MINUTES OF THE 25th REGULAR BOARD OF TRUSTEES MEETING
HELD ON JULY 14, 1978, AT THE OFFICE OF THE
MINISTER OF EDUCATION AND CULTURE
METRO MANILA

Present:

Hon. Juan L. Manuel Minister Ministry of Education and Culture, Metro Manila	Chairman
Hon. F. A. Bernardo President Visayas State College of Agriculture	Vice-Chairman
Prof. Andres F. Duatin College Secretary Visayas State College of Agriculture	Secretary

Also Present:

Dr. Cesar C. Jesena, Jr. Vice-President External Affairs and Development Visayas State College of Agriculture	Invited

The Chairman called the meeting to order at 1:22 p.m.

I. Approval of the Minutes of the Previous Meeting:

Approved without corrections.

II. Matters Arising from the Approved Minutes:

A. <u>Causes of Failures Among the High School Students</u>

Pres. Bernardo, in complying with the request of

the Board in its previous meeting, made a brief verbal summary of the findings on the study of the causes of failures on some subjects of some of the students of the Experimental Rural High School at ViSCA. He enumerated the following as probable causes of failure: (Appendix A)

1. Very low percentile rank in:
   (a) Abstract reasoning
   (b) Numerical ability
   (c) Language usage
2. Low mental ability
3. Half-day class field work
4. Poor study habits

In view of these findings, Pres. Bernardo advanced his plans to consider the possibility of offering a general high school which should prepare students for higher education and non-formal education to prepare boys and girls, and even adults, for earlier employment.

The Minister agreed in principle to the offering of a general high school and non-formal education at ViSCA.

III. Report of the President:

A. <u>Possible Purchase of a Hacienda near Ormoc City</u>

Pres. Bernardo apprised Minister Manuel of the decision of the Board in its previous meeting authorizing the College President to negotiate for the purchase of Hacienda Espina near the city of Ormoc.

He described the hacienda as an ideal site for research projects in agriculture with existing roads and an irrigation canal of the NIA crossing through it.

Aware of the provisions of PD 1107, Pres. Bernardo prepared an amendment to the decree, the draft of which he handed to Minister Manuel for his information.

IV. Administrative Matters:

Before deliberating on the matters in the agenda, Minister Manuel suggested that administrative matters may be sub-divided into (a) Routine Matters and (b) Policy Matters. Routine matters may include promotions, appointments, and the like while policy matters may include directives. The suggestion was well taken.

A. Routine Matters

1. Recommendation for appointment as new members of the ViSCA Board of Trustees. Pres. Bernardo presented his proposal recommending the reappointment of Mr. Rufino D. Ayaso, Jr. and theappointment of Mr. Baldrich T. Ocanada as members of the ViSCA Board of Trustees in accordance with the provisions of Presidential Decree 1437, dated June 10, 1978, (Biodata of recommendees, Appendix B).

On motion made and duly seconded, the Board passed:

BOARD RESOLUTION NO. 22, s. 1978

Favorably endorsing the recommendation of the College President to reappoint Mr. Rufino D. Ayaso, Jr., Acting Regional Director of BAEx; Region VIII and appoint Mr. Baldrich T. Ocanada,

an alumnus of ViSCA and Assistant Regional Executive Director of NEDA in Region VIII, as members of the ViSCA Board of Trustees in accordance with the provisions of Presidential Decree No. 1437, dated June 10, 1978, particularly the provisions of Section I which specify two (2) prominent citizens as members, one of whom should be an alumnus of the College

2. Recommendation for appointments. The College President (1) recommended the approval of the appointments of one staff member to the position of assistant professor; (2) presented for Board notation the appointments of seven staff members as authorized by Board Resolution No. 6, s. 1974; (3) recommended the approval of the change of status of two employees from temporary to permanent; (4) recommended the approval of the promotion/salary adjustment of five employees; and (5) recommended the approval of the proposed reclassification of position of sixteen staff members, (Appendix C).

On motion made and duly seconded, the Board passed:

BOARD RESOLUTION NO. 23, s. 1978

Approving the recommendation to appoint Ms. Lourdes A. Golas Asst. Prof, I (Step 3, Old rate), at ₱14,568 p.a. effective June 1, 1978.

Also approving the appointment; as authorized by Board Resolution No. 6, s. 1974, of the following:

1. Mr. Alan L. Presbitero, Instructor I, at ₱9,756 p.a. effective June 13, 1978;

2. Ms. Alice R. Martinez, Asst. Instructor II (Step 3), at ₱8,664 p.a., effective June 19, 1978;

3. Mr. Norberto F. Canada, Instructor II (Step 2), at ₱11,148 p.a., effective June 5, 1978;

4. Ms. Judith C. Bulawan, Asst. Instructor II (Step I) at ₱7,956 p.a., effective June 1, 1978;

5. Ms. Nellie U. Carcallas, Personnel Aide, at ₱5,964 p.a., effective June 16, 1978; and

6. Ms. Milagros L. Gamotin, Accounting Clerk at ₱5,964 p.a., effective July 1, 1978, (Appendix C).

BOARD RESOLUTION NO. 23a, s. 1978

Approving the recommendation for permanent status of the following:

1. Ms. Virgenita G. Albarico as Instructor I, effective August 1, 1978; and

2. Mr. Arturo M. Biscante as Driver-Messenger of the ViSCA Manila Office, effective August 1, 1978, (Appendix C).

BOARD RESOLUTION NO. 23b, s. 1978

Approving the recommendation to PROMOTE/ adjust the salary of the following:

1. Mr. Sixto P. Sandoval, Adm. Asst. II, at ₱10,776 p.a., effective August 1, 1978;

2. Ms. Sonia P. Salandanan, Adm. Asst. I, at ₱9,228 p.a., effective August 1, 1978;

3. Ms. Paz C. Pala, Librarian, at P/10,776 p.a., effective August 1, 1978;

4. Ms. Lolita U. Enriquez, Research Asst. III (Step 2), at ₱10,260 p.a., effective July 1, 1978; and

5. Lt. Maximo M. Villalino, Security Officer, at ₱10,260 p.a., effective July 1, 1978, (Appendix C).

BOARD RESOLUTION NO. 23c, s. 1978

Approving the proposed position reclassification for the following ViSCA Scholars/ Fellows who have just returned from their respective studies:

1. Ms. Iluminada C. Abihay as Asst. Prof. II (Step 3) at ₱16,860 p.a.;

2. Mr. Constancio M. Napiere as Asst. Prof. I (Step 3) at ₱16,004 p.a.;

3. Mr. Teodulo C. Milleza as Asst. Prof. I (Step I) at ₱15,264 p.a.;

4. Ms. Paciencia P. Milan an Asst. Prof. I (Step 1) at ₱15,264 p.a.;
5. Mr. Veronico P. Subere as Instructor V (Step 1) at ₱15,264 p.a.;
6. Ms. Avelina C. Floresca as Instructor IV (Step 3) at ₱15,264 p.a.;
7. Ms. Fredeswinda C. Lao as Instructor IV (Step 1) at ₱14,532 p.a.;
8. Mr. Rebecco M. Santiago as Instructor IV (Step 1) at ₱14,532 p.a.;
9. Ms. Grace B. Alo as Instructor IV (Step 1) at ₱14,532 p.a.;
10. Mr. Nonilon T. Bulilan as Instructor IV (Step 1) at ₱14,532 p.a.;
11. Mr. Pedro P. Pascual as Instructor IV (Step 1) at ₱14,532 p.a.;
*12. Dr. Tomas J. Fernandez, Jr., as Instructor IV (Step 1) at ₱14,532 p.a.;
*13. Ms. Antonia Cecilia D. Yap as Insturctor IV (Step 1) at ₱14,532 p.a.;
*14. Ms. Florenda O. Labus as Instructor IV (Step 1) at ₱14,532 p.a.;
*15. Mr. Ruben M. Gapasin as Instructor IV (Step 1) at ₱14,532 p.a.;
*16. Ms. Lutgarda H. Salares as Instructor III (Step 1) at ₱13,152 p.a.

All to take effect upon availability of positions in their respective departments or upon release of funds for upgrading purposes, (Appendix C).

*Per Academic Personnel Board policy, the minimum rank given to MS graduate of technical field is Instructor IV.

3. <u>Recommendation to pay honorarium to the Editor of the Research Journal</u>. Pres. Bernardo presented for Board approval his recommendation to pay honorarium to the editor of the research journal and recommended the appointment of Dr. Manuel K. Palomar as editor of the Tropical Science Journal.

On motion made and duly seconded, the Board passed:

BOARD RESOLUTION NO. 24, s. 1978

Approving the recommendation to pay honorarium to the editor of the Tropical Science Journal at the rate of ₱500 per issue and noting the College President's recommendation to appoint Dr. Manuel K. Palomar Editor of the Tropical Science Journal, effective immediately, with suggestion to present Dr. Palomar's bio-data in the next meeting of the Board.

V. Budgetary Matters:

A. Budget Proposal for the Research Journal

The College President presented the proposed budget for the research journal (Appendix D) to finance the first issue which is expected to be published before the year ends.

On motion made and duly seconded, the Board passed:

BOARD RESOLUTION NO. 24a, s. 1978

Approving the proposed budget of the Tropical Science Journal for the first issue, 1978, after excluding the proposed Administrative Cost at ₱1,401.40 and Equipment Outlay of ₱7,000.00, leaving a total approved appropriation of ₱16,802.55 (Appendix D), chargeable to the ViSCA research fund.

B. Budget Proposed for the ViSCA Foundation Elementary School

In presenting the proposed budget for the ViSCA Foundation Elementary School, (Appendix E), Pres. Bernardo told Minister Manuel that he (the President) "had to open an elementary school to serve the needs of members with children."

"This elementary school is open only for the children of the staff," the College President continued.

On motion made and duly seconded, the Board passed:

BOARD RESOLUTION NO. 25, s. 1978

Approving *in toto* the proposed budget for the ViSCA Foundation Elementary School for the school year 1978-79, and allowing the release of ViSCA's contribution to the foundation in the amount of ₱39,800 distributed as follows:

1. For Budget Year 1978 - ₱19,900 and
2. For Budget Year 1979 - ₱19,900;

to take effect immediately, subject to availability of funds.

VI. Academic Matters:

The proposed Bachelor of Animal Science (BAS) Curriculum, a four-year degree program, was presented for the second time for Board approval.

On motion made and duly seconded, the Board passed:

BOARD RESOLUTION NO. 26, s. 1978

Approving *in toto* the proposed Bachelor of Animal Science (BAS) curriculum to take effect as soon as possible, subject to the availability of faculty, facilities, and other instructional materials necessary (Appendix F).

VII. Other Matters:

A. Proposed 1978 Budget for the Project Implementing Unit (PIU) ViSCA

Pres. Bernardo presented for Board approval the 1978 Budget for the Project Implementing Unit (PIU), supported by ViSCA, (Appendix G).

On motion made and duly seconded, the Board passed:

BOARD RESOLUTION NO. 27, s. 1978

Approving in toto the proposed budget of the Project Implementing Unit (PIU) which is supported by Capital Outlay Funds of ViSCA in the amount of ₱214,600 distributed as follows:

I.	Salaries (contractual)	₱9,950/mo.
II.	Honorarium	₱4,800/mo.
III.	Transportation	₱1,200/mo.
IV.	Supplies and Materials	₱1,500/mo.
V.	Sundries	₱ 500/mo.,

or a grand total of ₱17,950 per month, for a period of one year operation, or ₱214,600, to take effect immediately, subject to availability of funds and the usual COA regulations.

There being no other matter to discuss, the Chairman adjourned the meeting at 2:30 p.m.

Certified True and Correct:

(SGD.) ANDRES F. DUATIN
Secretary

Attested:

(SGD.) HON. JUAN L. MANUEL
Chairman
Minister, Ministry of Education
and Culture, Metro
Manila

Approved as Corrected: September 19, 1978

APPENDIX A

POSSIBLE CAUSES OF FAILURES OF ERHS STUDENTS
(School Year 1977-78)

Introduction

THE most important products of our school are the graduates - the output of the system. All imputs in terms of the curriculum, teacher, medium of instruction, facilities and equipment are the means of turning out quality products. In the implementation of the education program, major problems must be solved; otherwise they either lower the quality of the product or fail to produce the desired output as in the case of dropouts or failures of students.

Statistics on the holding power of vocational schools show that of the 26,000 first year enrollees in 1964 in the trade, agriculture and fishery high schools, only 13,321 graduated in 1968 and 13,269 or about 50 percent left school without finishing the course (Statistics Bulletin, 1968). Since the investment of the government in vocational education is ₱417 per students per year (Annual Report, 1968-69), those who dropped out meant the loss to the Bureau of Vocational Education of ₱/5,533,173 for the period.

Official records of the Visayas Agriculture College (former name of ViSCA) revealed that from 1960 to 1970, out of an average of 200 first year enrollees, only an average of 80 finished the course or a retention rate of 40 percent (Bascug, 1972). Rosario (1947-58), in his study on dropouts found a similar trend at the Nueva Vizcaya National Agricultural School where out of 1,033 freshmen admitted over a period of eight years, only 275 or 27 percent graduated.

The aforementioned figures suggested the need to know the posible causes of dropouts or failures in schools.

Status of Failures of ERHS Students

The data presented on the Rationale of the Proposal for ERHS Summer Classes were based on the 3rd quarterly grade reports (Table 1) which were the latest grade reports at the time the proposal was made. However, Table 2, shows that the percentage of failures was decreased from 41.61 percent to 15.58 percent with 26.03 percent decreased in failures as shown in Table 3. Because of this decrease, only Communications Arts II (English), Pilipino IV, Mathematics I and II and Economics were offered last summer. Pilipino IV and Economics were offered as advanced courses for those third year students who failed in Science III.

Possible Causes of Failures

1. From the results of the Academic Promise Test, conducted last November 1977, it was found that all those who failed in academic subjects obtained a very low percentile rank in abstract reasoning, numerical ability, verbal ability and language usage. These results are consistent with the very low performance in academic subjects. Hence they can be considered as possible cause for failures.

2. Furthermore, the records in the guidance office on the mental ability of students show that the students who failed had very low mental ability. The very low mental ability might be another cause of failures.

3. The fact that the greatest percentage of failures is in the vocational agriculture curriculum as shown in Tables 4 and 5, might lead us to another possible cause of failure which is the half-day daily exposure to field work. The seven academic subjects of the

vocational agriculture curriculum plus the physical exertion required in their farming program make it very difficult for them to achieve the necessary progress in the learning process. This is especially true to students who have very low I. Q.

4. Finally, it has been observed as per record from the Guidance Office, that the students who failed have very poor study habits.

Enrolment: 1st Year - 167
2nd Year - 129
3rd Year - 127
4th Year - 103
Total 526

Table 1. Percentage of Failures of ERHS Students Based on the Third Quarterly Grade Report

Academic Subjects	Percentage of Failures									
	1st Yr.		2nd Yr.		3rd Yr.		4th Yr.		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%
Comm. Arts (English)	5	.95	4	.76	17	3.23	6	1.14	32	6.08
Comm. Arts (Pilipino)	23	4.37	13	2.47	22	4.18	18	3.42	76	14.44
Literature	1	.19	-	-	-	-	-	-	1	.19
Science	12	2.28	-	-	20	3.80	6	1.14	38	7.22
Mathematics	21	3.99	25	4.75	10	1.90	3	.57	59	11.21
Social Science	7	1.33	1	.19	4	.76	1	.19	13	2.47
Total	69	13.11	43	8.17	73	13.87	34	6.46	219	41.68

Enrolment: 1st Year - 167
2nd Year - 129
3rd Year - 127
4th Year - 103
Total 526

Table 2. Percentage of Failures of ERHS Students Based on the Fourth Quarterly Grade Report

Academic Subjects	Percentage of Failures									
	1st Yr.		2nd Yr.		3rd Yr.		4th Yr.		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%
Comm. Arts (English)	5	.95	5	.95	5	.95	-	-	15	2.85
Comm. Arts (Pilipino)	8	1.52	-	-	-	-	-	-	8	1.52
Literature	1	.19	-	-	-	-	-	-	1	.19
Science	3	.57	-	-	16	3.04	-	-	19	3.61
Mathematics	21	3.99	11	2.09	3	.57	-	-	35	6.65
Social Science	3	.57	-	-	1	.19	-	-	4	.76
Total	41	7.79	16	3.04	25	4.75	-	-	82	15.58

N = 526

Table 3. Comparison of the Total Percentage of Failures of ERHS Students During the 3rd and 4th Quarters

Academic Subjects	Percentage of Failures					
	Third Quarter		Fourth Quarter		Decrease in Failures	
	No.	%	No.	%	No.	%
omm. Arts (English)	32	6.08	15	2.85	17	3.23
omm. Arts (Pilipino)	76	14.44	8	1.52	68	12.93
iterature	1	.19	1	.19	-	-
cience	38	7.22	19	3.61	19	3.60
athematics	59	11.21	35	6.65	24	4.56
ocial Science	13	2.47	4	.76	9	1.71
otal	219	41.61	82	15.58	137	26.03

= 526

Table 4. Distribution of the Total Percentage of Failures of ERHS Students During the 3rd Quarter by Curricular Offerings

Academic Subjects	Percentage of Failures by Curricular Offerings							
	Homemaking (Vocational)		Vocational Agriculture		Agricultural Science		Total	
	No.	%	No.	%	No.	%	No.	%
omm. Arts (English)	7	1.33	24	4.56	1	.19	32	6.08
omm. Arts (Pilipino)	20	3.80	55	10.47	1	.19	76	14.46
iterature	-	-	-	-	1	.19	1	.19
ience	13	2.47	20	3.80	5	.95	38	7.22
thematics	14	2.66	41	7.79	4	.76	59	11.21
ocial Science	1	.19	12	2.28	-	-	13	2.47
otal	55	10.45	152	28.90	12	2.28	219	41.63

= 526

Table 5. Distribution of the Total Percentage of Failures of ERHS Students During the 4th Quarter by Curricular Offerings

Academic Subjects	Percentage of Failures by Curricular Offerings							
	Vocational Homemaking		Vocational Agriculture		Agricultural Science		Totals	
	No.	%	No.	%	No.	%	No.	%
Comm. Arts (English)	1	.19	10	1.90	4	.76	15	2.85
Comm. Arts (Pilipino)	2	.38	5	.95	1	.19	8	1.52
Literature	-	-	-	-	1	.19	1	.19
Science	8	1.52	5	.95	6	1.14	19	3.61
Mathematics	6	1.14	22	4.18	7	1.33	35	6.65
Social Science	1	.19	2	.38	1	.19	4	.76
TOTAL	18	3.42	44	8.36	20	3.80	82	15.58

N = 526

APPENDIX B

BIO-DATA

NAME	- Rufino D. Ayaso, Jr.
DESIGNATION	- Actg. Regional Director
DATE & PLACE OF BIRTH	- April 17, 1923; Barugo, Leyte
CIVIL STATUS	- Married
NAME OF SPOUSE	- Ms. Dalisay Brazil
NUMBER OF CHILDREN	- Nine (9)
CITY ADDRESS	- BAE Compound, Tacloban City
PROVINCIAL ADDRESS	- Barugo, Leyte

EDUCATIONAL QUALIFICATION:

Barugo Elementary School, Barugo, Leyte	- 3rd Grade	- 1930-33
Tacloban Catholic Institute, Tacloban City	- 7th Grade	- 1933-36
Tacloban Catholic Institute, Tacloban City	- 4th Yr. H.S.	- 1936-1940
UP College of Agriculture, College, Laguna	-	- 1947-51

CIVIL SERVICE ELIGIBILITY:

Senior Agriculturist	- Cebu City	- August 20, 1955	- 70.06%
Provincial Agriculturist	- Cebu City	- April 27, 1968	- 75.34%

SERVICE RECORD:

INCLUSIVE DATES	DESIGNATION	STATUS	SALARY	OFFICE	BRANCH
12/13/41 - 1946	Corporal		₱ 37.	Phil. Army	National
1/5/52 - 11/30/52	Mun. Agri. Inspector	Temp.	1,260	B.P.I.	Provincial
12/1/52 - 6/30/53	Mun. Agriculturist	Temp.	1,560.	B.A.E.	Provincial
7/1/53 - 9/31/57	Asst. Prov'lAgrcl't	Temp.	2,160	B.A.E.	Provincial
10/1/57 - 2/3/58	-do-	Perm.	2,400	B.A.E.	Provincial
2/4/58 - 3/31/59	Reg'l. Ru. Clubs Agt	Perm.	2,710	B.A.E.	National
4/1/59 - 6/30/59	-do-	Perm.	3,339	B.A.E.	National
7/1/59 - 6/30/60	-do-	Perm.	3,566.40	B.A.E.	National
7/1/60 - 6/30/61	-do-	Perm.	3,877.20	B.A.E.	National
7/1/62 -6/30/63	-do-	Perm.	4,404.	B.A.E.	National
7/1/63 - 3/31/64	-do-	Perm.	4,770.96	A.P.C.	National
7/1/65 - 6/30/68	Actg. Prov'l Agric Prov'l Agric'st	Perm.	5,112	B.A.E.	National
7/1/68 - 6/30/75	-do-	Perm.	15,000	B.A.E.	Provincial
7/1/75 - 12/31/76	-do-	Perm.	16,500	B.A.E.	Provincial
1/1/77 - 7/31/77	-do-	Perm.	18,150	B.A.E.	Provincial
8/1/77 - 9/7/77	-do-	Perm.	21,624	B.A.E.	Provincial
9/8/77 - 3/6/78	Prov'l Agric. & OIC, Reg. VIII	Perm.	21,624		Provincial
3/7/78 - Present	Actg. Regional Director	Perm.	22,728	B.A.E.	National

RUFINO D. AYASO, JR. - Provincial Agriculturist

IN-SERVICE TRAININGS, SEMINARS, STUDY AND SCHOLARSHIP GRANTS

Field of Training	Place of Training	Period of Training	Conducted by
4-H Leadership Training	-Georgia, U.S.A.	-Jan-Mar 3, 1961	-NEC-ICA
Extension Communication	-Georgia, U.S.A.	-Jan-Mar 3, 1961	-NEC-ICA
Ext. Admin. Supervision	-Lousiana, U.S.A.	-Mar6-May 5, 1961	-NEC-ICA
Observation on.Agri'l Ext. Service	-Hawaii, U.S.A.	June, 1961	-NEC-ICA
-do-	-Puerto Rico	-May, 1961	-NEC-ICA
Personnel Management	-Tacloban City	-Feb. 7-11, 1966	-Prov'l & CSC
Post Nutrition Survey Sem.	-Cebu City	-June 27-30, 1966	-NSDB
Training Course for RCPCC Directors	-UPCA	-Oct. 3-15, 1966	-RCPCC(NFAC)
Farm Mgnt. Seminar	- Tacloban City	-Mar. 6-11, 1967	-Prov'l RCPCC
Farm Mgnt. Seminar	-Cebu City	-Mar. 13-18, 1967	-Reg'l. RCPCC
Rice Culture Seminar	-Tacloban City	-Oct. 23-25, 1968	-RCPCC
Corn Culture Seminar	-Tacloban City	-Mar. 21-23, 1968	-RCPCC
Technical Skills Dev. Sem.	-Bacolod City	-Jan. 22-26, 1968	-APC
Vegetable Culture Seminar	-Cebu City	-Sept. 11-13, 1968	-RCPCC
Seminar Workshop on Rural Communication	-Tacloban City	-Dec. 9-14, 1968	-RCPCC
Coconut Culture Seminar	-Tacloban City	-Sept. 15-17, 1969	-RCPCC
Extension Adm. & Seminar-Workshop	-Diliman, Q.C.	-Sept. 22-28, 1969	-APC & CSC
Planning, Operation & Mgnt of Integrated Aricultural Project	-Japan	-Aug. 9-Sept. 8, 1970	-Japanese Govt & Colombo Plan
ASEAN Agri'l Extension Sem. & Study Tour	-Quezon City	-April 1-18, 1973	-ASEAN
Management Program for NFAC	-Makati, Rizal	-Nov. 2-22, 1975	-NFAC-AIM
Executive Development Training Prog. for Prov'l & City Agriculturist	-Tagaytay City	-Feb. 4-13, 1977	-BAE-DAP
6th PCARR Team Leaders Confab with NEDA Reg'l Directors & DA/DNR Reg'l Officials	-Cebu City	-Feb. 27-Mar. 1, 1978	-PCARR

RUFINO D. AYASO - Provincial Agriculturist

II. CIVIC ORGANIZATIONS

- UPCA Alumni Association of the Philippines
- UPCA Alumni Association, Cebu Chapter
- UP Alumni Association, Leyte Chapter
- Phil. Association of Technical Assistance Participants, Leyte Chapter
- American Society of Agronomist
- Leyte BAE Employees Association
- Leyte BAE Employees Cooperative Credit Union, Inc.
- LSBDA Employees Cooperative

III. SPECIAL AWARDS

- The Presidential Golden Plow Award for Government Service as Masagana 99 Program Officer for Leyte-1974
- DANR Citation for Exemplary Service and Leadership under the Masagana 99 Rice Production Program- 1974
- Most Outstanding Provincial Agriculturist in Region VIII for Fiscal Year 1974-75 BAE-UNIVET ATLAS
- Most Outstanding Provincial Agriculturist in the Phil. for Fiscal Year 1974-75 BAE-UNIVER-ATLAS
- Most Outstanding Provincial Agriculturist in Region VIII for Fiscal Year 1976

IV. OTHERS

-Member - Board of Trustees-
Visayas State College of Agriculture

-Member- Board of Directors-
Phil. Rural Development and Services Corp.

-Provincial Chairman -NFA

-Member-Board of Directors-Sab-a Basin Dev. Authority

-Provincial Program Officer for Rice (Masagana 99)

-Provincial Coordinator -Fertilizer & Pesticides Authority

-Officer in Charge- Leyte Sab-a Basin Dev. Authority

-Regional Coordinator - Masagana 99 Rice Production Prog. Region VIII.

Respectfully submitted:

(SGD) RUFINO D. AYASO, JR.
Actg. Regional Director

CURRICULUM VITAE

NAME	- BALDRICH T. OCANADA
DATE OF BIRTH	- February 8, 1935
CIVIL STATUS	- Married
PRESENT OFFICE ADDRESS	- National Economic and Development Authority Tacloban City, Philippines

EDUCATIONAL QUALIFICATIONS:

a. Post Graduate Course on Comprehensive Rural-Regional Development Planning, Hebrew University of Jerusalem, Israel, 1965-67

b. Bachelor of Science in Agricultural Education, Visayas State College of Agriculture, 1958

c. Post Graduate Course on Rural Leadership and Agricultural Communication, University of the Philippines, College of Agriculture, Los Banos, Laguna, 1963 (18 units)

d. Post Graduate Course on Master of Science in Management, U.P. at Tacloban, 1974 (12 units)

POSITION HELD AND OTHER EXPERIENCES:

a. Chief, Program Coordiantion Division, National Economic and Development Authority (NEDA). December 16, 1974 to present (Designated Assistant Regional Executive Director of NEDA Region VIII)

b. Assistant Provincial Agriculturist, Department of Agriculture, May 19, 1964 - December 15, 1975

c. Designated Aricultural Extension Specialist. Bihaha-an Tibak Rice Research Demonstration and Production Project, Department of Agriculture, 1967-68. (A joint undertaking of the Republic of the Philippines and the Republic of China)

d. Designated Agricultural Extension Specialist, RP-Japan Demonstration Farm Project, Depatment of Agriculture, 1969-71. (A Joint undertaking of the Philippines and Japanese Governments)

e. Farm Management Technologist, Department of Agriculture, June 17, 1959- May 18, 1964

f. Teacher of Agriculture. Department of Education and Culture, June 16, 1958 - June 16, 1959

HONORS AND AWARDS RECEIVED:

a. Finished Secondary Education as First Honor, 1954

b. Graduated Bachelor of Science in Agriculture Education as HIGHEST IN SCHOLARSHIP, Visayas State College of Agriculture, 1958

c. Chosen and Awarded as Municipal Agriculturist of the Year 1961-62

d. Chosen and awarded as Outstanding Alumnus of the Visayas Agricultural College, 1968

SCHOLARSHIP RECEIVED:

a. Post Graduate Course on Comprehensive Rural Regional Development Planning 1965-67, Hebrew University of Jerusalem, Israel (Colombo Plan)

b. Group Course on Agricultural Extension Management, 1971, Japan (Colombo Plan)

c. Post Graduate Course on Rural Leadership and Agricultural Communication - 1963, UPCA, Los Banos, Laguna

GOVERNMENT SPONSORED SEMINARS AND TRAINING ATTENDED:

a. Regional Planning and Financial Programming at Cebu City, sponsored by UNDP, June 1977

b. Administrative Discipline Seminar, 1972, Tacloban City

c. Seminar-Workshop for Extension Administrators and Supervisors, 1972, Cebu City

d. Workshop in Applied Nutrition, 1968, Tacloban City

e. First Municipal Executive Seminar, 1960, Tacloban City

f. Industrial Estate Project Planning, December 1977, (UNDP Sponsored)

g. Integrated Area Development Project, February 1978 (UNDP sponsored)

h. Rice Production Training, 1973 (Sponsored by the Department of Agriculture)

MAJOR WORK EXPERIENCES:

The following are my work experiences in my capacity as a former Farm Management Technician, Former Assistant Provincial Agriculturist, Agricultural Extension Specialist of the Department of Agriculture and at present as Chief of the program Coordination Division of the NEDA:

a. Agricultural Project Identification;

b. Appraisal of Project proposal submitted by various line agencies and the private sector;

c. Monitoring project implementation (one of the main activities of the undersigned as Chief of the Program Coordination Division of NEDA, Region VIII)

d. Preparation of program/project proposals (both agricultural and non-agricultural);

e. Participated the preparation of a Comprehensive Regional Development Plan of Region VIII;

f. Hired and Assumed as Economist to the Intemodal Transpor Study of Eastern Visayas. (A two-year Study of comodity flow and transport modes)

g. Implementation fo foreign-assisted program/ projedts (Experience in working with Taiwanese and Japanese agricultural Technicians/specialist from 1967 to 1971);

h. Served as lecturer in various government-sponsonred seminars, workshops and trainings in Eastern Visayas Region. The following are the subject matters lectured in various occassions:

- Program Fomulation
- Agricultural Extension Approaches
- Economic Reforms
- Regional Development Issues and Problems
- Farm Management
- New Philippine Foreign Policy
- Development Planning
- Development Perspective

i. Coordinated Town Planning projects of Tacloban City and Ormoc City and prepared the Urban Land Use plan of Hilongos, Leyte

CIVIL SERVICE EXAMINATIONS PASSED:

PACD Worker - 1957

Provincial Agriculturist - 1964

Agricultural Extension Technologist - 1967

Junior Teacher of Agriculture - 1957

Clerical - 1956

(SGD) BALDRICH T. OCANADA

APPENDIX C

I. NEW APPOINTMENTS

A. Ad Interim

Dept. of Forestry

1. Ms. Lourdes A. Go MS in Forestry UPLB 1978	Asst. Professor I (Step 2) ₱14,568.00 p.a. Item No. 10(3) Effectivity: June 1, 1978

B. As Authorized by Board Resolution No. 6, s. 1974

Dept. of Ag. Engineering

2. Mr. Alan L. Presbitero BS in Ag. Engineering UPLB 1976	Instructor I (Step1) ₱9,756.00 p.a. Item No. 44(21) Effectivity: June 13, 1978

Dept. of Ag. Chemistry

3. Ms. Alice R. Martinez BS in Chemistry Siliman Univ. 1978	Asst. Instructor II (Step 3) ₱8,664.00 p.a. Effectivity: June 19, 1978

Dept. of Arts and Letters

4. Mr. Norberto F. Canada BS in Education CSJ-R 1974	Instructor II (Step 2) ₱11,148.00 p.a. Item No. 44(28) Effectivity: June 5, 1978

Dept. of Ag. Economics

5. Ms. Judith C. Bulawan BS in Agriculture ViSCA 1978	Asst. Instructor II (Step 1) ₱7,956.00 p.a. Item No. 123 (11) June 1, 1978

Business and Administrative Affairs

6. Ms. Nellie U. Carcallas BS in Elementary Educ. Univ. of Mindanao 1964 CS Eligibility-First Grade	Personnel Aide ₱5,964.00 p.a. Effectivity: June 16, 1978 Item No. 86
7. Ms. Milagros L. Camotin BS in Commerce Univ. of San Carlos 1967 CS Eligibility - CPA	Accounting Clerk ₱5,964.00 p.a. Item No. 91 (2) Effectivity: July 1, 1978

II. FOR PERMANENT STATUS

1. Ms. Virgenita G. Albarico CS Elligibility - Teacher Length of Service - 3 years	Instructor I Effectivity: August 1, 1978
2. Mr. Arturo M. Biscante Length of Service 2 1/2 yrs.	Driver- Messenger Effectivity: August 1, 1978

III. FOR PROMOTION/POSITION RECLASSIFICATION/SALARY ADJUSTMENT

A. Promotion/Salary Adjustment

1. Mr. Sixto P. Sandoval Present Position-Adm. Assistant I	Adm. Assistant II ₱10,776.00 p.a. Item No. 45 Effectivity: August 1, 1978
2. Ms. Sonia P. Salandanan Present Position - Clerk- Typist	Adm. Assistant I ₱9,288.90 p.a. Item No. 57 Effectivity: August 1, 1978
3. Ms. Paz C. Pala Present Position - Library Assistant	Librarian ₱10,776.00 p.a. Item No. 48 (2) Effectivity: August 1, 1978
4. Ms. Lolita U. Enriquez Present Position - Account II	Research Asst. III (Step 2) ₱10,260.00 p.a. Item No. 43 (2) Effectivity: July 1, 1978
5. Lt. Maximo M. Villalino Present Salary - ₱8,400	Security Officer ₱10,260.00 p.a. Effectivity: July 1, 1978

B. Position Reclassification

1. Ms. Iluminada C. Abihay MS in Dev. Communication Points: 54.60	Asst. Professor II (Step 3) ₱16,860.00 p.a.
2. Mr. Constancio M. Napiere MS in Plant Pathology Points: 51.25	Asst. Professor I (Step 3) ₱16,044.00 p.a.
3. Mr. Teodulo O. Milleza MS in Animal Science Points: 50.85	Asst. Professor I (Step 2) ₱15,264.00 p.a.
4. Ms. Paciencia P. Milan MS in Zoology Points: 47.90	Asst. Professor I (Step 1) ₱15,264.00 p.a.

5.	Mr. Veronico S. Subere MS. in Animal Science Points: 50.45	Instructor V (Step 1) ₱15,264.00 p.a.
6.	Ms. Avelina C. Floresca MA in Home Economics Points: 49.50	Instructor IV (Step 3) ₱15,264.00 p.a.
7.	Ms. Fredeswinda O. Lao MS in Plant Pathology Points: 47.50	Instructor IV (Step 1) ₱14,532.00 p.a.
8.	Mr. Rebecco M. Santiago MS in Horticulture Points: 47.45	Instructor IV (Step 1) ₱14,532.00 p.a.
9.	Ms. Grace B. Alo MS in Applied Nutrition Points: 47.40	Instructor IV (Step 1) ₱14,532.00 p.a.
10.	Mr. Nonilon T. Bulilan MS in Ag. Engineering Points: 47.25	Instructor IV (Step 1) ₱14,532.00 p.a.
11.	Mr. Pedro P. Pascual MS in Agronomy Points: 47.10	Instructor IV (Step 1) ₱14,532.00 p.a.
*12.	Dr. Tomas J. Fernandez, Jr. MS in Veterinary Pathology Points: 45.05	Instructor IV (Step 1) ₱14,532.00 p.a.
*13.	Ms. Antonia Cecilia D. Yap MS in Rural Sociology Points: 43.60	Instructo IV (Step 1) ₱14,532.00 p.a.
*14.	Ms. Florenda O. Labus MS in Genetic Conservation Points: 42.10	Instructor IV (Step 1) ₱14,532.00 p.a.
*15.	Mr. Ruben M. Gapasin MS in Plant Pathology Points: 40.25	Instructor IV (Step 1) ₱14,532.00 p.a.
*16.	Ms. Lutgarda H. Salares MS in Applied Nutrition Points: 44.50	Instructor III (Step 1) ₱13,152.00 p.a.

Effectivity date - upon availability of position their respective department or release of funds for upgrading purposes.

*Per Academic Personnel Board policy, the minumum rank given to MS graduate of technical field is Instructor IV.

APPENDIX D

VISAYAS STATE COLLEGE OF AGRICULTURE
Baybay, Leyte

Proposed Budget of ViSCA Research Journal
First Issue, 1978

I.	Personnel Services		
	Student Assistant (₱1.00/hr. for 150 hrs.)	₱150.00	
	Typist (₱3.00/hr. for 100 hrs.)	300.00	
	Artist/Illustrator (₱10.00/hr. for 20 hrs.)	200.00	
	Total for Personnel Services		₱ 650.00
II.	Maintenance and Operating Expenses:		
	Printing of journal	9,300.00	
	Supplies and Materials	460.15	
	Travel	1,873.50	
	Sundry	5,920.30	
	Total for Maintenance & Operating Expenses		17,553.95
III.	Equipment Outlay		7,000.00
	GRAND TOTAL		25,203.95

A. Printing of ViSCA Journal

Description: Size: 6" x 9"

124 total pages including cover

coated 200 lb. cover

Wiggins book paper (50) lb. for inside pages

Cost:

Inside pages ₱75/1000 copies/pages	120 pages	₱9,000.00
Cover ₱150/1,000 copies/pages	4 pages	300.00
Total Cost		₱9,300.00

(Estimate from G.T. Printers, Cebu)

B. Supplies and Materials

Bond paper	15.50/ream	62.00	
Mimeo paper	13.95/ream	27.90	
Onion skin paper	13.45/ream	13.45	
Carbon paper	28.00/box	28.00	
Stationery	35.00/ream	35.00	
Typewriter ribbon	10.40/spool	10.40	
Gestetner Stencil	46.50/quire	46.50	
Gestetner Ink	39.40/tube	39.40	
White envelope	22.50/box	22.50	
Brown envelope (for mailing journal)	0.15 each	75.00	
Art materials		50.00	
Miscellaneous items (Paste, ballpen, clips etc.)		50.00	
Total for Supplies and Materials			460.15

C. Travel

I. Cebu

1. Purchase supplies and materials and make arrangements with printer (4 days)

Boat fare (Baybay to Cebu and back)	46.00
Per diem for 4 days (₱35/day)	140.00
Allowance for 4 days (₱10/day)	40.00
Total for Travel	226.00

2. Bring manuscripts and instructions to printer (2 days)

Boat fare (Baybay to Cebu and back)	₱46.00	
Per diem for 2 days (₱35/day)	70.00	
Allowance for 2 days (₱10/day)	20.00	
		₱136.00

3. Get galley proofs and other materials from printer (2 days)	136.00
4. Return proofs and give final instructions to printer (3 days)	181.00
5. Get blue print from printer for final conrrections (2 days)	136.00
6. Return blue print for final printing (2 days)	136.00
7. Get 1,000 copies of journal from printer (2 days)	136.00
Sub-total	₱1,087.00

Manila

Purposes:

1. Check possibility of printing journal in Manila
2. Visit national libraries for verification and authentication of manuscripts accepted for publication to avoid article duplication

ViSCA to Tacloban and Back (College jeep)	₱200.00	
ViSCA to Manila and back (plane)	402.00	
Airport fees	4.50	
Per diem for 4 days	140.00	
Allowance for 4 days	40.00	
Sub - total		₱786.50
TOTALL		₱1,873.50

Sundry

1. Honorarium		₱1,800.00
Associate Editor	₱ 500.00	
Reviewers (2 persons at ₱50@ for 12 papers)	1,200.00	
Bookkeeper (Accountant/Business Manager)	100.00	
2. Communication		
Mailing journal (Surface mail)		230.00
local ₱0.60@ (200 copies)	120.00	
foreign ₱1.20@ (50 copies)	60.00	
(For ViSCA scholars and selected libraries abroad)		
Official communications, telegrams etc	50.00	
3. Contingency		2,488.90
4. Administrative Cost		1,401.40
Total for Sundry		₱5,920.30

Equipment Outlay

1. typewriter (1)

Description:

"OLIVETTI" Linea 98, elite type with dust cover

22" carriage ₱7,000.00

Dealer: Business Equipment Corporation

APPENDIX E

June 27, 1978

The President
Visayas State College of Agriculture
Baybay, Leyte

Sir:

The members of the Board of the ViSCA Educational Foundation, Inc, have just approved the annual budget of ₱79,600 for the operation of the ViSCA-Foundation Elementary School during school year 1978-79. This amount is bigger than last year's budget of the elementary school by ₱10,632 due to the following reasons:

1. There is a to employ a full time Kindergarter and Nursery teacher as a result of an increase in enrollment. Last year the two classes were handled by a part-time teacher.

2. The proposed 8% increase in the teachers' salary to keep abreast with the drive of the Department of Education and Culture to increase the salary of elementary school teachers, requires a bigger allotment for personal services.

3. The need to hire one more staff member who can act as head teacher, librarian and floating or substitute teacher has to be met to provide better service to the elementary school pupils.

In this connection, therefore, I wish to request for the release to the ViSCA Educational Foundation, Inc., ViSCA's contribution for the operation of the ViSCA-Foundation Elementary School in the amount of ₱39,800 which shall be distributed as follows:

1. For Budget Year 1978 - ₱19,900

2. For Budget Year 1979 - ₱19,900

In behalf of the members of the ViSCA Educational Foundation, Inc., I wish to thank you once again for your continued support to the projects of the Foundation.

Very truly yours,

(SGD) SAMUEL S. GO
Chairman, ViSCA Educational Foundation Inc.

Inc:
1978-79 Budget of the ViSCA
Fouuddation Elem. School

A True copy: bbejr

ViSCA-FOUNDATION ELEMENTARY SCHOOL

BUDGET FOR SCHOOL YEAR 1978-79

Income

I.	ViSCA Contribution	₱39,800.00
II.	Parents Contribution	14,000.00
III.	ViSCA Bakery	12,000.00
IV.	Book Service	6,000.00
V.	Coconut Project	2,000.00
VI.	Interest	4,500.00
VII.	Miscl. Income	1,300.00
	TOTAL	₱79,600.00

Expenditures

I.	Personal Services	₱62,600.00
II.	Supplies and Materials	6,000.00
III.	Travel & Staff Development	4,000.00
IV.	Library Materials and Equipment	7,000.00
	TOTAL	₱79,600.00

Details of the 1978-79 Budget

I. Personal Serivices:

Salaries of 2 teachers each ₱650/mo.	₱15,600.00
" " 6 " " 600/mo.	43,200.00
" " 2 " aides each ₱100/mo.	2,000.00
" " 1 consultant & 2 part time teachers ₱50/mo.	1,800.00
Sub-Total	₱62,600.00

II. Supplies and Materials:

Office supplies	700.00
Classroom supplies	1,300.00
Supplies for preparation of teaching aids	2,000.00
Kindergarten & Nursery Snacks	2,000.00
Sub-Total	₱6,000.00

III. Travel & Staff Development:

Tacloban to attend conferences	400.00
Various seminars	1,600.00
Demonstration teaching	600.00
Summer program	1,400.00
Sub-Total	4,000.00

IV. Library Materials and Equipment:

Tablet Chairs	₱1,200.00
Teachers Tables	800.00
Cabinets	2,400.00
Bllks & Newpapers	2,600.00
Sub-Total	₱7,000.00
GRAND TOTAL	₱79,600.00

A True Copy:

B. B. Estabillo, Jr.

APPENDIX F

SUMMARY OF CHANGES ON THE PROPOSED BACHELOR OF ANIMAL SCIENCE CURRICULUM

A. On the Total Number of Credit Units

The total number of credit units for the General Education courses is now 75, instead of 74. The increase of 1 was due to the required subject, Land Reform and Taxation, which is now a 3-unit course.

So, the total number of credit units for the BAS curriculum is now 159, instead of 158.

Note: The negative sign (-) after the subject Anat. & physiol in the former proposal created confusion among the Trustees. As also indicated, it was under Major Courses; but it is a fundamental course under the proposed curriculum. This now properly indicated under Fundamental Courses, page 14.

B. On the Course Schedule

The course schedule for the first and second semesters of the first year; summer after the first year; and the first semester of the second year has been adjusted to conform with the course schedules of the other degree programs of the College.

Specifically, Sta 11 had to replace Social Science 11 which had to replace An Sci 31, a laboratory subject to lessen the summer load of the second year students, page 16.

C. On the Overlapping of Course Contents

1. An Sci 31, Feeds and Feeding and An Sci 41, Animal Nutrition, while closely related, do not overlap in course content, pages 19 & 20. There was no change made in these subjects.

2. An Hlt 42 and An Hlt 48 did have contents that overlapped. The content - Major diseases of farm animals - was deleted from An Hlt 42, General Veterinary Medicine. On the other hand, the content - prevention and control - was also deleted from An Hlt 48, page 21.

3. An Sci 44, Incubation was changed to Incubation and Hatchery Management to make it more concise a tittle for its proposed contents, page 22.

CURRICULAR PROPOSAL

Title: BACHELOR OF ANIMAL SCIENCE

Proponent: DEPARTMENT OF ANIMAL SCIENCE AND VETERINARY MEDICINE
Baybay, Leyte

Rationale:

At its present status, the animal industry in the country, particularly that of the countryside, cannot yet afford to hire the services of professional veterinarians. This situation may explain the absence of veterinary practitioners for livestock and poultry in the rural areas even though their services are badly needed. Escudero (1976) stated that about 50 percent or more of the animals raised by backyard raisers die before reaching market age. In consonance with the recent efforts of the government to promote and accelerate the establishment of the animal industry, the services for animal health along with the husbandry aspects of animal production must be provided to the producers.

The present BSA curriculum has many major fields including Animal Husbandry and Animal Protection. However, within the limits of the curriculum which has a ceiling of 159 units, it is not possible to have more than 6 units of fundamental Animal Science courses and 37 units of major courses. As such, the major fields still lack in-depth subject matter coverage of other basic and specialized areas of Animal Husbandry and Animal Health necessary for on-the-farm and countryside work. This limitation, particularly that of the Animal Protection major was pointed out by Mr. Richard K. Johanson, Chief of the Education Projects Division for East Pacific Region of the World Bank in his letter to EDPITAF. In view of this, it is desirable to offer a separate curriculum with Animal Husbandry and Animal Health majors to provide the industry with adequately trained manpower.

The proposed Bachelor of Animal Science (BAS) has 9 units of fundamental Animal Science courses and 54 units of major courses. The specialization in Animal Health includes 36 units of major veterinary science courses and 18 units of major Animal Science courses, while the specialization in Animal Husbandry includes 36 units of major Animal Science courses, 9 units of Veterinary Science courses and 9 units of major electives which include Agricultural Economics. The inclusion of Agricultural Economics will give the students a better background on managerial skills. Moreover, the proposed curriculum affords opportunity to specialize in certain commodities such as poultry production, swine production and ruminant production. Thus, a student who may specialize in poultry production will have 9 units more of poultry production courses and/or the related major electives than majors in other commodities. It also provides adequate technical orientation to prepare the graduates for animal farming operations.

During the workshop on "Education in Animal Science" held at UPLB on September 7, 1977, representatives of the major employers of the graduates of the proposed curriculum, namely, the Bureau of Animal Industry and the National Meat Inspection Commission, expressed their need for 600 to 800 livestock and poultry technologists and veterinary assistants and about 10,000 livestock and meat inspectors in the next 5 years. The representatives from the private and commercial farms have also indicated their preference for graduates of this program to be employed as herdsmen, veterinary assistants and farm managers. A survey (1976) conducted by ViSCA in the Visayas revealed that Regions VI, VII, and VIII alone would need 1,250 graduates with specialization related to animal science. The graduates from the proposed curriculum can also be employed as research assistants, teachers in agricultural schools and colleges,

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Escudero, S.H. III (1976). An assessment of the levels of Technology

sales representatives of companies carrying veterinary products and other related employment. To meet the foregoing demand for technical manpower, the Department feels that the institution of Bachelor of Animal Science (BAS) with majors in Animal Health and Animal Husbandry is necessary.

Apparently, the time and cost constraints in obtaining a 6-year degree in Doctor of Veterinary Medicine further suggests that offering specialization in Animal Health as a major in a 4-year degree course (BAS) to meet the needs of farmers in the countryside is more advantageous to developing countries like the Philippines.

The option of students to undertake theses work or farm practice is offered only to students majoring in Animal Health. The Animal Husbandry majors are required to conduct theses in order to avoid an overlap with the Agribusiness program which offers farm practice for students who major in Livestock Enterprise Management. Furthermore, students who opt for farm practice in the Agribusiness curriculum choose advisers from their own department with co-adviser from the staff of the Department of Animal Science and Veterinary Medicine.

Objectives:

1. To produce graduates to meet the manpower requirement of the poultry and livestock industry.

2. To train researchers and technologists in the field of Animal Husbandry and Animal Health.

PROJECTED ENROLMENT FOR THE ANIMAL HUSBANDRY AND ANIMAL HEALTH MAJOR FIELDS

Assumptions:

a. About 70% utilization of laboratory rooms for instruction with a capacity of 30 students per room. Therefore each laboratory room will be utilized 7 out of 10 possible laboratory sessions per week;

b. Major specialization will start on the second semester of the second year;

c. Proportion of drop outs: 10% every year;

d. Equal number of major students will enroll in each major field (30 students in each field or a maximum of 70 starting on the 4th year, SY 1981-'82).

PROJECTED ENROLMENT OF MAJOR STUDENTS FOR 5 YEARS

School Year	No. of Students Enrolled in Service Subject	YEAR			
		2nd	3rd	4th	Total
1978-'79	347	30	-	-	30
1979-'80	427	40	27	-	67
1980-'81	452	60	36	24	120
1981-'82	463	70	54	32	156
1982-'83	523	70	63	49	182

Note: Projection is based on the revised projected enrolment of WISCA from the Office of DOPD.

PROJECTED FACULTY REQUIREMENTS

Assumptions:

a. The semester (1st or 2nd) with more teaching staff requirement will be the basis for projecting the yearly requirement.

b. Total workload unit is calculated based on WISCA's computation guide for Academic Staff Workload (a minimum of 17 total workload units).

FACULTY REQUIREMENT FOR 5 YEARS
(Full-time Equivalent)

	1978-'79	1979-'80	1980-'81	1981-'82	1982-'83
Teaching Load	4.17	3.62	13.4	12.41	15.4
Research	.18	.71	1.4	2.6	2.94
Extension	1.41	2.11	2.11	2.11	2.11
Faculty Development	5.0	6.0	5	8	8
Administrative	1.53	1.82	2.71	3.0	3.23
Total	12.29	17.96	24.62	27.22	32.68

FACILITIES:

A. Laboratory* (adequately equipped under the WB Assistance Program)
   a.1. Anatomy and Physiology - 1 unit, area - 90 m^2
   a.2. Parasitology - 1 unit, area - 90 m^2
   a.3. Infectious Disease and Diagnostic - 1 unit, area - 120 m^2
   a.4. Breeding & Genetics - 1 unit, area - 90 m^2
   a.5. Nutrition - 1 unit, area - 120 m^2
   a.6. Dairy Research - 1 unit, area - 120 m^2
   a.7. Product Processing - 1 unit, area - 120 m^2
   a.8. Research Laboratory (for precision and delicate instruments) - 1 unit, area 90 m^2
   a.9. Slaughter House - 1 unit, area - 90 m^2
   a.10 Cold Storage - 1 unit, area - 20 m^2

B. Classroom and other types of facilities*
   b.1. Lecture Hall - 1 unit, area - 120 m^2
   b.2. Classroom - 1 unit, area - 65 m^2
   b.3. Seminar room - 1 unit, area - 60 m^2
   b.4. Library - 1 unit, area 100 m^2
   b.5. Offices (Faculty and Head)
   b.6. Others such as maintenance, preparation and storages rooms, etc.

C. Field Houses*
   c.1. Feed Mill - 1 unit, area - 300 m^2
   c.2. Field laboratory houses - 3 units, area of 60 m^2 each
   c.3. Small animal and experimental animal shed - 1 unit, area - 250 m^2

D. Field Projects
   d.1. Broiler House - 1 unit
   d.2. Layer House - 1 unit
   d.3. Duck House and Pond - 1 unit
   d.4. Rabbit House - 1 unit
   d.5. Piggery House - 2 units
   d.6. Incubating and Brooding House* - 1 unit
   d.7. Breeder House* - 1 unit
   d.8. General Purpose Goat Barn - 1 unit
   d.9. Buck and Rearing Barn* - 1 unit
   d.10 Milk House - 1 unit, area - 40 m^2
   d.11 Cattle Shed - 1 unit, area - 250 m^2
   d.12. Several more under consideration.

E. Pasture and Reservation - 111 hectares

* Construction will start in mid 1978.

DESIRED PROFILE OF STAFF STRENGTH ON THE 5TH YEAR (1982-'83)

Approaches:

a. Strong faculty development program through ViSCA Fellowship, WB Technical Assistance, Colombo Plan, PCARR Scholarship and other scholarship programs.
b. Strong recruitment program.
c. Adequate instruction, research and extension facilities.
d. Competitive salary scale.

1976 - 1983

Strength		Present Staff Strength				Recruitment		Plan For Future Studies		
zation	Degree	Staff Member	Degree	Start Date	Completion Date	Date	Degree	Start Date	Completion Date	Degree
eding	Ph.D.	V. F. Floresca	MS	June '75	May '78					
on	MS	S. T. Parrilla	BS	Nov. '75	Oct '79					
on	MS	M.E. P. Tibon	BS	June '78	May '80					
	MS	T. O. Milleza	BS	June '75	Oct '77					
	MS					Nov. '83	MS			
	MS	S. C. Bantugan	BS	Nov. '75	May '78			June '80	May '83	Ph.D.
	MS					June '81	MS			
	Ph.D.	O. B. Posas	MS	Aug. '77	Nov. '80					
	MS	V. S. Subera	MS	Nov. '74	Apr '78					
siology	Ph.D.	G. R. Gerona								
siology	MS					June '83	MS			
	Ph.D.	S. L. Sanchez	Ph.D.	Feb. '77	May '80					
	Ph.D.					June '79	MS	Nov. '81	Oct '84	Ph.D.
	MS					Nov '81	BS	June '83	May '85	MS
s	Ph.D.					Nov '79	MS	June '81	May '84	Ph.D.
s	MS					June '81	MS			
	MS	M. C. Tañgonan	BS	June '78	May '80			Nov '82	Oct '85	Ph.D.
	MS					Nov. '80	BS	June '83	May '85	MS
	MS					June '80	MS			
gy	MS					Nov. '82	BS			
	MS					Nov. '82	MS			
list	MS					June '79	MS			
list	MS					June '81	MS			
	Ph.D.	T. J. Fernandez, Jr.	DVM	June '76	May '78			June '81	May '84	Ph.D.
	MS					Nov. '80	MS			
	MS	R. M. Amarille	DVM	Feb '77	May '80					
	Ph.D.					June '79	MS	June '81	May '84	Ph.D.
y	MS					June '82	MS			
gy	MS					Nov. '79	DVM	June '81	May '83	Ph.D.
gy	MS					Nov. '82	MS			
ysiology	MS					Nov. '80	MS	June '83	May '86	Ph.D.
gy	MS					Nov. '79	BS	Nov. '81	Oct. '83	MS

	Existing Units	Proposed Units
I. General Education Courses:	75	75
II. Fundamental Courses:	47	30
A. Social Sciences:		
a.1. AG. ECON. 21 - Farm Management	(3)	(3)
a.2. AG. EXT. 21 - Ag. Ext. Teaching	(3)	(3)
B. Physical Sciences:		
b.1. CHEM. 21 - Biochemistry	(3)	(3)
b.2. SOILS 21 - Fund. Soils & Fert.	(3)	(3)
b.3. SOILS 22 - Soils Fert.	(3)	(-)
b.4. AG. ENG. 20 - Irrig. Drainage & Met.	(3)	(-)
b.5. AG. ENG. 21 - Farmshop Practice	(2)	(-)
b.6. AG. ENG. 22 - Farm Mach. & Equipt.	(3)	(-)
C. Plant Sciences:		
c.1. AGRONOMY 21 - Fund. Crop Prod.	(3)	(3)
c.2. HORTI. 22 - Gen. Horti.	(3)	(-)
D. Animal Sciences:		
d.1. Prin. of An. Sci. I	(3)	(3)
d.2. Prin. of An. Sci. II	(3)	(3)
d.3. Anat. & Physiol Farm Animals	(-)	(3)
E. Others:		
e.1. AG. BOT. 21 - Prin. Genetics	(3)	(3)
e.2. MICRO 21 - Gen. Micro	(3)	(3)
e.3. CROP PROT 21 - Prin. Crop Prot.	(3)	(-)
e.4. CROP PROT 22 - Pest Control	(3)	(-)
III. Major Courses:		
A. Animal Protection major (Animal Health major)	37	54
a.1. Animal Sciences		
a.1.1. Feeds and Feeding	(3)	(3)
a.1.2. Anat.& Physiol of Farm Animals	(3)	(-)*
a.1.3. System Physiol	(3)	(3)
a.1.4. Poultry Production	(-)	(3)
a.1.5. Swine Production	(-)	(3)
a.1.6. Ruminant Production	(-)	(3)
a.1.7. Animal Nutrition	(-)	(3)
a.1.8. Lvstk & Pltry Prod & By-Products	(-)	(3)
a.2. Animal Protection (Animal Health)		
a.2.1. Pathogenic Microorganism	(3)	(3)
a.2.2. Animal Disease Control	(3)	(3)
a.2.3. Epidemeology	(3)	(-)
a.2.4. Animal Parasitology	(3)	(3)
a.2.5. Vet. Pharm & Pharmacology	(3)	(2)
a.2.6. Nutritional Def. Dis.	(3)	(-)
a.2.7. Animal Health and Management	(3)	(3)
a.2.8. Advanced Anatomy	(-)	(3)
a.2.9. General Pathology	(-)	(3)
a.2.10 Food Hygiene & Public Health	(-)	(2)
a.2.11 Diagnostic Procedure	(-)	(1)
a.2.12 Undergraduate Seminar	(1)	(1)
a.2.13 Thesis/Field Practice	(6)	(6)
a.2.14 Gen. Vet. Medicine	(-)	(3)

* Fundamental course in the proposed curriculum.

B.	Animal Husbandry major	37	54
b.1.	Animal Science courses (36 units)		
b.1.1	Feeds and Feeding	(3)	(3)
b.1.2.	Anat & Physiol Farm Animals	(3)	(-)*
b.1.3	Poultry Production	(3)	(3)
b.1.4	Swine Production	(3)	(3)
b.1.5	Ruminant Production	(3)*	(3)
b.1.6	Animal Nutrition	(3)	(3)
b.1.7	Prin Animal Breeding	(3)	(3)
b.1.8	Dairy Production	(3)*	(3)
b.1.9	Livestock Selection	(-)	(2)
b.1.10	Livestock & Poultry Products and By-Products	(3)*	(3)
b.1.11	Behavior and Ecology of Farm Animals	(-)	(3)
b.1.12	Undergraduate Seminar	(1)	(1)
b.1.13	Thesis	(6)	(6)
b.2.	Animal Protection (Animal Health) Courses (9 Units)		
b.2.1	Animal Dis. Control	(3)	(3)
b.2.2	Animal Parasitology	(3)*	(3)
b.2.3	Animal Health and Management	(-)	(3)
b.3.	Major Elective Courses (9 Units)		
b.3.1	Poultry Management	(-)	(3)
b.3.2	Poultry Breeding & Reproduction	(-)	(3)
b.3.3	Incubation	(-)	(3)
b.3.4	Swine Management	(-)	(3)
b.3.5	Swine Breeding & Reproduction	(-)	(3)
b.3.6	Feedlot and Range Management	(-)	(3)
b.3.7	Dairy Products	(-)	(3)
b.3.8	Pasture and Forage Crops	(-)	(3)
b.3.9	Principles of Accounting	(-)	(3)
b.3.10	Farm Finance	(-)	(3)

III

SUMMARY OF COMPARATIVE COURSE ANALYSIS

I.	General Education Courses	75	75
II.	Fundamental Courses	47	30
III.	Major Courses	37	54
	Total Units	159	159

ABOLITION, MODIFICATION AND INSTITUTION OF COURSES

Rationale:

The proposed institution of a Bachelor of Animal Science (BAS) with majors in Animal Health and Animal Husbandry to replace the existing Bachelor of Science in Agriculture (BSA) with majors in Animal Protection and Animal Husbandry necessitates the restructuring of courses in order to strengthen the curricular program. To accomplish this, the Department has to abolish or modify some courses in the existing program (BSA) in terms of course title, course number, and course description. Likewise new ones have to be instituted. The courses proposed for institution take into account the subjects recommended by the workshop group on "Education in Animal Science" held at UPLB on September 7, 1977. The workshop was participated in by representatives from the Office of the Director of BAI, National Meat Inspection Commission (NMIC), UPLB, ViSCA, Philippine Veterinary Medical Association (PVMA). UP College of Veterinary Medicine and representatives from private sectors.

I. Abolition:

AN. PROT. 46 - NUTRITIONAL DEFICIENCY DISEASES - Nutritional deficiency; susceptibility of malnourished animals to diseases.

Prerequisite: An. Sci. 33
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

AN. PROT. 43 - EPIDEMEOLOGY - Principles of epidemeology of poultry and livestock diseases.
Prerequisite: An. Prot. 32
3 hours/week (lec.)
Credit: 3 Units

AN. PROT. 45 - VETERINARY PHARMACY AND PHARMACOLOGY - Prescription, preparation and administration of drugs.
Prerequisite: Chem. 21 & An. Sci. 36
5 hours/week (2 lec., 3 lab.) Credit: 3 Units

II. Modification and/or change of either course title, number, descriptive title or course description.

A. Animal Health major:

a.1. AN. SCI. 36 - SYSTEMS PHYSIOLOGY - Body systems with emphasis on digestion and absorption; intermediary metabolism and energy exchange; body fluid; endocrine systems.

Prerequisite: Chem. 21 and An. Sci. 35
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

TO READ:

AN. HLT. 37 - SYSTEMS PHYSIOLOGY - Digestive, urinary, endocrine and other systems; body fluids.

Prerequisite: An. Sci. 24
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

a.2. AN. PROT 32 - PATHOGENIC MICROORGANISMS - Isolation, management, biochemical characteristics and diagnosis, transmission and immunology.

Prerequisite: Micro 21
7 hours/week (1 lec., 6 lab.)
Credit: 3 Units

TO READ:

AN. HLT. 38 - PATHOGENIC MICROOGANISMS - Biology and control of common bacterial, fungal and viral pathogens.

Prerequisite: Micro 21
7 hours/week (1 lec., 6 lab.)
Credit: 3 Units

a.3. AN. PROT 36 - ANIMAL DISEASE CONTROL - Principles of livestock health and sanitation. Prevention and control of common livestock and poultry diseases.

Prerequisite: An. Sci. 35 & Micro 21

TO READ:

AN. HLT. 35 - ANIMAL DISEASE CONTROL - Principles of livestock health and sanitation, epidemeology, prevention and control of diseases of farm animals, and immunology.

Prerequisites: An. Sci. 24 and Micro 21
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

a.4. AN. PROT 44 - ANIMAL PARASITOLOGY - Morphology and ecology of common animal parasites; prevention and control.

Prerequisite: An. Sci. 35
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

TO READ:

AN. HLT. 36 - ANIMAL PARASITOLOGY - Morphology, life cycles and ecology of parasitic arthropods, helminths & protozoa; and their pathogenesis and control.

Prerequisite: An. Sci. 24
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

a.5 AN. PROT 48 - ANIMAL HEALTH AND MANAGEMENT - Relationships of housing, equipment, feeding and population control and other management practices with animal health.

Prerequisite: An. Prot. 43
3 hours/week (3 lec.)
Credit: 3 Units

TO READ:

AN. HLT. 46 - ANIMAL HEALTH AND MANAGEMENT - Management

a.6. AN. PROT 99 - UNDERGRADUATE SEMINAR

Credit: 1 Unit

TO READ:

AN. HLT. 99 - UNDERGRADUATE SEMINAR

Credit: 6 units

a.7. AN. PROT 100 - UNDERGRADUATE THESIS

Credit: 6 Units

TO READ:

AN. HLT. 100 - UNDERGRADUATE THESIS

Credit: 1 Unit

B. Animal Husbandry major:

b.1. AN. SCI. 21 - PRINCIPLES OF ANIMAL SCIENCE I - Fundamentals of anatomy and physiology, genetics, reproduction, endocrinology, lactation, digestion, nutrition, and animal health.

Prerequisite: Zool. 11
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

TO READ:

AN. SCI. 21 - PRINCIPLES OF ANIMAL SCIENCE I - Fundamentals of anatomy and physiology, genetics, reproduction, endocrinology, lactation, digestion, nutrition, growth, environmental physiology and animal health.

Prerequisite: Zool. 11
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units.

b.2. AN. SCI. 31 - POULTRY PRODUCTION - Commercial poultry production including incubation and hatchery practices, economics of production and project proposals.

Prerequisite: An. Sci. 22
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

TO READ:

AN. SCI. 32 - POULTRY PRODUCTION - Principles and practices of poultry production; brooding, rearing, culling and selection, feeding, including waste disposal and marketing.

b.3. AN. SCI. 32 - SWINE PRODUCTION - Feeding and management practices of commercial swine enterprise, economics of production and project proposals.

Prerequisite: An. Sci. 22
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

TO READ:

AN. SCI. 33 - SWINE PRODUCTION - Principles and practices in swine production including waste disposal and marketing.

Prerequisite: An. Sci. 22
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

b.4. AN. SCI. 42 - ANIMAL NUTRITION - Functions and metabolism of various nutrients, nutritive value required for maintenance, growth, reproduction, lactation and other bodily functions of farm animals.

Prerequisite: An. Sci. 33 and Chem. 21
Credit: 3 Units
5 hours/week (2 lec., 3 lab.)

TO READ:

AN. SCI. 41 - ANIMAL NUTRITION - Functions and metabolism of various nutrients, metabolic disorders and nutritional requirements of farm animals.

Prerequisite: An. Sci. 31 and Chem. 21
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

b.5. AN. SCI. 41 - CARABEEF AND BEFF PRODUCTION - Principles and practices of carabeef and beef production.

Prerequisite: An. Sci. 22
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

TO READ:

AN. SCI. 35 - RUMINANT PRODUCTION - Principles and practices of carabeef, beef and chevon production (horse included).

Prerequisite: An. Sci. 22
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

b.6. AN. SCI. 46 - PROCESSING OF LIVESTOCK AND POULTRY PRODUCTS AND BY-PRODUCTS - Slaughtering, carcass fabrication processing and preservation of meat, milk and poultry and their by-products.

Prerequisite: An. Sci. 35 and Micro 21
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

TO READ:

AN. SCI. 34 - LIVESTOCK AND POULTRY PRODUCTS AND BY-PRODUCTS - Live animal evaluation and inspection and slaughtering; fabrication, processing and pre-

III. INSTITUTION OF THE FOLLOWING COURSES:

A. Animal Health major:

a.1. AN. HLT. 35 - ADVANCED ANATOMY - Gross and microscopic study of organs and tissues of farm animals.

Prerequisite: An. Sci. 24
7 hours/week (1 lec., 6 lab.)
Credit: 3 Units

a.2. AN. HLT. 41 - GENERAL PATHOLOGY - Principles of veterinary pathology; body reactions to etiologic agents; postmortem examination.

Prerequisite: An. Hlt. 38
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

a.3. Pub HLT. 41 - FOOD HYGIENE AND PUBLIC HEALTH - Handling of meat, egg, milk and their by-products; food poisoning; zoonoses. Regulations and legislations.

Prerequisite: An. Hlt. 36 and 38
5 hours/week (1 lec., 3 lab.)
Credit: 2 Units

a.4. AN. HLT. 42 - GENERAL VETERINARY MEDICINE - Differential diagnosis of major diseases, treatment & control.

Prerequisite: An. Hlt. 34
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

a.5. AN. HLT. 43 - ELEMENTARY PHARMACOLOGY - Indications and mode of actions of common drug preparations of their toxicity.

Prerequisite: An. Sci. 24
2 hours/week (lec.)
Credit: 2 Units

a.6. AN. HLT. 48 - DIAGNOSTIC PROCEDURE - Theories and methods of laboratory diagnosis.

Prerequisite: Zool. 11
3 hours/week (lab.)
Credit: 1 Unit

a.7. AN. HLT. 100a- FIELD PRACTICE
Credit: 6 Units

B. Animal Husbandry major:

b.1. AN. SCI. 39 - LIVESTOCK SELECTION - Evaluation of productive merits of individual animals with emphasis on swine and dairy.

Prerequisite: An. Sci. 22
4 hours/week (1 lec., 3 lab.)
Credit: 2 Units

b.2. AN. SCI. 48 - BEHAVIOR AND ECOLOGY OF FARM ANIMALS - Behavior of farm animals and principles of environmental

b.3. AN. SCI. 42 - POULTRY MANAGEMENT - Management requirements of various ages of layers, broilers and ducks with emphasis on housing and other ecological consideration.

Prerequisite: An. Sci. 32
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

b.4. AN. SCI. 43 - POULTRY BREEDING AND REPRODUCTION - Genetic factors affecting economic traits; methods of breeding; physiology of egg production.

Prerequisite: An. Sci. 37
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

b.5. AN. SCI. 44 - INCUBATION AND HATCHERY MANAGEMENT - Principles of incubation; types, and operation of incubators; fertility; embryonic development, sexing; and other hatchery management practices.

Prerequisite: An. Sci. 32
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

b.6. AN. SCI. 45 - SWINE BREEDING AND REPRODUCTION - Genetic factors affecting economic traits; methods of breeding; physiology of reproduction.

Prerequisite: An. Sci. 37
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

b.7. AN. SCI. 46 - SWINE MANAGEMENT - Management requirements of various classes and ages of swine with emphasis on housing and ecological considerations.

Prerequisite: An. Sci. 33
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

b.8. AN. SCI. 47 - FEEDLOT AND RANGE MANAGEMENT - Feedlot and range operations including stocking, feeding, and pasture establishment; soil and water conservation; waste disposal; equipment.

Prerequisite: An. Sci. 35
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

b.9. AN. SCI. 49 - DAIRY PRODUCTS - Principles of processing milk and milk products; milk industry and markets.

Prerequisite: An. Sci. 38
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

COURSE ANALYSIS

I. GENERAL EDUCATION - 75 units

A. Humanities - 27 units

			Units
Humanities	11	Introduction to Humanities	3
English	11	Communication Skills I	3
English	12	Communication Skills II	3
English	13	Writing the Scientific Paper	3
Spanish	11	Communication Skills I	3

B. Physical Sciences - 21 Units

Math.	11	College Algebra	3
Math.	12	Plane Trigonometry	3
Physics	11	General Physics I	3
Physics	12	General Physics II	3
Chem.	11	General Chemistry I	3
Chem.	12	General Chemistry II	3
Statistics	11	Elementary Statistics	3

C. Biological Sciences - 9 units

Biology	11	General Biology	3
Botany	11	General Botany	3
Zoology	11	General Zoology	3

D. Social Sciences - 18 units

Educ.	11	General Psychology	3
Educ.	12	General Sociology	3
Econ.	11	General Economics	3
Soc. Sci.	11	Phil. Hist. & Institutions	2
Soc.Sci.	13	Life and Works of Rizal	3
Econ.	12	Land Reform and Taxation	3

II. FUNDAMENTAL COURSES - 30 units

A. Social Sciences - 6 units

Ag. Econ.	21	Farm Management	3
Ag. Ext.	21	Agricultural Extension Teaching	3

B. Physical Sciences - 6 units

Chemistry	21	General Biochemistry	3
Soils	21	Fundamentals of Soils & Fert.	3

C. Plant Sciences - 3 units

Agron.	21	Fundamentals of Crop Production	3

D. Others - 6 units

Micro.	21	General Microbiology	3
Ag. Bot.	21	Prin. Genetics	3

E. Animal Sciences - 9 units

An. Sci.	21	Principles of Animal Science I	3
An. Sci.	22	Principles of Animal Science II	3
An. Sci.	24	Anatomy & Physiol of Farm Animals	3

III. MAJOR CORE COURSES - 27 units

A. Animal Sciences - 18 units

An. Sci.	31	Feeds and Feeding	3
An. Sci.	32	Poultry Production	3
An. Sci.	33	Swine Production	3
An. Sci.	34	Lvstk & Poultry Prod. and By-Products	3
An. Sci.	35	Ruminant Production	3
An. Sci.	41	Animal Nutrition	3

B. Animal Health - 9 units

An. Hlt.	34	Animal Disease Control	3
An. Hlt.	36	Animal Parasitology	3

IV. MAJOR COURSES - 27 units (Animal Health)

An. Hlt.	37	System Physiology	3
An. Hlt.	35	Advanced Anatomy	3
An. Hlt.	38	Pathogenic Microorganisms	3
An. Hlt.	41	General Pathology	3
An. Hlt.	42	Gen. Vet. Med.	3
Pub Hlt.	41	Food Hygiene and Public Health	2
An. Hlt.	48	Diagnostic Procedure	1
An. Hlt.	99	Seminar	1
An. Hlt.	100/100a	Field Practice/Undergraduate Thesis	6
An. Hlt.	43	Elementary Pharmacology	2

V. MAJOR COURSES - 27 units (Animal Husbandry)

A. Required - 18 units

An. Sci.	38	Dairy Production	3
An. Sci.	39	Livestock Selection	2
An. Sci.	40	Behavior and Ecology of Farm Animals	3
An. Sci.	99	Seminar	1
An. Sci.	100	Undergraduate Thesis	6
An. Sci.	37	Prin. Animal Breeding	3

B. Electives - 9 units

An. Sci.	42	Poultry Management	3
An. Sci.	43	Poultry Breeding and Reproduction	3
An. Sci.	44	Incubation and Hatchery Management	3
An. Sci.	45	Swine Breeding and Reproduction	3
An. Sci.	46	Swine Management	3
An. Sci.	47	Feedlot and Range Management	3
An. Sci.	49	Dairy Products	3
Agron.	44	Pasture and Forage Crops	3
Ag. Econ	41	Principles of Accounting	3
Ag. Econ	33	Farm Finance	3

SUMMARY:

	Major Field	
	Animal Husbandry	Animal Health
General Education Courses	75	75
Fundamental Courses	30	30
Major Core Courses	27	27
Major Courses (Required)	18	27
Major Electives	9	0
	159	159

BACHELOR IN ANIMAL SCIENCE

COURSE SCHEDULE

FIRST YEAR

1st Semester

		Lec	Lab	Units
ENG. 11	(Com. Skills I)	3	0	3
MATH. 11	(Col. Algebra)	3	0	3
EDUC. 11	(Gen. Psych.)	3	0	3
BIOL. 11	(Gen. Biol.)	2	3	3
ECON. 11	(Gen. Econ.)	3	0	3
CHEM. 11	(Gen. Chem. I)	2	3	3
MIL.SCI. 11/Euthenics 11				(1.5/1)
P.E. 11				(2)
				18

2nd Semester

ENGL. 12	(Com. Skills II)	3	0	3
MATH. 12	(Plane Trigo)	3	0	3
EDUC. 12	(Gen. Socio)	3	0	3
BOT. 11	(Gen. Botany)	2	3	3
ZOO. 11	(Gen. Zoology)	2	3	3
CHEM. 12	(Gen. Chem. II)	2	3	3
MIL. SCI. 12/Euthenics 12				(1.5/1)
P.E. 12				(2)
				18

Summer

HUMANITIES 11	(Intro to Humanities)	3	0	3
STAT. 11	(Elem. Statistics)	2	3	3
				6

SECOND YEAR

1st Semester

SPEECH 11	(Effective Speech)	3	0	3
AN.SCI. 21	(Prin. of Animal Science I)	2	3	3
AGRON. 21	(Fuud. Crop. Prod.)	2	3	3
PHYSICS 11	(Gen. Physics I)	2	3	3
ECON. 12	(Land Reform & Tax.)	3	0	3
ENGL. 13	(Writing Sc. Paper)	3	0	3
CHEM. 21	(Gen. Biochem)	2	3	3
MIL. SCI. 21/Euthenics 21				(1.5/1)
P.E. 13				(2)
				21

2nd Semester

SPANISH 11	(Com. Skills I)	3	0	3
AN. SCI.22	(Prin. An. Sci. II)	2	3	3
AN.SCI. 24	(Anat. & Physiol.)	2	3	3
PHYSICS 12	(Gen. Physics II)	2	3	3
MICRO. 21	(Gen. Micro.)	2	3	3
SOILS 21	(Fund. Soils & Fert.)	2	3	3
MIL SCI 22/Euthenics 22				(1.5/1)
P.E. 14				(2)
				18

Summer

SOC SCI 11	(Phil. Hist. & Institution)	3	0	3
AG. BOT. 21	(Prin. Genetics)	2	3	3

COURSE SCHEDULE FOR ANIMAL HEALTH MAJOR

THIRD YEAR

1st Semester		Lec.	Lab.	Units
AN. SCI. 33	(Swine Production)	2	3	3
AN. HLT. 35	(Advanced Anatomy)	1	6	3
SPAN. 12	(Com. Skills I)	3	0	3
AN. HLT. 37	(Systems Physiology)	2	3	3
SOC SCI 13	(Life Work - Rizal)	3	0	3
AN. SCI 31	(Feeds and Feeding)	2	3	3
				18

2nd Semester				
AN. HLT 34	(An. Dis. Control)	2	3	3
AN. SCI 32	(Poultry Production)	2	3	3
AN. HLT 36	(An. Parasitology)	2	3	3
AN. HLT 38	(Patho. Microorganisms)	1	6	3
AG. ECON 21	(Farm Management)	2	3	3
SPAN. 13	(Read. Lit. I)	3	0	3
AN. HLT 100	(Undergraduate Thesis)			1
				19

FOURTH YEAR

1st Semester				
SPANISH 14	(Read. Lit. II)	3	0	3
AG. EXT 21	(Ag. Ext. Teach.)	3	0	3
AN. HLT 41	(Gen. Pathology)	2	3	3
AN. SCI 41	(An. Nutrition)	2	3	3
AN. SCI 35	(Ruminant Production)	2	3	3
AN. HLT 43	(Elem. Pharmacology)	2	0	2
AN. SCI 100	(Undergraduate Thesis)			1
				18

2nd Semester				
AN. HLT 42	(Gen. Vet. Med.)	2	3	3
AN. HLT 46	(An. Hlt. and Mgt.)	3	0	3
AN. HLT 48	(Diagnostic Procedure)	0	3	1
PUB HLT 31	(Food Hygiene & Pub. Hlt.)	1	3	2
AN. SCI 34	(Lvstk & Poultry Prod. & By-Products)	2	3	3
AN. HLT 99	(Undergraduate Seminar)			1
AN. HLT 100	(Undergraduate Thesis)			4
				17

COURSE SCHEDULE - ANIMAL HUSBANDRY

THIRD YEAR

1st Semester				
AN. SCI 33	(Swine Production)	2	3	3
AN. SCI 32	(Poultry Production)	2	3	3
SPAN. 12	(Com. Skills II)	3	0	3
AN. SCI 35	(Ruminant Production)	2	3	3
AN. SCI 39	(Livestock Selection)	1	3	2
SOC SCI 13	(Life Work - Rizal)	3	0	3
AN. SCI 31	(Feeds and Feeding)	2	3	3
				20

2nd Semester				
AN. SCI 37	(Prin. An. Breeding)	2	3	3
AN. HLT 37	(An. Dis. Control)	2	3	3
AG. ECON 21	(Farm Management)	2	3	3
SPAN. 13	(Read. Lit. I)	3	0	3
AN. HLT 36	(An. Parasitology)	2	3	3
AN. SCI 38	(Dairy Production)	[illegible]	[illegible]	[illegible]

FOURTH YEAR

1st Semester

SPANISH	14	(Read. Lit. II)	3	0	3
AN. SCI.	41	(An. Nutrition)	2	3	3
AG. EXT.	21	(Ag. Ext. Teaching)	3	0	3
AN. SCI.	34	(Lvstk & Pltry Prod & By-Products)	2	3	3
MAJOR ELECTIVE					3
UNDERGRADUATE THESIS					1
					16

2nd Semester

AN. SCI.	48	(Behavior and Ecology of Farm Ani.)	2	3	3
AN. HLT.	46	(An. Health Mgt.)	2	3	3
MAJOR ELECTIVE					3
MAJOR ELECTIVE					3
UNDERGRADUATE SEMINAR					1
UNDERGRADUATE THESIS					4
					17

COURSE DESCRIPTION

I. FUNDAMENTAL COURSES:

A. Social Sciences

1. AG. ECON. 21 - FARM MANAGEMENT - Management, land utilization farm labor, analysis of costs and returns, farm finance, and marketing of agricultural products.

   Prerequisites: Econ. 11 & Agron. 21
   5 hours/week (2 lec., 3 lab.)
   Credit: 3 Units

2. AG. EXT. 21 - AGRICULTURAL EXTENSION TEACHING - Principles, methods and techniques in agricultural extension teaching.

   Prerequisite: Education 21
   5 hours/week (lec.)
   Credit: 3 Units

B. Physical Sciences

1. CHEMISTRY 21 - GENERAL BIOCHEMISTRY - Structure and functions of important biomolecules in living systems.

   Prerequisite: Chemistry 12
   3 hours a week (lec.)
   Credit: 3 Units

2. SOILS 21 - FUNDAMENTALS OF SOILS AND FERTILIZER - Soils genesis and classification, nature and properties of soil components; methods of applying fertilizers and economics of fertilization; soil conservation and management.

   Prerequisite: Chem. 11
   5 hours/week (2 lec., 3 lab.)
   Credit: 3 Units

D. Others

1. MICRO. 21 - GENERAL MICROBIOLOGY - Principles of Microbiology in relation to agriculture; microbiology of foods and some industrial processes.

Prerequisite: Biology 11
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

2. AG BOT.21 - PRINCIPLES OF GENETICS - Laws of heredity and variation; transmission, distribution, arrangement, structure and function of genetic materials.

Prerequisite: Ag. Bot. 11
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

E. Animal Sciences

1. AN. SCI. 21 - PRINCIPLES OF ANIMAL SCIENCE I - Fundamentals of anatomy and physiology, genetics, reproduction endocrinology, lactation, digestion, nutrition, growth, environmental physiology and animal health.

Prerequisite: Zool. 11
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

2. AN. SCI. 22 - PRINCIPLES OF ANIMAL SCIENCE II - Importance and problems of poultry and livestock production; breeds; selection; housing; cultural and management practices; nutrition and marketing.

Prerequisite: An. Sci. 21
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

3. AN. SCI. 24 - ANATOMY AND PHYSIOLOGY OF FARM ANIMALS - Comparative anatomy and physiology of farm animals.

Prerequisite: An. Sci. 21 & Zool. 11
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

II. MAJOR CORE COURSES:

A. Common for Both Majors:

1. AN. SCI. 31 - FEEDS AND FEEDING - Composition and use of feeds; formulation of rations; feeding practices; and feed mill operation.

Prerequisite: An. Sci. 22
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

2. AN. SCI. 32 - POULTRY PRODUCTION - Principles and practices in poultry production; brooding, rearing, culling and selection, feeding, including waste disposal and marketing.

Prerequisite: An. Sci. 22
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

3. AN. SCI. 33 - SWINE PRODUCTION - Principles and practices in

4. AN. SCI. 34 - ANIMAL NUTRITION - Functions and metabolism of various nutrients, and metabolic disorders and nutritional requirements of farm animals.

   Prerequisites: An. Sci. 31 and Chem. 21
   5 hours/week (2 lec., 3 lab.)
   Credit: 3 Units

5. AN. HLT. 34 - ANIMAL DISEASE CONTROL - Principles of livestock health and sanitation, epidemology prevention and control of diseases of farm animals and of immunity.

   Prerequisite: An. Sci. 24 and Micro. 21
   5 hours/week (2 lec., 3 lab.)
   Credit: 3 Units

6. AN. SCI. 35 - RUMINANT PRODUCTION - Principles and practices of carabeef, beef and chevon production (horse included)

   Prerequisite: An. Sci. 22
   5 hours/week (2 lec., 3 lab.)
   Credit: 3 Units

7. AN. HLT. 36 - ANIMAL PARASITOLOGY - Morphology, life cycles and ecology of parasitic arthropods, helminths and protozoa; and their pathogenesis and control.

   Prerequisite: An. Sci. 24
   5 hours/week (2 lec., 3 lab.)
   Credit: 3 Units

8. AN. HLT. 46 - ANIMAL HEALTH AND MANAGEMENT - Management practices, population density and environmental factors affecting animal health.

   Prerequisite: Animal Hlt. 34
   3 hours/week (lec.)
   Credit: 3 Units

B. For Animal Health majors:

1. AN. HLT. 35 - ADVANCED ANATOMY - Gross and microscopic study of organs and tissues of farm animals.

   Prerequisite: An. Sci. 24
   7 hours/week (1 lec., 6 lab)
   Credit: 3 Units

2. AN. HLT. 37 - SYSTEMS PHYSIOLOGY - Digestive, urinary, endocrine and other systems; body fluids.

   Prerequisite: An. Sci. 24 & Chem. 21
   5 hours/week (2 lec., 3 lab.)
   Credit: 3 Units

3. AN. HLT. 38 - PATHOGENIC MICROORGANISMS - Biology and control of common bacterial, fungal & viral pathogens.

   Prerequisite: Micro 21
   7 hours/week (1 lec., 6 lab.)
   Credit: 3 Units

4. AN. HLT. 41 - GENERAL PATHOLOGY - Principles of veterinary pathology; body reactions to etiologic agents; post mortem examination.

5. PUB. HLT. 41 - FOOD HYGIENE AND PUBLIC HEALTH - Handling of meat, egg, milk and their by-products; food poisoning; zoonoses. Regulations and legislations.

Prerequisite: An. Hlt. 36 & 38
4 hours/week (1 lec., 3 lab.)
Credit: 2 Units

6. AN. HLT. 42 - GENERAL VETERINARY MEDICINE - Major diseases of farm animals, differential diagnosis, treatment and control.

Prerequisite: An. Hlt. 34
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

7. AN. HLT. 43 - ELEMENTARY PHARMACOLOGY - Indication and mode of action of common drug preparations and their toxicity.

Prerequisite: An. Sci. 24
2 hours/week (2 lec.)
Credit: 2 Units

8. AN. HLT. 49 - DIAGNOSTIC PROCEDURE - Theories and methods of clinical and laboratory diagnosis; prevention and control.

Prerequisite: Zool. 11
3 hours/week (lab.)
Credit: 1 Unit

9. AN. HLT. 99 - UNDERGRADUATE SEMINAR

Credit: 1 Unit

10. AN. HLT. 100/100a - UNDERGRADUATE THESIS/FIELD PRACTICE

Credit: 6 Units

C. For Animal Husbandry Majors:

1. AN. SCI. 34 - LIVESTOCK AND POULTRY PRODUCTS AND BY-PRODUCTS - Live animal evaluation, inspection and slaughtering; fabrication, processing and preservation of meat, egg and their by-products.

Prerequisite: An. Sci. An. Sci. 24 and Micro 21
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

2. AN. SCI. 37 - PRINCIPLES OF ANIMAL BREEDING - Genetics of livestock improvement; animal breeding plans and artificial insemination.

Prerequisite: An. Sci. 21
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

3. AN. SCI. 38 - DAIRY PRODUCTION - Feeding, care and management of dairy animals, hygienic production of milk.

Prerequisite: An. Sci. 22
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

4. AN. SCI. 39 - LIVESTOCK SELECTION - Evaluation of productive merits of individual animals with emphasis on swine and dairy.

Prerequisite: An. Sci. 21

5. AN. SCI. 95 - SEMINAR
Credit: 1 Unit

6. AN. SCI. 100- UNDERGRADUATE THESIS
Credit: 6 Units

Electives:

1. AN. SCI. 42 - POULTRY MANAGEMENT - Management requirements of various ages of layers, broilers and ducks with emphasis on housing and ecological considerations.
Prerequisite: An. Sci. 32
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

2. AN. SCI. 43 - POULTRY BREEDING AND REPRODUCTION - Genetic factors affecting economic traits; methods of breeding; physiology of egg production.
Prerequisite: An. Sci. 37
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

3. AN. SCI. 44 - INCUBATION - Principles of incubation, types and operation of incubators; fertility; embryonic development, hatching, and hatchery management.
Prerequisite: An. Sci. 32
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

4. AN. SCI. 45 - SWINE BREEDING AND REPRODUCTION - Genetic factors affecting economic traits; methods of breeding; physiology of reproduction.
Prerequisite: An. Sci. 37
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

5. AN. SCI. 46 - SWINE MANAGEMENT - Management requirements of various classes and age of swine with emphasis on housing and ecological considerations.
Prerequisite: An. Sci. 33
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

6. AN. SCI. 47 - FEEDLOT AND RANGE MANAGEMENT - Feedlot and range operations including stocking, feeding, and pasture establishment; soil and water conservation; waste disposal; equipment.
Prerequisite: An. Sci. 35
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

7. AN. SCI. 49- DAIRY PRODUCTS - Principles of processing milk and milk products; milk industry and markets.
Prerequisite: An. Sci. 38
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

8. AGRON. 44 - PASTURE AND FORAGE CROPS - Production of forage crops; management and utilization of range lands.
Prerequisite: Agron. 21
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

9. AC. ECON. 41 - PRINCIPLES OF ACCOUNTING - Accounting principles as applied to agricultural business.
Prerequisite: Econ. 11
5 hours/week (2 lec., 3 lab.)
Credit: 3 Units

APPENDIX G

PROPOSED BUDGET FOR THE
PROJECT IMPLEMENTING UNIT (PIU)
SUPPORTED BY VISCA

I. SALARY (Contractual)

A.	One (1) Technical Staff Head		₱1,500/month
B.	One (1) Supervising Engineer		1,300/month
C.	Four(4) Resident Inspectors	₱1,200.00 each	4,800/month
D.	Two(2) Draftsment	800.00 each	1,600/month
E.	One (1) Secretary/Bookkeeper		750/month
		Sub-total	₱9,950/month

II. HONORARIUM

A.	One (1) Project Architect		₱1,200.00/mo.
B.	One (1) Asst. Project Architect		500.00/mo.
C.	One (1) Equipment Procurement Officer		500.00/mo.
D.	One (1) Asst. Equipment Procurement Offider		250.00/mo.
E.	One (1) Rural Development Sector Officer		500.00/mo.
F.	One (1) Technical Assistance Program Officer		250.00/mo.
G.	Three (3) Division Heads	₱300.00 each	900.00/mo.
H.	Three (3) CBA II Member	300.00 each	900.00/mo.
			₱4,800.00/mo.

III.	Transportation and Travel	₱1,200.00/mo.
IV.	Supplies ahd Materials	1,500.00/mo.
V.	Sundries	500.00/mo.
	GRAND TOTAL/MONTH	₱17,950.00
	/QUARTER	53,850.00
	/YEAR	214,600.00