consideration of the mutual stipula-  
tions and conditions hereinafter contained, the parties do hereby  
agree as follows:

1. Subject to the terms and conditions stated below, the  
College hereby awards to the GRANTEE, and the latter  
hereby accepts a scholarship/fellowship/assistantship  
grant to be effective on \_\_\_\_\_  
and terminate on \_\_\_\_\_ (or for one year)  
subject to renewal upon recommendation of the ViSCA  
Scholarship Committee and compliance with the pertinent  
provisions of this contract for the completion of a  
\_\_\_\_\_ course/degree in \_\_\_\_\_  
to be pursued by the GRANTEE pursuant to and by virtue  
of this award, unless otherwise terminated earlier in  
accordance with this covenant. In case of an approved  
renewal/extension of his/her scholarship/fellowship/  
assistantship beyond the period specified in this contract  
there shall be no more necessity for another instrument  
to be drawn;

2. The GRANTEE agrees and binds himself/herself to:

a. Pursue the \_\_\_\_\_



- c. Accept no other kind of scholarship/fellowship/assistantship without clearance from ViSCA;
  - d. Accept no employment of any kind while enjoying the scholarship/fellowship/assistantship;
  - e. Maintain a semestral grade point average acceptable to the graduate school;
  - f. Submit a semestral progress report to the President;
  - g. Return to ViSCA immediately upon termination/completion of his/her studies or course under the grant;
  - h. Serve ViSCA for a period of time at the rate of two years for every year or a fraction thereof not less than two months of enjoyment of the scholarship/fellowship/assistantship; less than two months of enjoyment of said grant shall be served for one year. Provided, that failure to comply with the provisions of this paragraph or willful abandonment of the grant before the completion thereof shall obligate the GRANTEE to reimburse immediately in full to the GRANTOR all the expenses that the latter or the Philippine Government may have incurred including transportation, salaries and other expenses related thereto as well as external financial grants given through or upon endorsement of the College in connection with his/her grant plus an equity charge equivalent to 100% of the total amount expended, and 14% interest per annum from the date of breach or revocation. It shall be fully understood that proportionate refund shall in NO CASE be allowed.
  - i. Submit a copy of the thesis manuscript to the ViSCA Library;
3. The GRANTEE shall forfeit or otherwise cease to be entitled to all benefits and privileges due him/her under this Agreement and shall likewise be required to reimburse in the same manner herein specified should he/she fail to meet, comply or observe any of the obligations stipulated hereby and for other causes within his/her control like the following:
- a. Withdrawal from the contract either during the life of the grant or during the period within which the GRANTEE shall have to render service to the GRANTOR.
  - b. Optional retirement from the service.
  - c. Removal from the service for cause.
  - d. Revocation of the grant by competent authority on account of the GRANTEE's conduct or behavior



- b. Defray the cost of one round trip transportation, expenses by boat, (tourist class or its equivalent) once only for the entire duration of the graduate work;

IN WITNESS WHEREOF, we have hereunto affixed our signatures on this \_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_ at Baybay, Leyte, Philippines.

VISAYAS STATE COLLEGE OF AGRICULTURE  
Baybay, Leyte

By:

By:

\_\_\_\_\_  
President  
GRANTOR

\_\_\_\_\_  
GRANTEE

With my knowledge & consent  
(If married)

\_\_\_\_\_  
Husband/Wife

Signed in the presence of:

\_\_\_\_\_  
and \_\_\_\_\_  
REPUBLIC OF THE PHILIPPINES) )  
PROVINCE OF LEYTE ) S.S.  
MUNICIPALITY OF BAYBAY )

BEFORE ME, this \_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_ at Baybay, Leyte, Philippines, personally appeared before me Dr. Fernando A. Bernardo with Residence Certificate No. A- \_\_\_\_\_ issued on \_\_\_\_\_ at \_\_\_\_\_, known to me to be the same persons who executed the foregoing instrument and they acknowledged to me that the same is their free voluntary act and deed.

This instrument consisting of three (3) pages, including this page, each of which has been signed by the parties and their witnesses at the left hand margin and sealed with my notarial seal.

IN WITNESS WHEREOF, I have hereunto set my hand on the date, and place above-written.



b. In general, regular meeting should take up policy-matters, and special meetings should cover urgent implementing or action-programs or projects of approved policies. Specifically, however, the agenda of each regular meeting should include the following items:

The following academic and non-academic personnel who

(1) First Quarter

are awardees of Meritorious Service Awards are hereby recommended

Review of performance during preceding

for a two-step salary increase; pursuant to Budget Circular No.

286 effective January 1, 1979; list of candidates for graduation; and

Ministry.

Proposed programs and budgetary estimates for the next following calendar year.

(2) Second Quarter

1. Prof. Camilo D. Villanueva

- Asst. Professor

Presentation/approval of action-programs, projects

2. Prof and/or activities as per approved operating

school budget for incoming school year; and

3. Mr. Ramon S. Laguna

- Instructor

Review of approved college/university development

4. Mr. plan and/or policies.

- Supervising Mechanic

(3) Third Quarter

1. Mr. Camilo D. Villanueva

- Driver

2. Progress reports on approved programs, projects and/or activities during the year; and

3. Mr. Francisco U. Singson

- Plumber

Confirmation of appointments.

4. Ms. Marcelina C. Amihan

- Clerk

(4) Fourth Quarter

1. Mr. Petronilo B. Munoz

- Utilityman

Presentation/approval of operating budget and plans, programs, projects, activities for the incoming calendar year.

Reference:

MEC Memorandum

No. 226, s. 1979 "BOARD MEETINGS OF CHARTERED STATE COLLEGES AND UNIVERSITIES"

dated Sept. 14,

1979