

155th ViSCA Board of Trustees Meeting
13 March 2000
VISAYAS STATE COLLEGE OF AGRICULTURE
Baybay, Leyte

AGENDA

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**155th ViSCA Board of Trustees Meeting
13 March 2000**

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Baybay, Leyte

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building for use by the VAA. All expenses shall be borne by the VAA.

After making corrections, the Board passed:

Board Resolution No. 3, s. 2000

Approving the minutes in matrix form of the 154th Board of Trustees held on 3 December 1999 at ViSCA, Baybay, Leyte, as corrected.

Board Action: APPROVED

Date: March 13, 2000

VI. PRESIDENT'S REPORT

The Board noted the President's report.

VII. COMMUNICATIONS

Regarding the complaint of the Faculty and Employees Association of the Leyte State School of Fisheries, Tolosa, Leyte, Comm. Botengan requested Dir. Acapulco to turn over the documents relative to the Palaña case to Pres. Milan and help by serving as resource person on this case. Comm. Botengan suggested also to Pres. Milan to create a task force to investigate so that there will be due process.

VIII. UNFINISHED BUSINESS

1. Implementing Guidelines for the Semestral Scheme of the Graduate Education Program of VOU

The Board suggested to let the Academic Council (AC) discuss the proposal first and make the appropriate recommendation before the Board will act on it.

2. Proposal to Regulate the Teaching Load and Thesis Advising of Academic Staff with Designated Positions

The Board approved the proposal and passed:

Board Resolution No. 4, s. 2000

Approving the regulation of the teaching load and thesis advising of academic staff with designated position as follows:

1. Academic Staff with administrative positions (Department Heads, Directors, and Vice Presidents) should be allowed only a total of six (6) units of teaching load during office hours without honorarium except for overload teaching. They may however, accept additional teaching load after office hours or on week-ends with honorarium in accordance with pertinent guidelines, provided, that their total workload is not less than 23 units.

2. The number of undergraduate/graduate students that they can serve as major thesis adviser shall also be limited to only five (5) so that they can give their thesis students adequate time and attention.

Board Action: APPROVED

Date: March 13, 2000

3. **Proposal to Fix the Honorarium Rates for Teaching Requested Courses and Courses Offered on Week-Ends and After Office Hours**

The Board suggested that this proposal be studied by appropriate bodies first.

4. **Retirement Papers of Dr. Samuel S. Go**

After along discussion on the issue, the Board agreed to authorize the President to forward the retirement papers of Dr. S. Go and passed:

Board Resolution No. 5, s. 2000

In fairness to the retiree, Dr. Samuel S. Go, who has served the government for more than 40 years, the ViSCA BOT authorizes the ViSCA President to forward the retirement papers (gratuity papers) of Dr. Samuel S. Go to the Department of Budget and Management for payment provided that the letter of transmittal shall mention that the ViSCA BOT has been laboring from insufficient guidance from concerned agencies and is not a position to make a decision on the matter.

Board Action: APPROVED

Date: March 13, 2000

5. **CSSC Resolution Requesting to Grant Allowance to Incumbent Officers**

After some discussion on the proposal, the Board agreed to give free tuition fee to the officers instead of the P100.00 per meeting. For those who are scholars, they will be given the amount equivalent to their tuition fee. Hence, the Board passed:

Board Resolution No. 6, s. 2000

Granting free tuition fee to CSSC Officers, namely: President, Vice President, Secretary, Treasurer, Auditor, and Six (6) Senators, effective SY 2000-2001, subject to availability of funds. For those officers who are scholars, they will be given the amount equivalent to their tuition fee.

Board Action: APPROVED

Date: March 13, 2000

IX. NEW BUSINESS

1. **Appointment of Personnel**

The Board passed the following resolutions on the appointment of personnel:

27. BUENAVENTURA, Anthony T.	Clerk 2	VMO
28. BUSTILLO, Norieta B.	Clerk I	SPMD
29. CABALLERO, Jaime A.	Laborer I	LUPDU
30. CACHUELA, Luzminda G.	Clerk I	DDC
31. CAINTIC, Indifonso A.	Carpenter I	PPO
32. CALA, Roberto C.	Proofreader I	EPRD
33. CALLEJA, Juvy C.	Clerk I	PPO
34. CALUMBA, Vidal M.	Crafts & Tradehelper	LIB
35. CALUNANGAN, Fe C.	Clerk I	SPMD
36. CANO, Gregorio C. Jr.	Security Guard I	SECURITY
37. CANONO, Regina M.	Clerk I	DOF
38. CAPRICHO, Joserose B.	Clerk I	DASS
39. CASTAÑAS, Levi G.	Laborer I	DASS
40. CASTILLO, Bonifacio E.	Utility Worker I	DAEE
41. CENTES, Hermogines B.	Carpenter I	PPO
42. CERNA, Mizael B.	Illustrator I	CSR
43. CERNA, Norma C.	Clerk I	SPMD
44. CO, Jocelyn T.	Data Entry Mach Optr I	FMO
45. COLONIA, Emiterio N.	Utility Worker I	DAL
46. CORDERO, Vicente A.	Educ Res Asst I	ATEP
47. CORTEJOS, William A.	Utility Worker I	HOSTEL
48. DACERA, Wilfredo T.	Elect&Comm Eqpt Tec	IDYAC
49. DARGANTES, Editha F.	Clerk I	LUPDU
50. DAÑO, Ricardo Benedicto B.	Utility Worker I	SPMD
51. DIAZ, Rosito A.	Laborer I	RCRC
52. ESCASINAS, Virgilio A.	Security Guard I	SECURITY
53. ESPINA, Sharon, Lynn C.	Clerk I	DAEAM
54. ESPINOSA, Antonio C.	Security Guard I	SECURITY
55. ESTILO, Leo B.	Laborer I	ANEC
56. ESTOY, Eduardo C.	Security Guard I	SECURITY
57. ESTROSAS, Mansueto E.	Laborer I	LUPDU
58. FAELNAR, Meleanida C.	Comm Equip Oper I	OP
59. FERNANDEZ, Bernardito R.	Clerk I	DAEE
60. FLORES, Ma. Zaida A.	Clerk I	NARC
61. FORNES, Mercedes V.	Clerk I	LIB
62. GALENZOGA, Avelina V.	Clerk I	REG
63. GIRON, Jesus I.	Security Guard I	SECURITY
64. GLORIA, Reynaldo N.	Farm Supervisor	ATEP
65. GODOY, Raul S.	Security Guard I	SECURITY
66. GOFREDO, Aniano P.	Utility Worker I	SPMD
67. GOFREDO, Teofilo C.	Data Entry Mach Optr I	ACCTG
68. GONZAGA, Ernesto Jr. A.	Clerk I	DYAC
69. GRAVADOR, Merle N.	Utility Worker I	HRMDO
70. GUMBA, Bertulfo M.	Lab Tech I	NARC
71. HERMANO, Agnes P.	Clerk I	LIB
72. HONRADA, Clemente R.	Laborer I	DASS
73. IMPAS, Erlinda V.	Clerk I	ACCTG
74. ISRAEL, Eddie M.	Clerk I	EPRD
75. ISRAEL, Joel M.	Clerk I	APO
76. ITABLE, Expedito T.	Driver I	ODRD
77. JAYME, Lorenda G.	Clerk I	PRCRTC
78. JONGAY, Bonifacio Jr. C.	Security Guard I	SECURITY
79. LAMO, Victorino M.	Laborer I	DASVM
80. LAO, Marvin M.	Clerk I	Cash
81. LAPICEROS, Adriana M.	Clerk I	REG
82. LASQUITES, Heide S.	Educ Res Asst. I	EPRD
83. LATRAS, Jaime V.	Laborer I	DASVM
84. LIBRES, Neil Edchel T.	Forest Ranger	DOF
85. LESIDAN, Pedro O.	Laborer 2	DAEAM
86. LIM, Gemma S.	Clerk-I	ITE
87. LIMSIACO, Ma. Fe L.	Messenger	OAA
88. LIONG, Luciano Jr. G.	Clerk I	FARMI
89. LUNA, Meriam M.	Clerk I	OSA
90. MANAGBANAG, Araceli M.	Clerk I	DPE
91. MANAGBANAG, Samuel M.	Rep. Machine Oper I	PPO/MJS
92. MANLA, Noel M.	Welder I	PPO
93. MARANGUIT, Laureano S.	Laborer I	DOH
94. MARANGUIT, Norberto J.	Laborer I	LUAPO

95. MARTIREZ, Vicente C.	Utility Worker I	HOSTEL
96. MASCARIÑAS, Faye Aileen S.	Clerk I	IMDC
97. MAZO, Elena A.	Clerk I	PRCRTC
98. MERCADO, Clara P.	Data Entry Mach Opr I	EPRD
99. MODINA, Antonio P.	Illustrator 1	EPRD
100. MONTAJES, Carlos B.	Utility Worker 1	DAEAM
101. MONTAJES, Rosita S.	Clerk 1	VLHS
102. NAYRE, Alwin P.	Clerk 1	ODRD
103. NAYRE, Shirley T.	Clerk 1	ODEX
104. OCENA, Albino M.	Supplies Checker	ICU
105. OCLINARIA, Isidro D.	Driver 1	DPP
106. OMALAY, Danilo D.	Utility Worker 1	DAC-FS
107. OMEGA, Randy G.	Data Entry Mach Opr1	BIDANI
108. OQUIAS, Sabas E.	Carpenter 1	PPO
109. OTIDA, Leonarda P.	Clerk 1	ACCTG
110. PABON, Armando M.	Utility Worker 1	DPP
111. PAGALAN, Raul J.	Machinist 1	DAEAM
112. PATOLILIC, Perseveranda O.	Clerk 1	PPO
113. PERNITO, Anelito C.	Utility Worker 1	INFIRMARY
114. POMIDA, Virgilio Q.	Artist Illustrator 2	PRCRTC
115. POSAS, Arsenia M.	Clerk 1	ViCARP
116. POSAS, Domingo P.	Crafts & Trade-Helper	PPO
117. POSAS, Henry P.	Security Guard 1	SECURITY
118. RABOR, Alexander P.	Security Guard 1	SECURITY
119. RACHO, Glenda A.	Clerk 1	PRINTING
120. ROSOLADA, Nathaniel B.	Educ. Res Asst 1	ODI
121. SACRO, Celso P.	Clerk 1	Acctg
122. SALES, Teresita A.	Librarian 1	LIBRARY
123. SANCHEZ, Luis A.	Utility Worker 1	SPMD
124. SARZONA, Clarita M.	Data Entry Mach Op1	OVPA
125. SEDROME, Isabelita V.	GuestHouse Caretaker	VCO
126. SEÑARA, Cielo P.	Clerk 1	NARC
127. SOLANO, Ernesto G.	Laborer 1	DOF
128. STA. IGLESIA, Marilou L.	Clerk 1	DHS
129. SUBERE, Eva S.	Clerk 4	LIB
130. TABAT, Ciriaco G.	Security Guard 1	SECURITY
131. TABINAS, Renelio B.	Heavy Equipt Oper 1	LUPDU
132. TAN, Basilio Jr. E.	Security Guard 1	SECURITY
133. TORCINO, Leonilo B.	Clerk 1	ACCTG
134. TURCENO, Arturo M.	Security Guard 1	SECURITY
135. URDANETA, Pamela H.	Clerk 1	RCRC
136. VALENZONA, Roy Cecil O.	Nursing Attendant 1	INFIRMARY
137. VERGARA, Rafael Jr. B.	Clerk 1	DAEAM
138. VESTRA, Ricardo S.	Utility Worker 1	PRINTING
139. VILLAR, Bibiano S.	Utility Worker 1	HOSTEL
140. ZAPATOS, Sotico A.	Security Guard 1	SECURITY

BOT Action: CONFIRMED

Date: 13 March 2000

Board Resolution No. 10, s. 2000

Confirming the renewal of appointment of the following ViSCA contractual employees subject to existing rules and regulations for the period January to March 2000.

NAME	POSITION
1. ABOGADIE, Enrique B.	Science Res. Asst
2. BACLAYON, Dewoowoogen	Science Res. Asst
3. BALIÑA, Fatima T.	Science Res. Asst
4. BANCALE, Gloria E.	Science Res. Asst
5. BASTASA, Arturo S.	Utility Worker 1
6. BELLEZAS, Hazel I.	Science Res. Asst
7. BELMONTE, Demetrio Jr. V.	Science Aide
8. BERGANTIN, Reynaldo V.	Science Res. Asst
9. BETONIO, Janeth B.	Science Res. Asst

10. BRIONES, Rosalia L.	Science Res. Asst
11. CAGASAN Ulysses A.	Science Res. Asst
12. CAIN TIC, Pauline S.	Science Res. Asst
13. CAIN TIC, Wenito A.	Science Res. Asst
14. CATORCE, Dennis N.	Science Res. Asst
15. CUYOS, Nelita P.	Science Res. Asst
16. DALION, Selvano S.	Science Res. Asst
17. DELIMA, Estrella D.	Science Aide
18. DE PEDRO, Steevann B.	Science Res. Spec. 2
19. DUATIN, Cecile Joy Y.	Science Res. Asst
20. DUATIN, Flora Mia Y.	Science Res. Asst
21. ESQUIBEL, Cecilia B.	Science Aide
22. GODOY, Federico Jr. P.	Science Aide
23. LAURENTE, Alwin Y.	Science Res. Asst
24. LORETO, Dale P.	Science Aide
25. LUDEVESE, Erwin G.	Science Res. Asst
26. MALASAGA, Edralin M.	Science Res. Asst
27. MARGALLO, Rosalea Fenina A.	Science Res. Asst
28. MAURILLO, Leonarda A.	Science Res. Asst
29. MOLATO, Avelina P.	Science Res. Asst
30. MOLATO, Dario D.	Science Res. Asst
31. NAYRE, Ma. Mildred L.	Science Res. Asst
32. NORIEL, Ediezer A.	Science Res. Asst
33. OCON, Felix L.	Science Res. Asst
34. OCOY, Edwin T.	Science Aide
35. PAGENTE, Ma. Delia A.	Science Res. Asst
36. PALERMO, Victoria G.	Science Res. Asst
37. PARAC, Ammie A.	Science Res. Asst
38. PARAISO, Raquel B.	Science Aide
39. PEDREGOSA, Lawrence S.	Science Res. Asst
40. PEDRERA, Ma. Jehan G.	Science Res. Asst
41. PEQUE, Elizabeth C.	Science Res. Asst
42. PLASABAS, Jose Lloyd R.	Science Res. Asst
43. RACHO, Preston E.	Science Res. Asst
44. SABAREZ, Shirley T.	Science Res. Asst
45. SACEDON, Marlon F.	Science Res. Asst
46. SALAPA, Ferdinand Francisco E.	Science Res. Asst
47. SANICO, Remigio M.	Science Aide
48. SEROHIJOS, Romeo L.	Science Res. Asst
49. TAPAYAN, Yvonne S.	Science Res. Asst
50. TERNURA, Luzvisminda A.	Science Res. Asst
51. TROYO, Anita D.	Science Aide
52. UMPAD, Elsa M.	Science Res. Asst
53. VALENZONA, Mario A.	Science Aide
54. VESTRA, Jeremias S.	Science Res. Asst
55. VILLAGONZALO, Ginas Aurea A.	Science Res. Asst
56. VILLAR, Aniceto C.	Science Res. Asst

BOT Action: CONFIRMED
Date: 13 March 2000

Board Resolution No. 11, s. 2000

Approving the change of position title of Mr. Victor M. Lamo from casual Laborer to casual Utility Worker 1, subject to existing rules and regulations:

BOT Action: APPROVED
Date: 13 March 2000

Board Resolution No. 12, s. 2000

Approving the change of appointment status of Mr Nilo M. Jordan from temporary to permanent subject to existing rules and regulations. This shall take effect immediately.

BOT Action: APPROVED

Date: 13 March 2000

Board Resolution No. 13, s. 2000

Approving the extension of the secondment of Dr. Oscar B. Posas to the Philippine Carabao Center at ViSCA, effective January 1 to December 31, 2000 subject to pertinent policies.

BOT Action: APPROVED

Date: 13 March 2000

2. Proposal to Accommodate Wedding Receptions, Baptism Parties, Reunions, and Other Formal Gatherings at the ViSCA Convention Center

After a lengthy deliberation, the Board agreed to approve the proposal in principle with the condition that a refined guideline will be submitted for BOT approval. So, the Board passed.

Board Resolution No. 14, s. 2000

Approving in principle the proposal to accommodate wedding receptions, baptism parties, reunions, and other formal gatherings at the ViSCA Convention Center, subject to submission of a refined guideline in using the center.

BOT Action: APPROVED

Date: 13 March 2000

3. Selection of New Private Representatives

Since the terms of the incumbent private representatives are ending, the Board mandated the President to immediately form a research committee in accordance with Section 11, IRR of R.A. 8292. Hence the Board passed:

Board Resolution No. 15, s. 2000

Mandating the President to immediately form a search committee for the selection of two (2) private representatives to the ViSCA Board of Trustees in accordance with Section 11 of the Implementing Rules and Regulations of R.A. 8292. The committee should come up with at least five names for consideration by the Board during the next regular Board meeting.

BOT Action: APPROVED

Date: 13 March 2000

4. Issues Related to Integration of CSIs

The Board discussed the issues raised by point by point. After careful deliberation, the Board agreed to delegate certain powers of the Board to the CSI Heads, and passed:

Board Resolution No. 16, s. 2000

Delegating powers of the Board of Trustees to the CSI Heads especially those responsibilities that they exercised while they are yet under the supervision of CHED, in consultation with CHED Regional Office, subject to applicable CSC rules and regulations.

BOT Action: APPROVED

Date: 13 March 2000

Duties and Responsibilities Delegated by the ViSCA Board of Trustees to CSI Heads

1. To sign appointment papers of CSI employees up to Salary Grade 12, subject to approval by the President and confirmation by the BOT.
2. To approve travel papers of CSI employees up to five days within Region VIII.
3. To approve financial documents up to P150,000 provided that it is within the approved CSI budget.
4. To approve request for purchase of supplies and up to P10,000, provided that it is within the approved CSI budget.
5. To approve request for purchase of equipment up to P25,000.00 provided that it is within the approved CSI budget.
6. To approve applications for leave of absence of CSI employees up to 5 days.

5. Request for Administrative Transfer of LSSF from ViSCA to LIT

The Board disapproved the request of Leyte State School of Fisheries for administrative transfer from ViSCA to LIT since the integration of LSSF to ViSCA is by a law and can be repealed only by law.

6. Guidelines for Nomination and Selection of Professor Emeritus

The proposal was given back to the administration for refinement by the ViSCA Faculty Association (VFA).

7. Guideline for Secondment of ViSCA Staff

The proposal was returned to the administration since it is a management concern.

8. Request from ITE to Undertake Research and Extension Activities and Offer Graduate and Undergraduate Program

The proposal was returned to the administration with the suggestion to include other departments, so that Board action will be holistic, not ITE only.

9. Candidates for Graduation

The Board approved the lists of candidates for graduation and passed:

Board Resolution No. 17, s. 2000

Approving the list of candidates for graduation for Summer 1999.

BOT Action: APPROVED
Date: 13 March 2000

Board Resolution No. 18, s. 2000

Approving the list of candidates for graduation for 1st Semester, SY 1999-2000.

BOT Action: APPROVED
Date: 13 March 2000

Board Resolution No. 19, s. 2000

Approving the tentative list of candidates for graduation, 2nd Semester, SY 1999-2000, subject to submission of requirements for graduation and as endorsed by the office of the college registrar.

BOT Action: APPROVED
Date: 13 March 2000

10. PBAC Recommendation to Award the Construction of Flood Control System to Lake City Builders

The Board approved the proposal and passed:

Board Resolution No. 20, s. 2000

Approving the recommendation to award the construction of Flood Control System to Lake City Builders in the amount of SEVEN HUNDRED FORTY EIGHT THOUSAND PESOS (P748,000.00), subject to availability of funds and existing auditing rules.

BOT Action: APPROVED
Date: 13 March 2000

11. PBAC Recommendation to Award the Construction of Beach Erosion Control to Pyramid Construction

The Board approved the proposal and passed:

Board Resolution No. 21, s. 2000

Approving the recommendation to award the construction of Beach Erosion Control to Pyramid Consolidated Builders in the amount of THREE HUNDRED FIFTY FIVE THOUSAND PESOS (P355,000.00), subject to availability of funds and existing auditing rules.

BOT Action: APPROVED
Date: 13 March 2000

12. Collective Bargaining Negotiation Between ViSCA and VFA

The Board approved the CBN but subject to availability of funds. So, the Board passed:

Board Resolution No. 22, s. 2000

Approving the Collective Bargaining Negotiation Between ViSCA and ViSCA Faculty Association (VFA), subject to accounting and auditing rules and availability of funds.

BOT Action: APPROVED

Date: 13 March 2000

13. Request to Name the PRCRTC Training Hall to E.N. Bernardo Hall

The proposal was returned to the administration for further study and consultation with other ViSCA constituents.

14. Tentative List for Graduation of CSIs

The Board approved the list and passed:

Board Resolution No. 23, s. 2000

Approving the tentative list of candidates for graduation of the external campuses for 2nd Semester, SY 1999-2000, subject to submission of requirements for graduation and as endorsed by their respective registrar. The external campuses are as follows:

1. ViSCA-Isabel Campus
2. ViSCA-Villaba Campus
3. ViSCA-Alang-alang Campus
4. ViSCA-Biliran Campus
5. ViSCA-Tolosa Campus

BOT Action: APPROVED

Date: 13 March 2000

15. Tentative List of Candidates for Graduation with Latin Honors

The Board approved the list of candidates for graduation with Latin Honors and passed:

Board Resolution No. 24, s. 2000

Approving the tentative list of candidates for graduation with Latin Honors, subject to submission of requirements for graduation.

1. AMAR, Rose Imee Zhella G.	BSS	Cum Laude
2. MAZO, Emily A.	BSA	Cum Laude
3. CARPIO, Babylyn D.	BSA	Cum Laude
4. YBAÑEZ, Rechal M.	BSA	Cum Laude
5. GABOTERO, Shirfeny R.	DVM	Cum Laude
6. BERTULFO, Bing L.	BSAgEd	Cum Laude
7. VARRON, Rizalina A.	BSAB	Cum Laude
8. SEBIAL, Marilyn C.	BSA	Cum Laude
9. ALCOBER, Ed Allan	BSA	Cum Laude
10. ALBARRACIN, Mariquit D.	BSAB	Cum Laude
11. NORIEL, Pia Fleur Khristine	BSDC	Cum Laude

(as of 2nd Sem., 1997-98)

12. LABRA, Jerome B.	BSDC	Cum Laude
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BOT Action: APPROVED

Date: 13 March 2000

16. Proposal to Change the Prerequisite Course of Hort 173 from Ag. Bot. 111 to Ag. Bot 113

The Board passed:

Board Resolution No. 25, s. 2000

Approving the proposal to change the prerequisite course of Hort 173 (Introduction to Plant Tissue Culture) from AgBot 115 (Plant Growth and Development) to AgBot 113 (Plant Physiology). This shall take effect immediately.

BOT Action: APPROVED

Date: 13 March 2000

17. Proposal to Change English 23 to English 24

The Board passed:

Board Resolution No. 26, s. 2000

Approving the proposal to change English 23 (Writing the Essay) to English 24 (Writing the Scientific Paper) on the DevCom Curriculum. This shall take effect immediately.

BOT Action: APPROVED

Date: 13 March 2000

18. Proposal to Revise BS in Ag. Engineering Curriculum

The Board passed:

Board Resolution No. 27, s. 2000

Approving the proposal to revise the Bachelor of Science in Agricultural Engineering (BSAE) Curriculum. This shall take effect immediately.

BOT Action: APPROVED

Date: 13 March 2000

19. Proposal to Offer BS in Biology with Majors in Ecology and Marine Biology

The Board approved the proposal. However, since this is a new offering, the proposal will be distributed to CHED Technical panel for review.

Board Resolution No. 28, s. 2000

Approving the proposal to offer Bachelor of Science in Biology with majors in Ecology and Marine Biology subject to review by CHED Technical Panel.

BOT Action: APPROVED

Date: 13 March 2000

20. MOA Between ViSCA and Baybay LGU

The Board approved in principle the MOA with some modifications. Instead of rental, ViSCA will collect one piglet per sow per farrow to cater to animal dispersal project of the college. Also, a revision on the MOA should include the student

access to the area for instructional purposes. The President was advised to work with the proponent for the refinement of the MOA.

X. ADJOURNMENT

There being no other matters to discuss, the meeting was adjourned at 7:25 p.m.

Certified True and Correct:


PROF. DANIEL M. TUDTUD, JR.
Board Secretary

Attested:


DR. KATE C. BOTENGAN
CHED Commissioner & Chairman of
Board of Trustees

ATTACHMENTS

PROPOSAL TO REGULATE THE TEACHING LOAD AND THESIS ADVISING OF ACADEMIC STAFF WITH DESIGNATED POSITIONS

Academic staff with designated positions (department heads, directors, and Vice Presidents) need to balance their workload distribution so that they can adequately attend to their teaching and administrative responsibilities without sacrificing one for the other. If they have no more time for their students due to their overindulgence in administrative functions, the quality of instruction will suffer. If, on the other hand, they will be overloaded with teaching responsibilities, they may not be effective in their supervisory or administrative functions.

It is therefore proposed that:

1. Academic Staff with administrative positions (Department Heads, Directors, and Vice Presidents) should be allowed only a total of six (6) units of teaching load during office hours without honorarium except for overload teaching. They may however accept additional teaching load after office hours or on week-ends with honorarium in accordance with pertinent guidelines, provided, that their total workload is not less than 23 units.
2. The number of undergraduate/graduate students that they can serve as major thesis adviser shall also be limited to only five (5) so that they can give their thesis students adequate time and attention.

PROPOSAL TO FIX THE HONORARIUM RATES FOR TEACHING REQUESTED COURSES AND COURSES OFFERED ON WEEK-ENDS AND AFTER OFFICE HOURS

Traditionally, in computing honoraria for requested courses and those offered during weekends and after office hours, ViSCA has been adopting the honorarium rates for overload teaching, which does not seem appropriate as these course offerings are not included in the computation for overload.

It is therefore proposed that for teaching requested courses, the honorarium rate shall be as follows, regardless of faculty rank:

1. For teaching requested courses, regardless of faculty rank, the honorarium rate, will be as follows:
 - For undergraduate courses - P150.00/hour
 - For graduate courses - P200.00/hour
2. For teaching graduate courses after office hours or on week-ends, the honorarium rate will be as follows:
 - For those with Master's Degree - P200.00/hour
 - For those with Doctorate Degree - P250.00/hour



REPUBLIC OF THE PHILIPPINES
OFFICE OF THE OMBUDSMAN (VISAYAS)

PALACE OF JUSTICE ☐ CAPITOL ☐ 6000 CEBU CITY, PHILIPPINES 2440

1 March 2000

Ms. Paciencia P. Milan
President
Visayas State College of Agriculture
Baybay, Leyte

Dear Madam:

Anent your query re Ombudsman clearance issued to Dr. Samuel S. Go, please be informed that said clearance is practically superseded by the subsequent filing of a case against him.

The subject Ombudsman clearance certifies only to the non-pendency of a case against the applicant as of the date of application. Said certification, therefore, does not hold true to cases subsequently filed thereafter. In the case of Dr. Go, the fact remains that while his application for retirement is being processed, he still has a pending case with this Office.

It is now for the paying agency to decide whether to consider the pendency of said case in the matter of approving Dr. Go's application. You may inquire from GSIS on what action to take on said application for retirement.

For your information.

Truly yours,

NICANOR J. CRUZ, JR.
DIO-Deputy Ombudsman (Visayas)

By:


Virginia Palanca-Santiago
Director



VISAYAS STATE COLLEGE OF AGRICULTURE

Baybay, Leyte, Philippines

Office of the President

22 February 2000

Ms. Fe R. Abellana

Administrative Officer IV

Clearance Section

Office of the Ombudsman (Visayas)

Palace of Justice Bldg.

Capitol, Cebu City

Dear Ms. Abellana:

We would like to acknowledge receipt of your letter dated 04 February 2000 in answer to our query addressed to the Hon. Nicanor J. Cruz, Jr., OIC Deputy Ombudsman for the Visayas.

Madam, we would like to reiterate that the opinion furnished us did not effectively answer our original query which is: "Is the Ombudsman clearance issued to Dr. Samuel S. Go, former ViSCA President, still valid for purposes of processing his retirement pay after a criminal case, docketed as OMB-VIS-CRIM-90-0710, was filed against him." This criminal case is still pending up to the present.

Madam, we really are seeking your comment on this question as this is what the ViSCA Board of Trustees are requesting for, so that the rights of Dr. Samuel S. Go not be trampled upon. Be as it may that the Ombudsman clearance is only good for six (6) months, we would like to put on record whether or not it was justified that the processing of Dr. Go's retirement papers was deferred.

May we hear from you soonest as we have to make our report to the ViSCA Board of Trustees in about a week's time.

Thank you very much and more power to you.

Very truly yours,

A handwritten signature in black ink, appearing to read "P. Milan", is written over the printed name.

PACIENCIA P. MILAN

President



REPUBLIC OF THE PHILIPPINES
OFFICE OF THE OMBUDSMAN (VISAYAS)
PALACE OF JUSTICE ☐ CAPITOL ☐ 6000 CEBU CITY, PHILIPPINES 0205

February 04, 2000

DR. PACIENCIA P. MILAN

President
Visayas State College
6521 Baybay, Leyte


Dear Madam Milan:

This refers to your letter addressed to Hon. Nicanor J. Cruz, Jr., OIC Deputy Ombudsman for the Visayas, seeking an opinion as to whether the Ombudsman Clearance issued to Dr. Samuel S. Go last July 8, 1999 is still valid for the processing of his retirement pay.

Please be informed that the validity of said clearance is only for six (6) months from date of issue and thereafter has to be renewed with the same procedure of submitting application and the required service records. In this case, the said clearance was valid only up to January 8, 2000.

Hoping this clarifies the matter.

Very truly yours,


EE R. ABELLANA
Administrative Officer IV
Clearance Section



VISAYAS STATE COLLEGE OF AGRICULTURE

Baybay, Leyte
Philippines

Office of the President

December 21, 1999

Hon. Kate C. Botengan
Chairman
ViSCA Board of Trustees
CHED, Manila

Madam:

This is in connection with the retirement of the former ViSCA President, Dr. Samuel S. Go, under RA 1616 wherein the computation of his gratuity benefits was held pending by this office due to the pendency of another case filed against him before the Ombudsman.

To facilitate release of cash allocation for his gratuity benefits, an Ombudsman clearance is an important document required by DBM. However, although Dr. Go was able to submit an Ombudsman clearance dated July 8, 1999, we feel that said document is no longer acceptable to the pendency of another Ombudsman case, OMB-VIS-CRIM-99-0710.

The action of this office was subjected to a lengthy discussion during the December 3, 1999 BOT meeting. Finally, the board decided for this office to secure within 15 days an opinion of the Ombudsman Visayas on the matter.

On December 8, 1999, this office sent a letter to Justice Arturo C. Mojica seeking their opinion whether the Ombudsman clearance issued to Dr. Go dated July 8, 1999 is still in force after a new case against him was later filed and docketed. Said letter was received by the Ombudsman Visayas on December 13, 1999, a copy hereto attached.

Due to the forthcoming Christmas vacation and the formalities at the Office of the Deputy Ombudsman, the requested opinion cannot be given to this office within the 15 day period as required by the board. Dir. Virginia Santiago of the Ombudsman, however, promised to release to this office the requested opinion during the second week of January 2000.

May I therefore request your kind consideration to give the undersigned enough time to get the Ombudsman opinion until the second week of January 2000. With constant follow up from this office, we expect to get the same as promised.

Hoping for your kind consideration.

Very truly yours,


PACIENCIA P. MILAN
President

cc: BOT Members
Dr. S.S. Go



REPUBLIC OF THE PHILIPPINES
OFFICE OF THE OMBUDSMAN (VISAYAS)

PALACE OF JUSTICE ☐ CAPITOL ☐ 6000 CEBU CITY, PHILIPPINES

CERTIFICATION

TO WHOM IT MAY CONCERN :

This is to certify that as per records of this office, Dr. Samuel S. Go former President of VISCA, Baybay, Leyte has the following case(s):

<u>DOCKET NO.</u>	<u>TITLE</u>	<u>NATURE</u>	<u>STATUS</u>
OMB-VIS-CRIM-99-0710	Alan Presbitero vs. Samuel Go, et al.	RA 3019	Pending

This certification is issued upon the request of Ms. Pacencia P. Milan for record purposes.

Cebu City, Philippines, 13 December 1999.


ELPIDIO S. MONTECILLO
Chief, Administrative Division

Verified true & correct:


VICTORIA NESA S. CHIU
Records Officer III

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE OMBUDSMAN
MWSS BUILDING, 176 ARROCEROS STREET, ERMITA 1000 MANILA

99-34808

C E R T I F I C A T I O N

This certifies that as of July 2, 1999
SAMUEL S. GO, a resident
C/O VISCA, BAYBAY, LEYTE, has NO PEND
CRIMINAL AND ADMINISTRATIVE CASES with this office.

Issued upon the request of SAMUEL S. GO
for RETIREMENT purposes this 8th day
July, 1999 at Manila, Philippines.

BY THE AUTHORITY OF THE OMBUDS

J. Salazar
MRS. LOURDES P. SALAZAR
GRAFT INVESTIGATION OFFICER

NOT VALID WITHOUT DRY SEAL.
NOT VALID IF WITH ERASURES/ALTERATIONS.

CONTROL NO. 99-34808

dw/LFF

NOTIFIED XEROX COPY

Jim
LIVEROSE - CANO
ADMINISTRATIVE OFFICER V


College Supreme Student Council
Visayas State College of Agriculture
Baybay, Leyte


Resolution Requesting the ViSCA Board of Trustees to Grant
Incentives to ViSCA Student Council Officers


The College Supreme Council (CSSC) in its meeting last August 31, 1999 discussed among others, about finding means on how to motivate council officers to do their duties well, and on how to make the student council itself attractive to other potential student leaders in the institution. Based on our research, student council officers in other institutions are enjoying certain privileges and incentives. As we observed, many students in these institutions are very much willing to be elected in their student council. The incentives somehow give them a good reason to work more diligently in their respective positions as they are, in one way or another, compensated with their efforts and industry. In ViSCA at present times, only few students are interested to work in the council. Other students just see it to be an additional load on their part as they are not even receiving anything from it other than problems. Worse comes to worst, the student council in ViSCA may be destabilized in the future if only a few or none at all will run in the CSSC.

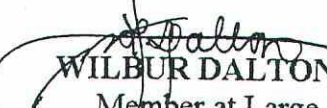
In view of this matter, the CSSC officers hereby passes this resolution to the ViSCA Board of Trustees to request it to grant incentives to ViSCA student council officers in the form of free comprehensive fees and a monthly allowance/stipend of two-hundred fifty pesos (P250.00).

Done this 4th day of November 1999.


ADAM A. PERALTA
CSSC President


ADRIAN P. YBAÑEZ
Speaker - House of Representatives
CSSC Legislative Board


JAPHET CALIPON
Member at Large
CSSC Executive Board


WILBUR DALTON
Member at Large
CSSC Legislative Board


CYRUS GUANZON
CSSC Secretary General


WILLIAM HUBAHIB
Secretary, CSSC Legislative Board

ACTION MEMORANDUM

I. **TITLE:** Appointment of Part -Time Teachers for Board Confirmation

II. **INFORMATION**

The concerned department requested the College President, thru channels, the appointment of part-time teacher to teach specific courses. The Academic Personnel Board recommended the same to the College President for Board approval

I. **ACTION REQUIRED**

Confirmation by the Board the appointment of the part-time teachers effective on the date specified.

IV. **PROPOSED RESOLUTION**

Board Resolution No. ___, s.2000

Confirming the appointment of the following VISCA Part-Time Teacher effective on the date specified subject to existing rules and regulations:

	Name	Department	Effectivity
1.	Canete, Joseph Limuel P	DASVM	2 nd Sem., SY 1999-2000
2.	Cortes, Evelyn S.	DASVM	2 nd Sem., SY 1999-2000
3.	Gealon, Aileen C.	DASVM	2 nd Sem., SY 1999-2000
4.	Genosa, Cristina C.	DPP	Jan 24 – March 31, 2000

Board Action: CONFIRMED

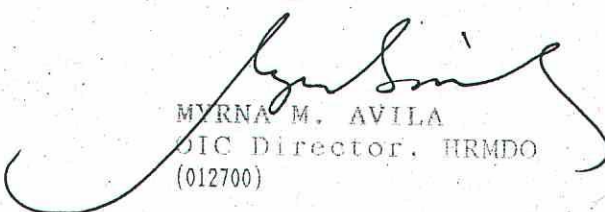
Date: 14 March 2000

VISAYAS STATE COLLEGE OF AGRICULTURE
Baybay, Leyte

APPOINTMENT OF REGULAR EMPLOYEES
FOR BOT CONFIRMATION

<u>Name</u>	<u>Position</u>	<u>Office</u>	<u>NAPB</u>
TEODOSIO, Socorro B.	-REMO I	PRCRTC	12/16/99
TIDOY, Imelda A.	REMO I	PRCRTC	12/16/99
BESTIL, Evelyn T.	REMO I	OVPA	12/16/99
SOLIS, Reminita J.	REMO I	PICRO	12/16/99
DIANO, Ederlina S.	REMO I	Acctg	12/16/99
BASLAN, Ma. Fe	REMO I	SPMD	12/16/99
RABANOS, Nolito L.	Driver I	OP	12/16/99
BENGALAN, Marlon D.	Utility Worker I	NARC	12/16/99
ASILOM, Eduardo B.	Utility Worker I	DPE	12/16/99

Submitted by:


MYRNA M. AVILA
OIC Director, HRMDO
(012700)

Noted:

PACIENCIA P. MILAN
President

FOR BOT CONFIRMATION


EFFECTIVITY: JANUARY 1, 2000

	<u>Name</u>	<u>Position</u>	<u>Office</u>
1	ABANERA, Teofilo C.	Laborer 1	LUAPU
2	ABENOJA, Jesus M.	Const & Maint. Capataz	OSA
3	ABOGADIE, Editha R.	Clerk 1	DPP
4	ACILO, Virgilio C.	Clerk 1	SPMD
5	ALKUINO, Constancio A.	Security Guard 1	SECURITY
6	ALKUINO, Pedro O.	Utility Worker 1	PRCRTC
7	ALMERODA, Arnulfo M.	Laboratory Aide 2	DPP
8	ALVARADO, Herminia R.	Clerk 1	ACCTG
9	ANDRES, Dalisay F.	Clerk 1	DPBAB
10	APELO, Rosalina I.	Clerk 1	ACCTG
11	ARPOCEPLE, Gaspar S.	Plumber 1	PPO
12	ASILOM, Cesar B.	Utility Worker 1	SPMD
13	BABILONIA, Marissa P.	Prop Custodian	DPBAB
14	BAGARINAO, Alex P.	Utility Worker 1	SPMD
15	BAGARINAO, Cesar O.	Farm Foreman	LUPDU
16	BAGARINAO, Isabelo P.	Clerk 1	APD
17	BAGARINAO, Pedro C.	Watchman 1	SECURITY
18	BALBARINO, Yolanda U.	Clerk 1	CASH
19	BANDALAN, Lito P.	Clerk 1	APD
20	BARTOLINI, Manuel C.	Clerk 1	REG
21	BATHAN, Narciso C.	Proofreader 1	PRINTING
22	BOISER, Proceso F.	Watchman 1	PRCRTC
23	BORNIAS, Eutiquio B.	Laborer 1	DPBAB
24	BRAGA, Alfredo M.	Crafts&TradeHelper	PPO
25	BRAGANZA, Teodora Doris P.	Public Health Nurse1	INFIRMARY
26	BULAWAN, Julius, Jr. I.	Adm. Asst.	ANEC
27	BUENAVENTURA, Anthony T.	Clerk 2	VMO
28	BUSTILLO, Norieta B.	Clerk 1	SPMD
29	CABALLERO, Jaime A.	Laborer 1	LUPDU
30	CACHUELA, Luzminda G.	Clerk 1	DDC
31	CAINTIC, Ildifonso A.	Carpenter 1	PPO
32	CALA, Roberto C.	Proofreader 1	EPRD
33	CALLEJA, Juvy C.	Clerk 1	PPO
34	CALUMBA, Vidal M.	Crafts&TradeHelper	LIB
35	CALUNANGAN, Fe C.	Clerk 1	SPMD
36	CANO, Gregorio C. Jr.	Security Guard 1	SECURITY
37	CANONO, Regina M.	Clerk 1	DOF
38	CAPRICHIO, Joserose B.	Clerk 1	DASS
39	CASTAÑAS, Levi G.	Laborer 1	DASS
40	CASTILLO, Bonifacio E.	Utility Worker 1	DAEE
41	CENTES, Hermogines B.	Carpenter 1	PPO
42	CERNA, Mizaël B.	Illustrator 1	CSR
43	CERNA, Norma C.	Clerk 1	SPMD
44	CO, Jocelyn T.	Data Entry Mach Optr 1	FMO
45	COLONIA, Emitterio N.	Utility Worker 1	DAL

46	CORDERO, Vicente A.	Educ Res Asst 1	ATEP
47	CORTEJOS, William A.	Utility Worker 1	HOSTEL
48	DACERA, Wilfredo T.	Elect & Comm Eqpt Tech 1	DYAC
49	DARGANTES, Editha F.	Clerk 1	LUPDU
50	DAÑO, Ricardo Benedicto B.	Utility Worker 1	SPMD
51	DIAZ, Rosito A.	Laborer 1	RCRC
52	ESCASINAS, Virgilio A.	Security Guard 1	SECURITY
53	ESPINA, Sharon Lynn C.	Clerk 1	DAEAM
54	ESPINOSA, Antonio C.	Security Guard 1	SECURITY
55	ESTILO, Leo B.	Laborer 1	ANEC
56	ESTOY, Eduardo C.	Security Guard 1	SECURITY
57	ESTROSAS, Mansueto E.	Laborer 1	LUPDU
58	FAELNAR, Meleanida C.	Comm Equip Oper 1	OP
59	FERNANDEZ, Bernardito R.	Clerk 1	DAEE
60	FLORES, Ma. Zaida A.	Clerk 1	NARC
61	FORNES, Mercedes V.	Clerk 1	LIB
62	GALENZOGA, Avelina V.	Clerk 1	REG
63	GIRON, Jesus I.	Security Guard 1	SECURITY
64	GLORIA, Reynaldo N.	Farm Supervisor	ATEP
65	GODOY, Raul S.	Security Guard 1	SECURITY
66	GOFREDO, Aniano P.	Utility Worker 1	SPMD
67	GOFREDO, Teofilo C.	Data Entry Mach Optr 1	ACCTG
68	GONZAGA, Ernesto Jr. A.	Clerk 1	DYAC
69	GRAVADOR, Merle N.	Utility Worker 1	HRMDO
70	GUMBA, Bertulfo M.	Lab Tech 1	NARC
71	HERMANO, Agnes P.	Clerk 1	LIB
72	HONRADA, Clemente R.	Laborer 1	DASS
73	IMPAS, Erlinda V.	Clerk 1	ACCTG
74	ISRAEL, Eddie M.	Clerk 1	EPRD
75	ISRAEL, Joel M.	Clerk 1	APO
76	ITABLE, Expedito T.	Driver 1	ODRD
77	JAYME, Lorenda G.	Clerk 1	PRCRTC
78	JONGAY, Bonifacio Jr. C.	Security Guard 1	SECURITY
79	LAMO, Victorino M.	Laborer 1	DASVM
80	LAO, Marvin M.	Clerk 1	Cash
81	LAPICEROS, Adriana M.	Clerk 1	REG
82	LASQUITES, Heide S.	Educ Res Asst 1	EPRD
83	LATRAS, Jaime V.	Laborer 1	DASVM
84	LIBRES, Neil Edchel T.	Forest Ranger	DOF
85	LESIDAN, Pedro O.	Laborer 2	DAEAM
86	LIM, Gemma S.	Clerk 1	ITE
87	LIMSIACO, Ma. Fe L.	Messenger	OAA
88	LIONG, Luciano Jr. G.	Clerk 1	FARMI
89	LUNA, Meriam M.	Clerk 1	OSA
90	MANAGBANAG, Araceli M.	Clerk 1	DPE
91	MANAGBANAG, Samuel M.	Rep Machine Oper 1	PPO/MJS
92	MANLA, Noel M.	Welder 1	PPO
93	MARANGUIT, Laureano S.	Laborer 1	DOH
94	MARANGUIT, Norberto J.	Laborer 1	LUAPU
95	MARTIREZ, Vicente C.	Utility Worker 1	HOSTEL
96	MASCARIÑAS, Faye Aileen S.	Clerk 1	IMDC

97	MAZO, Elena A.	Clerk 1	PRCRTC
98	MERCADO, Clara P.	Data Entry Mach Optr 1	EPRD
99	MODINA, Antonio P.	Illustrator 1	EPRD
100	MONTAJES, Carlos B.	Utility Worker 1	DAEAM
101	MONTAJES, Rosita S.	Clerk 1	VLHS
102	NAYRE, Alwin P.	Clerk 1	ODRD
103	NAYRE, Shirley T.	Clerk 1	ODEX
104	OCEÑA, Albino M.	Supplies Checker	ICU
105	OCLINARIA, Isidro D.	Driver 1	DPP
106	OMALAY, Danilo D.	Utility Worker 1	DACFS
107	OMEGA, Randy G.	Data Entry Mach Optr 1	BIDANI
108	OQUIAS, Sabas E.	Carpenter 1	PPO
109	OTIDA, Leonarda P.	Clerk 1	ACCTG
110	PABON, Armando M.	Utility Worker 1	DPP
111	PAGALAN, Raul J.	Machinist 1	DAEAM
112	PATOLILIC, Perseveranda O.	Clerk 1	PPO
113	PERNITO, Anelito C.	Utility Worker 1	INFIRMARY
114	POMIDA, Virgilio Q.	Artist Illustrator 2	PRCRTC
115	POSAS, Arsenia M.	Clerk 1	VICARP
116	POSAS, Domingo P.	Crafts&TradeHelper	PPO
117	POSAS, Henry P.	Security Guard 1	SECURITY
118	RABOR, Alexander P.	Security Guard 1	SECURITY
119	RACHO, Glenda A.	Clerk 1	PRINTING
120	ROSOLADA, Nathaniel B.	Educ Res Asst 1	ODI
121	SACRO, Celso F.	Clerk 1	Acctg
122	SALES, Teresita A.	Librarian 1	LIB
123	SANCHEZ, Luis A.	Utility Worker 1	SPMD
124	SARZONA, Clarita M.	Data Entry Mach Optr 1	OVPA
125	SEDROME, Isabelita V.	Guesthouse Caretaker	VCO
126	SEÑARA, Cielo F.	Clerk 1	NARC
127	SOLANO, Ernesto G.	Laborer 1	DOF
128	STA. IGLESIA, Marilou L.	Clerk 1	DHS
129	SUBERE, Eva S.	Clerk 4	LIB
130	TABAT, Ciriaco G.	Security Guard 1	SECURITY
131	TABINAS, Renelio B.	Heavy Equip Oper 1	LUPDU
132	TAN, Basilio Jr. E.	Security Guard 1	SECURITY
133	TORCINO, Leonilo B.	Clerk 1	ACCTG
134	TURCENO, Arturo M.	Security Guard 1	SECURITY
135	URDANETA, Pamela H.	Clerk 1	RCRC
136	VALENZONA, Roy Cecil O.	Nursing Attendant 1	Infirmary
137	VERGARA, Rafael B. Jr.	Clerk 1	DAEAM
138	VESTRA, Ricardo S.	Utility Worker 1	PRINTING
139	VILLAR, Bibiano S.	Utility Worker 1	HOSTEL
140	ZAPATOS, Sotico A.	Security Guard 1	SECURITY

Submitted by:


MYRNA M. AVILA
 OIC Director, HRMDO
 (021600)

Noted:


PACIENCIA P. MILAN
 President

VISAYAS STATE COLLEGE OF AGRICULTURE
Baybay, Leyte

Renewal of Contractual employees
for BOT Confirmation

Effectivity: January 1, 2000

1	ABOGADIE, Enrique B.	Science Res Asst
2	BACLAYON, Dewoowoogen P.	Science Res Asst
3	BALIÑA, Fatima T.	Science Res Asst
4	BANCALE, Gloria E.	Science Res Asst
5	BASTASA, Arturo S.	Utility Worker 1
6	BELLEZAS, Hazel I.	Science Res Asst
7	BELMONTE, Demetrio Jr. V.	Science Aide
8	BERGANTIN, Reynaldo V.	Science Res Asst
9	BETONIO, Janeth B.	Science Res Asst
10	BRIONES, Rosalia L.	Science Res Asst
11	CAGASAN, Ulysses A.	Science Res Asst
12	CAINTIC, Pauline S.	Science Res Asst
13	CAINTIC, Wenito A.	Science Res Asst
14	CATORCE, Dennis N.	Science Res Asst
15	CUYOS, Nelita P.	Science Res Asst
16	DALION, Selvano s.	Science Res Asst
17	DELIMA, Estrella D.	Science Aide
18	DE PEDRO, Steevann B.	Science Res Spec. 2
19	DUATIN, Cecile Joy Y.	Science Res Asst
20	DUATIN, Flora Mia Y.	Science Res Asst
21	ESQUIBEL, Celia B.	Science Aide
22	GODOY, Federico P. Jr.	Science Aide
23	LAURENTE, Alwin Y.	Science Res Asst
24	LORETO, Dale P.	Science Aide
25	LUDEVESE, Erwin G.	Science Res Asst
26	MALASAGA, Edralin M.	Science Res Asst
27	MARGALLO, Rosalea Fenina A.	Science Res Asst
28	MAURILLO, Leonarda A.	Science Res Asst
29	MOLATO, Avelina P.	Science Res Asst
30	MOLATO, Dario D.	Science Res Asst
31	NAYRE, Ma. Mildred L.	Science Res Asst
32	NORIEL, Ediezer A.	Science Res Asst
33	OCON, Felix L.	Science Res Asst
34	OCOY, Edwin T.	Science Aide
35	PAGENTE, Ma. Delia A.	Science Res Asst
36	PALERMO, Victoria G.	Science Res Asst
37	PARAC, Ammie A.	Science Res Asst
38	PARAISO, Raquel B.	Science Aide
39	PEDREGOSA, Lawrence S.	Science Res Asst
40	PEDRERA, Ma. Jehan G.	Science Res Asst
41	PEQUE, Elizabeth C.	Science Res Asst
42	PLASABAS, Jose Lloyd R.	Science Res Asst
43	RACHO, Preston E.	Science Res Asst
44	SABAREZ, Shirley T.	Science Res Asst
45	SACEDON, Marlon F.	Science Res Asst

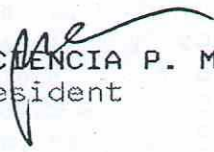
Renewal of Contractual employees
for BOT Confirmation

46	SALAPA, Ferdinand Francisco E.	Science Res Asst
47	SANICO, Remigio M.	Science Aide
48	SEROHIJOS, Romeo L.	Science Res Asst
49	TAPAYAN, Yvonne S.	Science Res Asst
50	TERNURA, Luzvismina A.	Science Res Asst
51	TROYO, Anita D.	Science Aide
52	UMPAD, Elsa M.	Science Res Asst
53	VALENZONA, Mario A.	Science Aide
54	VESTRA, Jeremias S.	Science Res Asst
55	VILLAGONZALO, Ginas Aurea A.	Science Res Asst
56	VILLAR, Aniceto C.	Science Res Asst

Submitted by:


MYRNA M. AVILA
OIC Director, HRMDO

Noted:


PACIENCIA P. MILAN
President

VISAYAS STATE COLLEGE OF AGRICULTURE
BAYBAY, LEYTE

CHANGE OF POSITION TITLE

FOR BOT CONFIRMATION

<u>NAME OF STAFF</u>	<u>POSITION</u>	<u>DATE</u> <u>NAPB MEETING</u>
1. LAMO, Victor M.	Laborer to Utility Worker 1	Jan. 21, 2000

SUBMITTED BY:


MYRNA M. AVILA
OIC Director, HRMDO
012700)

Noted:

PACIENCIA P. MILAN
President

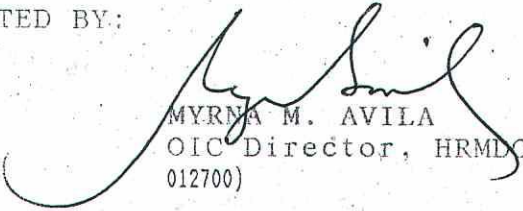
VISAYAS STATE COLLEGE OF AGRICULTURE
BAYBAY, LEYTE

TEMPORARY VISCA STAFF
RECOMMENDED FOR PERMANENCY

FOR BOT APPROVAL

<u>NAME OF STAFF</u>	<u>POSITION</u>	<u>DATE</u> <u>NAPB MEETING</u>
1. JORDAN, Nilo M.	Utility Worker I	Jan. 21, 2000

SUBMITTED BY:


MYRNA M. AVILA
OIC Director, HRMDO
(012700)

Noted:

PACIENCIA P. MILAN
President

VISAYAS STATE COLLEGE OF AGRICULTURE
Baybay, Leyte

RENEWAL OF SECONDMENT OF VISCA EMPLOYEE
FOR BOT CONFIRMATION

Name	Position	Office
POSAS, Oscar B.	Professor VI	PCC

Note: Recommendation has been passed through the Academic Personnel Board.
(dtd.012000 ref.)

Submitted by:

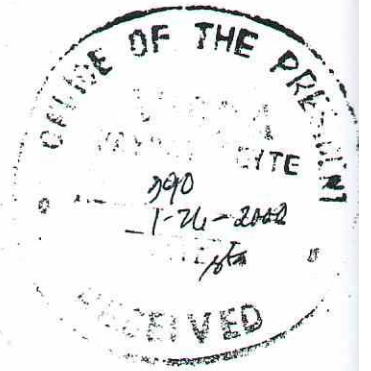

MYRNA M. AVILA
OIC Director, HRMDO
021400

Noted:

PACIENCIA P. MILAN
President


VISAYAS STATE COLLEGE OF AGRICULTURE
Baybay, Leyte

OFFICE OF THE VICE PRESIDENT
FOR ACADEMIC AFFAIRS



1st Indorsement
January 25, 2000

Respectfully forwarded to the College President, Dr. Paciencia P. Milan, recommending approval to the request of Dr. Cruz for extension of the secondment of Dr. Oscar B. Posas as PCC, Center Chief, at ViSCA from January 1 to December 31, 2000. Said request was duly acted upon by the APB through a referendum dated January 20, 2000, hereto attached.


VICENTE A. QUITON
Chairman, APB

APPROVED:


PACIENCIA P. MILAN
PRESIDENT



PHILIPPINE CARABAO CENTER

Department of Agriculture

Headquarters and Gene Pool
Muñoz, Nueva Ecija, Philippines 3120
FAX: 63 (44) 456-0730
Tel.: 63 (44) 456-0731 to 34
email: pcc-oed@moscom.com

Manila Liaison Office
5F, DCIEC Bldg., NIA Cmpd., EDSA,
Quezon City, Philippines 0830
Tel./FAX: 63 (2) 921-3863
63 (2) 926-7707

Ref. No. 04-526 -99

22 December 1999

DR. PACIENCIA P. MILAN

President

Visayas State College of Agriculture
Baybay, Leyte

Dear President Milan:

This refers to the secondment of **Dr. Oscar B. Posas** to the Philippine Carabao Center (PCC) which will expire on 31 December 1999.

We wish to kindly request for the extension of the secondment of Dr. Posas as Center Chief of PCC at ViSCA for another year. Please be informed that the Center has been consistent in the delivery of basic services to the rural-farming communities in Region VIII particularly the region of Leyte, through the able leadership of Dr. Posas.

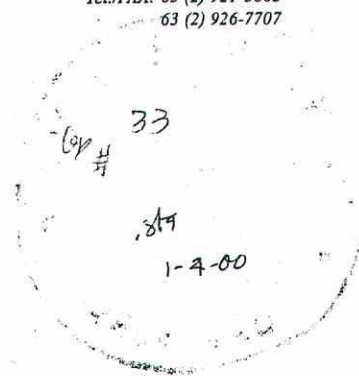
If this request merits your kind approval, attached herewith is the Memorandum of Agreement between the PCC and ViSCA allowing Dr. Posas to be seconded to PCC for the period January 1 to December 31, 2000.

Thank you and anticipating your kind approval on this request.

With warmest regards.

Very truly yours,

LIBERTADO C. CRUZ
Executive Director



OFFICE
233
1-21-200
667

PROPOSAL TO ACCOMMODATE WEDDING RECEPTIONS,
BAPTISM PARTIES, REUNIONS AND OTHER FORMAL
GATHERINGS AT THE VISCA CONVENTION CENTER

RATIONALE

Presently, the use of the VISCA Convention Center is limited to convention gatherings, meetings and other school programs only. As a result, the use of this college facility is not maximized. Furthermore, the income derive from its rentals both from VISCAans and outsiders is insufficient to effect improvements of the center.

To make the Convention Center more presentable and beautiful, we need to improve its facilities and accessories such as procurement of heavy curtains, tables, and whiteboards, potted and ornamental plants, repainting of walls and ceiling, improvement of landscape and others.

Inasmuch as the Convention Center is an income generating project, there is a need to maximize its use to earn more income for its maintenance and physical improvement. Depending largely from the School Administration's subsidy for this purpose is a discouraging prospect of the project.

The above situations demand that the Convention Center also accommodates wedding receptions, baptism parties, reunions and other formal gatherings.

OBJECTIVES:

1. To maximize the use of the Convention Center.
2. To earn more income for its maintenance and operating expenses.
3. To effect improvements of the Convention Center and its physical facilities and accessories.

4. To attain financial stability by not depending on the School Administration for maintenance and improvements of the center.
5. To upgrade the Convention Center to make it highly presentable and at par with those of reputable institutions.

PRIORITIES

The following are the Convention Center Users categorized and listed in order of priority:

1. Administration (free of charge)
2. Official activities of ViSCAns
3. Persons Activities of ViSCAns
4. All others (including outsiders)

To lessen the possibility of time conflicts on the use of the Convention Center, non official or outsider sponsored activities shall be held during weekends whenever possible.

MEASURES TO SAFEGUARD THE CONVENTION CENTER AND ITS FACILITIES

To safeguard the Convention Center and its facilities from vandals, the management is going to assign utilitymen and some student assistants to watch closely for any vandalism act, and of course any damaged caused by the users shall be paid accordingly.

Moreover, strict implementation of the following guidelines should be adhered to by the convention users.

1. The requesting party shall file a request form five (5) days before or earlier to be approved by the manager of the Convention Center.

2. A reservation fee of Five Hundred Pesos (P500.00) will be charged deductible from the total rental of the Center, but non-refundable if the activity is canceled.
3. The requesting party shall pay a deposit of One Thousand Pesos (P1,000.00) for unusual damages caused by the users during the activity. This amount is deductible from the total rental of the Convention Center if no unusual damages occur.
4. "Smoking" and "Drinking Liquors" including beer is strictly prohibited. A fine of (P500.00) is charged for every person violating this provision.
5. The use of staple wires, nails and glue are not allowed in any part of the building, stage, walls and posts.
6. Users should not alter or restructure any portion of the Convention Center.
7. Cleanliness is strictly observed in the Convention Center. Softdrink bottles/cans, plastic bags, wrappers and the like must be collected and disposed at designated places in the Convention Center.
8. Request for additional lighting facilities and public address system is not included in the charges and shall be arranged with the Physical Plant Office or other operators outside ViSCA subject to the approval of the Convention Center manager.
9. Activities in the Convention Center must end up not later than 11:30 p.m.
10. The management of the Convention Center will not assume responsibility of any losses of supplies, equipment, props or paraphernalias and etc., left in the Convention Center by the user/s.

Once this proposal is approved by the ViSCA Administration,
be moving towards our vision of making the ViSCA Convention Cent
useful, more productive and more beautiful.

Dominador S. U
DOMINADOR S. U
Principal, VL

8 February 2000

The Chairman
Board of Trustees
ViSCA, Baybay, Leyte

Madam:

This refers to the proposed change in nomenclature of CSI Heads from Vocational School Superintendents II to College Director II by the Commission on Higher Education, through Commissioner Kate C. Botengan.

The undersigned Superintendents and Officer-In-Charge of the Integrated CSI's/External Campuses are asking special favor that instead of a College Director II it should be a Vice President for External Campus; without any change in salary.

It is understood that the position of Vice President for External Campus shall be co-terminus with the incumbent. It is further requested that we be automatically designated as Vice President.


The duties and functions of the Vice President as herein proposed shall be the same as presently done by the VSS II and OIC's of respective CSI's and shall be directly responsible to the President of ViSCA, main campus.


The request if granted will highly bolster the morale of the Head of CSI's and will also project a new image of the ViSCA system.


Likewise, we further request that our diplomas in the forthcoming graduation shall bear the name of ViSCA and the signatories shall be the ViSCA President and the Vice President (concurrently VSS II and OIC) of the CSI's and Board Secretary.

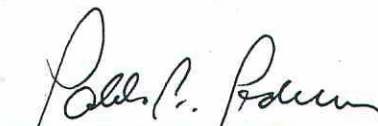
We hope to receive approval of this request in order to promote and preserve unity, solidarity and teamwork in the new system.

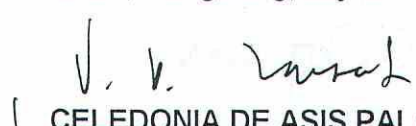
Very truly yours,


VICTOR R. RITAGA
Vocational School Supt. II
INAVS, Isabel, Leyte


TITO C. CEBLANO
OIC - Supt. II
BNAC, Biliran, Biliran


CONCHITA N. ASTROLOGO
VSS II
LNCAST, Villaba, Leyte


PABLO B. PEDRERA
VIS - I & OIC
LSSA, Alangalang, Leyte


CELEDONIA DE ASIS PALAÑA, Ed. D
VSS II
LSSF, Tolosa, Leyte



Republic of the Philippines
OFFICE OF THE PRESIDENT
COMMISSION ON HIGHER EDUCATION

044 H 53

12-

19 November 1999

DR. PACIENCIA P. MILAN

President

Visayas State College of Agriculture

Baybay, Leyte

Dear *Pres. Milan*:

Due to the implementation of the first phase of the integration of CHED-Supervised Institutions (CSIs) to State Universities and Colleges (SUCs), the Commission is proposing new possible titles of certain personnel of the newly integrated CSI to host SUC for consideration and approval of the BOTs/BORs following the guidelines in said integration:

1. Those occupying Vocational Superintendent II positions with Salary Grade of 26 be designated as **COLLEGE DIRECTOR II**, also with Salary Grade 26;
2. Those occupying Vocational Superintendent I positions with Salary Grade of 25 be designated as **COLLEGE DIRECTOR I**, also with Salary Grade 25;
3. Those occupying Vocational Administrator positions be designated as **COLLEGE ADMINISTRATOR**, also with the same salary grade as now occupied.

In this connection, kindly include this as one of the matters for discussion in the next Board meeting.

Thank you.

Sincerely yours,

KATE CHOLLIPAS BOTENGAN

Commissioner and

Chair & Presiding Officer, ViSCA

CSIs_pos
12 nov99
glo

DAP Bldg., San Miguel Avenue, Ortigas Center, Pasig City

**Proposed Duties and Powers
Delegated by the ViSCA Board of Trustees
to CSI Heads**

Resolution No. _____, s. 2000

Approving the following duties and powers of the ViSCA Board of Trustees that are delegated to the CSI Heads effective immediately with the condition that a report be furnished the ViSCA President about actions undertaken by the CSI Heads related to said delegated powers and duties:

1. To sign appointment papers of CSI employees up to Salary Grade 12, subject to approval by the President and confirmation by the BOT;
2. To approve travel papers of CSI employees up to five days within Region VIII;
3. To approve financial documents up to P150,000.00, provided that it is within the approved CSI budget;
4. To approve request for purchase of supplies up to P10,000.00, provided that it is within the approved CSI budget;
5. To approve request for purchase of equipment up to P25,000.00, provided that it is within the approved CSI budget;
6. To approve applications for leave of absence of CSI employees up to 5 days.

-o0o-

Republic of the Philippines
Office of the President
Commission On Higher Education
LEYTE STATE SCHOOL OF FISHERIES
Tolosa, Leyte

January 31, 2000

The President
Leyte Institute of Technology
Tacloban City


Sir:

I have the honor to submit copy of the school's request address to Commissioner
Kate C. Botengan & handwritten note which is self explanatory.

It is therefore requested that said request be given due course, in the meantime
that the MOA between LIT & LSSF is being prepared.

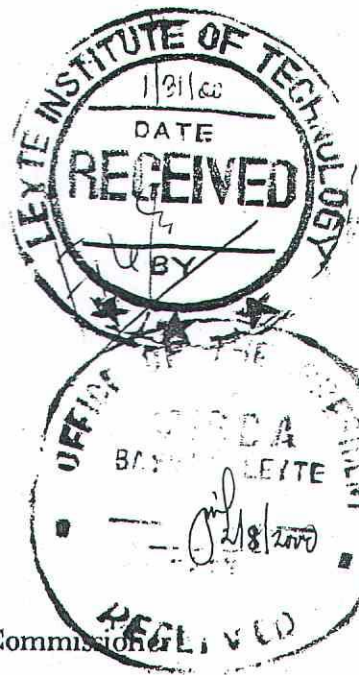
Thank you for your consideration and approval.

Very truly yours,


CELEDONIA DE ASIS PALAÑA, Ed. D.
Superintendent II

Ends:

Note of Kate C. Botengan
LSSF Request



Republic of the Philippines
COMMISSION ON HIGHER EDUCATION
5th Flr., DAP Bldg., San Miguel Ave., Pasig City

No Jan 2000

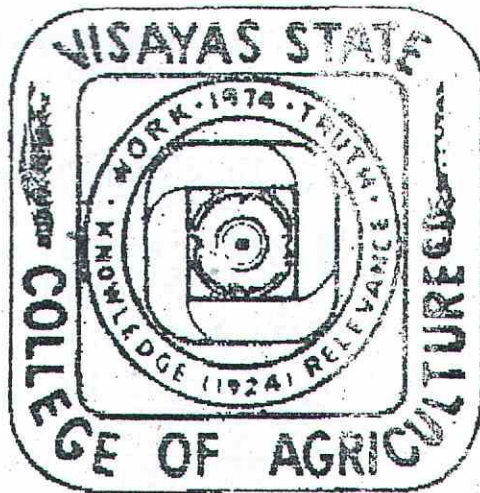
TO: Sgt. C. de Asis Palencia
Legal School of Fishers

Pls contact Pres. G. de la Rosa
of LIT so both of you can confer/
consult with Pres. member of
SLSCST on how they did this
MCA for Transfer of R. Keshan
from DISCA.

Thank you



Kate C. Botengan
Commissioner

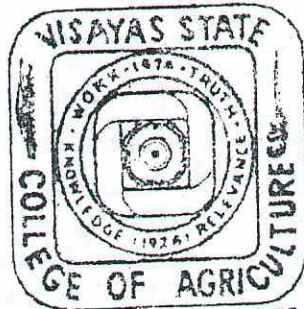


OFFICE OF THE REGISTRAR



SUMMARY

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MagDev	= 1	
BAS	= 13	2
DVM	= 1	2
BSA	= 2	2
BSAB	= 2	2
BSAC	=	
BSAE	= 1	3
BSAgDev	=	
BSAgEd	=	
BSDC	= 1	3
BSF	= 1	3
BSFT	= 1	3
BSHE	=	
BSS	= 22	
RET	=	
TOTAL = 23		



OFFICE OF THE REGISTRAR

LIST OF OF CANDIDATES FOR GRADUATION

First Semester, SY 1999-2000

SUMMARY:

• Ph.D.	=
• M.S.	= 2
• M.Ag.Dev	= 2
• BAS	= 21
• BSA	= 9
• BSAB	= 6
• BSAC	= 1
• BSAE	= 1
• BSAGDev	= 7
• BSAGEd	= 3
• BSF	= 7
• BSFT	=
• BSHE	= 7
• BSS	= 1
• HET	= 2

TOTAL = 69

ACTION MEMORANDUM

TITLE: Confirmation of Candidates for Graduation, 2nd Semester, SY 1999-2000

INFORMATION

The College Registrar reviewed all the requirements for graduation. The Academic Council (AC) approved the list of candidates for graduation and recommended for BOT approval.

ACTION REQUIRED

Approval by the BOT on the list of candidates for graduation for 2nd Sem., SY 1999-2000.

PROPOSED RESOLUTION

Board Resolution No. _____, s. 2000

Approving the list of candidates for graduation for 2nd Semester, SY 1999 - 2000, broken down as follows:

Graduate Program	-	28
Doctor of Philosophy	-	3
Master of Science	-	13
Master in Agricultural Development	-	12
Undergraduate Program	-	401
Bachelor of Animal Science	-	55
Doctor of Veterinary Medicine	-	4
Bachelor of Science in Agriculture	-	91
Bachelor of Science in AgriBusiness	-	57
Bachelor of Science in Ag. Chemistry	-	4
Bachelor of Science in Ag. Engineering	-	5
Bachelor of Science in Ag. Development	-	15
Bachelor of Science in Ag. Education	-	69
Bachelor of Science in Dev. Communication	-	12
Bachelor of Science in Forestry	-	29
Bachelor of Science in Food Technology	-	19
Bachelor of Science in Home Economics	-	33
Bachelor of Science in Statistics	-	8
Non-Degree Program	-	1
Home Economics Technician	-	1
Grand Total	-	430

Board Action: APPROVED

Date: 14 March 2000

VISAYAS STATE COLLEGE OF AGRICULTURE
Baybay, Leyte

December 22, 1999



MEMORANDUM:

FOR: The College President
ViSCA, Baybay, Leyte

RE: Recommendation to Award the Construction of Flood Control System
to Lake City Builders

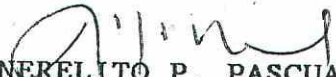
The Prequalification Bids and Awards Committee (PBAC) conducted a public bidding on December 21, 1999 for the construction of Flood Control System at the Conference Room of the Office of the Vice President for Administration.

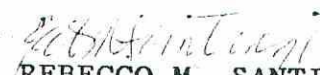
Four (4) prequalified contractors submitted their bid proposals as follows:

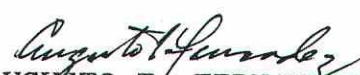
Participating Bidders	Bid Offer
1. Baltonado Const. & Dev. Corp.	₱ 781,555.00
2. JFAP Construction	809,688.68
3. Lake City Builders	748,000.00
4. Venus Eng'g. & Const.	799,000.00

The Approved Agency Estimate (AAE) is ₱ 948,798.97 and the Allowable Government Estimate (AGE) is ₱ 866,679.94. Following the provisions of P.D. 1594, award shall be made to a bid which is not higher than the AGE or the AAE or bids not lower than 70% of the AGE.

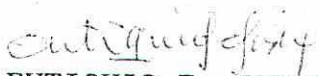
In view of the foregoing, the members of the PBAC unanimously recommend to award the construction of Flood Control System to Lake City Builders its offer being the lowest responsive bid and most advantageous to the government.



NERELITO P. PASCUAL
Chairman
PBAC


REBECCO M. SANTIAGO
Member


AUGUSTO T. FERNANDEZ
Member


NESTOR M. ISRAEL
Member

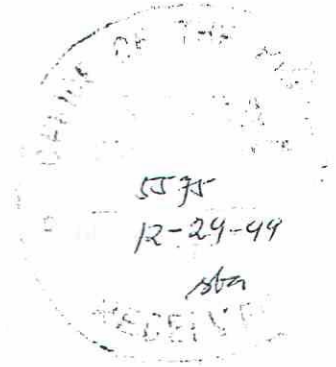

EUTIOQUIO E. SUDARIA
Member


LOURDES B. CANO
Executive Officer

LA P. MILAN
IDENT

VISAYAS STATE COLLEGE OF AGRICULTURE
Baybay, Leyte

December 21, 1999



MEMORANDUM:

FOR: The College President
ViSCA, Baybay, Leyte

RE : Recommendation to Award the Construction of Beach Erosion Control
to Pyramid Construction

The Prequalification Bids and Awards Committee conducted a public bidding on April 29, 1999 for the Construction of Beach Erosion Control Project at the Conference Room of the Office of the Vice President for Administration. Five (5) prequalified contractors submitted their bid proposals as follows:

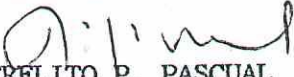
Participating Bidders	Bid Offer
1. Venus Engineering	P 927,840.21
2. ISE Construction	1020,335.07
3. SB & T Construction	811,640.00
4. JFAP Construction	891,574.65
5. Pyramid Consolidated Builders	711,674.40
Approved Agency Estimate (AAE)	949,817.94

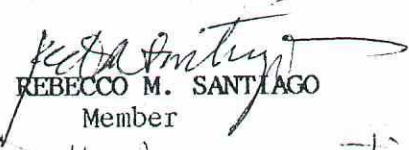
Based on the result of the bidding, the PBAC recommended to the College President to award the project to the lowest responsive bidder Pyramid Consolidated Builders. However, before submitting the award to the ViSCA Board of Trustees for approval, the former College President, Dr. S.S. Go, decided to reduce the scope of work of the project so that the savings can be used to implement a more urgent project.

On August 13, 1999, Dr. Nerelito P. Pascual, College Officer-in-Charge, asked the opinion from the Commission on Audit whether ViSCA can negotiate with the contractor to undertake the project at a reduced scope of work. In its reply dated November 17, 1999, COA interposes no objection to the proposed negotiation since the project was not yet awarded to the winning bidder.

In the negotiation process, the Approved Agency Estimate for the reduced scope of work is P362,707.07 while that of Pyramid Consolidated Builders is P355,000.00.

In view of the foregoing, the members of the PBAC unanimously agreed to award the project, construction of Beach Erosion Control, to Pyramid Consolidated Builders in the amount of P355,000.00.



NERELITO P. PASCUAL
Chairman
PBAC


REBECCO M. SANTIAGO
Member



AUGUSTO T. FERNANDEZ
Member

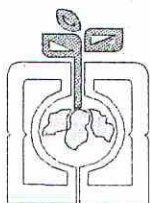

NESTOR M. ISRAEL
Member


EUTQUIO E. SUDARIA
Member


LOURDES B. CANO
Executive Officer/
Secretary

APPROVED:


PACIENCIA P. MILAN
PRESIDENT



PhilRootcrops

The Philippine Root Crop Research and Training Center
Visayas State College of Agriculture
Baybay, Leyte 6521-A, Philippines

E-mail: rootcrop@mozcom.com
Phone and Fax: (053) 335-2616

3/2
2/21/2000
3/21

Office of the Director

E-mail: pardales@mozcom.com
Fax: (053) 335-2767

February 18, 2000

The Honorable Members

ViSCA Board of Trustees
ViSCA, Baybay, Leyte

Thru: **Dr. Paciencia P. Milan**
President, ViSCA

Dear Sirs/Madams:

We, at the Philippine Root Crop Research and Training Center (PhilRootcrops) would like to request your permission for us to name our training hall after Dr. Emiliana N. Bernardo, so that henceforth our training hall will be known as the **E. N. Bernardo Hall**. This hall is just a part of an extension edifice of the PhilRootcrops administration building.

Dr. E. N. Bernardo was the second Director of PhilRootcrops. It was through her initiative, determination and effort that the present structure where our training hall is located was built after realizing that as a research and training center PhilRootcrops did not have a training facility. We would like also to recognize Dr. Bernardo because her exemplary management style as a research administrator and her strong dedication to her work as scientist had significantly contributed in shaping up the young minds then of the Center's staff to value hard work, discipline, integrity and academic excellence. Dr. Bernardo's young staffs during her term as Director now constitute the core research and training staff of PhilRootcrops.

It is our plan to dedicate the PhilRootcrops Training Hall to Dr. Bernardo during our 23rd anniversary celebration on March 21, 2000 in which Dr. Bernardo, herself, will be attending.



We hope for your favorable action on this request.

Thank you.

In behalf of PhilRootcrops staff,


Jose R. Pardales Jr.
Officer-in-Charge

cc: Prof. DM Tudit


BOT


VISAYAS STATE COLLEGE OF AGRICULTURE

Baybay, Leyte 6521-A

March 9, 2000

Academic Council

Thru: The President
Visayas State College of Agriculture
Baybay, Leyte

Members:

We wish to present to the Academic Council the tentative list of candidates for latin honors subject to compliance all the requirements for graduation with honors on or before the deadline. Other names may be included in the list provided that they qualify and meet the requirements on time.

We wish to request further that Mr. Jerome B. Labra, who was inadvertently excluded in the list of latin honor mates during the school year 1997-1998 be included in the list of latin honors and be given due public recognition.

Name	Degree	Subjects Enrolled	GPA	Tentative Honor
AMAR, Rose Imee Zhella G.	BS Stat	CS 142, Stat 142, Stat 190, Stat 199, FS 121, SCSC 14	1.456 (as of midterm)	Cum Laude
MAZO, Emily A.	BSA	AgEc141, AgEc142, AgEc114, AgEc199, AgEc200, AE 50	1.514 (as of midterm)	Cum Laude
CARPIO, Babylyn D	BSA	AgEc141, AgEc142, AE 50, AgEc114, AgEc199, AgEc200	1.546 (as of midterm)	Cum Laude
YBANEZ, Rechal M.	BSA	AE 50, SS 116, SS 144, Agrol44, SS 199, SS 200	1.589 (as of midterm)	Cum Laude
BERTULFO, Bing L.	BSAGED	AgEd199, Aged200.3	1.625 (as of 1 st Sem.)	Cum Laude
VARRON, Rizalina A.	BSAB	AB 199, AB 200A	1.652 (as of 1 st Sem.)	Cum Laude
ALCOBER, Ed Allan L.	BSA	AE 50, AgEx132, Hort143, Hort144, Hort199, Hort200	1.686 (as of midterm)	Cum Laude
SEBIAL, Marilyn C.	BSA	AE 50, SS 116, SS 144, Agrol44, SS 199, SS 200	1.696 (as of midterm)	Cum Laude
LABRA, Jerome B.	BSDC		1.706 (as of 2 nd Sem. 1997-98)	Cum Laude

Very truly yours,

V. A. Quiton
VICENTE A. QUITON
Vice President of Academic Affairs

TESTED:

Linda N. Mariscal
LINDA N. MARISCAL
Registrar

**PROPOSAL TO CHANGE THE PREREQUISITE COURSE OF HORT173
(INTRODUCTION TO PLANT TISSUE CULTURE) FROM
AGBOT 115 (PLANT GROWTH AND DEVELOPMENT)
TO AGBOT 113 (PLANT PHYSIOLOGY)**

RATIONALE

HORT 173 (Introduction to Plant Tissue Culture) deals with the basic principles and practices of plant tissue culture techniques. The introductory part of the course reviews relevant topics discussed in the prerequisite course, AGBOT 115 (Plant Growth and Development) particularly those factors that influence or affect morphogenesis. Most of the topics that are discussed in HORT 173 also covers the working principles taken up in AGBOT 115. In addition, the laboratory exercises of HORT 173 adequately demonstrate the important principles and processes taking place during the growth and development of plants. Thus, it is evident that the removal of AGBOT 115 as the prerequisite course of HORT 173 will not necessarily sacrifice the preparedness of horticulture majors to take the course on plant tissue culture. In addition, many of the basic aspects about plant growth and development are adequately discussed in AGBOT 113 (Plant Physiology) which is a core course for horticulture majors. Thus, it is hereby proposed that the prerequisite course of HORT 173 be changed from AGBOT 115 to AGBOT 113.

The change of prerequisite will also enable the early offering of HORT 173. At present, it is offered in the second semester of the fourth year because the prerequisite course can only be taken during the first semester of the same year. This is already too late for those who are specializing in plant tissue culture because they usually start conducting their thesis experiment in summer after their third year. As a result, thesis students encounter technical difficulties because of lack of necessary skills in plant tissue culture techniques. The change of prerequisite will enable the students to enrol in HORT 173 as early as the second semester of their third year because by then they will have taken the proposed prerequisite course.

Course Number	:	HORT 173 (Introduction to Plant Tissue Culture)
Course Description	:	Plant Tissue Culture. Principles of aseptic culture and basic techniques of plant, cell, tissue and organ culture.
Credit	:	3 units
Contact Hours/Week	:	2 hours lecture; 3 hours laboratory
Semestral Offering	:	Second Semester of 4th year horticulture majors
Present Prerequisite	:	AGBOT 115 (Plant Growth and Development)
Course Description	:	Natural processes and control of growth and development in plants.
Credit	:	3 units
Contact Hours/Week	:	2 hours lecture; 3 hours laboratory
Semestral Offering	:	First Semester of 4th year horticulture majors

Proposed Prerequisite

Course Number	:	AGBOT 113 (Plant Physiology)
Course Description	:	Plant factors and processes; uptake, translocation, metabolism, growth reproduction and senescence
Credit	:	3 units
Contact Hours/Week	:	2 hours lecture; 3 hours laboratory
Semestral Offering	:	First Semester of 3rd year horticulture majors

PROPOSAL TO CHANGE
English 23 (Writing the Essay) to
English 24 (Writing the Scientific Paper)
Effective the First Semester SY 2000-2001

JUSTIFICATION

The BS Development Communication (BSDC) students choosing Option B (Internship) have been required to take English 13 (Writing the Scientific Paper). When changes in course numbering was implemented, the department did not notice that English 13 (Writing the Scientific Paper) was changed to English 24 and not English 23. English 23 is Writing the Essay.

When Professor Norberto F. Canada was the Head of the Department of Arts and Letters, he called our attention on this matter. So, the DDC Curriculum Committee integrated into the revised BSDC curriculum the necessary changes. Since the College Curriculum Committee decided to delay action on all the proposed revisions because of the proposed adjustments to be made on the number of social science units to be accommodated, as mandated by CHED, the department feels the need to get a special approval for the change in course number and description, i.e. from English 23 (Writing the Essay) to English 24 (Writing the Scientific Paper). Both English 23 and English 24 have three (3) credit units each.

With the change, BSDC (Option B) students will take English 24 (Writing the Scientific Paper).

PROPONENT: Department of Development Communication

FN:BSAERE1B.PBO

Th240200

PROPOSAL TO REVISE THE BACHELOR OF SCIENCE IN
AGRICULTURAL ENGINEERING (BSAE) CURRICULUM

Rationale:

The Bachelor of Science in Agricultural Engineering (BSAE) curriculum has been offered in ViSCA since 1975. The first curriculum required thesis for graduation. In 1985, it was revised to provide a field practice option as a requirement for graduation and to institute three 2-unit in-campus practicum subjects. This curriculum remained unchanged up to the present. To respond to the changing needs of time and achieve relevant and dynamic education, there is a need to revise the present BSAE curriculum; hence, this proposal.

The proposed revision takes into account important considerations which include the minimum requirements of academic units set by the Technical Panel for Agricultural Education (TPAE) for the BSAE program and the elimination of summer offerings; reduction of the required 6 mathematics subjects spread in 3 years to 5 subjects, maintaining the same number of units, in a span of 2.5 years; reduction in the number of shop practices; fusion of some engineering subjects; correction of subjects with inadequate prerequisites; elimination of practicum courses; institution of important subjects such as computer programming and ecology; and proper scheduling of courses. These changes will result in a more efficient teaching in the part of the instructor and avoid make-ups that add burden on the part of the students.

The existing schedule of math and AE courses resulting from the sequence of prerequisites until fifth year pushes the required major subjects necessary for thesis preparation to the 2nd semester of 4th and 1st semester of 5th year. Because of inadequate time for thesis preparation, students have difficulty completing their requirements on time. This is the reason why many students opted for field practice instead of thesis. The proposed revision will reduce the number of required math courses and the fusion of some engineering subjects make it possible to schedule the required AE courses that would prepare students to conduct their thesis/field practice at the end of 4th year and have more time to complete the requirements during the summer and during the fifth year.

ViSCA being the center for research in agriculture in the Visayas and Mindanao regions must spearhead such efforts by attracting potential students beginning with the proper training in undergraduate research. However, undergraduate thesis as a requirement must not be extensive and exhaustive in nature but rather as a training to help students develop appreciation and understanding of what research is. Graduates of this curriculum therefore must be well-prepared to undertake a more exhaustive independent research work required in the graduate study in agricultural engineering.

A proposed numbering scheme for agricultural engineering subjects is also presented.

Employment Opportunities

1. Instructors of mathematics, physics, computer science and agricultural engineering courses in state colleges and universities;
2. Agricultural engineers, project managers and technical staff in the Department of Agriculture, National Food Authority (NFA), National Irrigation Administration (NIA), Philippine Invention Development Institute (PIDI), National Postharvest Institute for Research and Extension (NAPHIRE), and other agencies involved in rural development;
3. Agricultural machine designer and manufacturer;
4. Agricultural engineering researchers in academic and non-academic institutions;
5. Project engineers, inspectors and supervisors; and sales engineers; and
6. Self employment as contractors of farm buildings and structures.

Graduate Profile

1. Knowledge

- 1.1 Understand general agricultural engineering concepts and principles
- 1.2 Integrate basic theories, principles and practices in animal and production and farm management with agricultural engineering concepts and principles;
- 1.3 Possess adequate knowledge of crop processing, soil and water conservation, farm structures, farm powers and machineries, and electrification; and
- 1.4 Know the processes of making wise decision in the use of available resources for doing engineering jobs, and the methods and procedures of interpreting data and information for planning and development

2. Attitude

- 2.1 Appreciate the importance of agricultural engineering profession in rural development;
- 2.2 Value the importance of agricultural engineering research in facilitating rural development;
- 2.3 Appreciate the role of systematic planning and decision making in solving engineering problems in the farm;
- 2.4 Show sensitivity to human needs and social problems especially their implication to agricultural engineering; and

- 2.5 Aware of the responsibilities and obligation of agricultural engineers with understanding of one's strength and limitation.

3. Skills

- 3.1 Operate and maintain effectively different agricultural tools, machines and equipment;
- 3.2 Design and develop appropriate machines and effective ways of doing things to promote better living of the people;
- 3.3 Use engineering research finding to improve the home, community, and work environment;
- 3.4 Demonstrate managerial skills in the performance of the various tasks related to agricultural engineering profession;
- 3.5 Solve mathematical and engineering problem effectively with appropriate method, formula or procedure.

COURSE CHANGES:

Institution of Courses

- 1.1 MATH 112- ANALYTIC GEOMETRY AND CALCULUS I- Rectangular coordinates; straight line, circle and conic sections; functions and their graphs; limits and continuity, techniques of differentiation and applications; transcendental functions.

Prerequisite: Math 22 (Plane Trigonometry)
5 hours a week (lec)
Credit: 5 units

Rationale:

Teaching analytical geometry and calculus as a separate course as done in the present curriculum is already an obsolete method. Geometric analysis goes hand in hand in discussing mathematical concept to obtain a healthy balance of interpretation on the part of the students, thus resulting in a more efficient method of teaching. Discussion on calculus matters always requires the geometric approach. Therefore it is just proper to adopt the sequel calculus and analytic geometry. Most references and textbooks are already adopting the sequel. Also, most engineering schools are adopting the analytic geometry and calculus combined approach.

Five contact hours of lecture per week (or equivalent to 5 units) is necessary because of the extensive coverage of the course equivalent to a 2-semester course and requires more time for class discussion. This is also the standard credit units adopted for this course in other engineering schools.

1.2 MATH 113- ANALYTIC GEOMETRY AND CALCULUS II- Definite integral and areas; techniques of integration and applications; curves and areas in polar coordinates; parametric equations; arc and curvature; geometry and calculus in plane and 3-D space vectors,

Prerequisite: Math 112 (Analytic Geometry & Calculus I)
5 hours a week (1ec)

Credit: 5 units

Rationale:

The course is the continuation of Math 112 (Analytic Geometry and Calculus I) in which the calculus part deals with integration. Like Math 112, the discussion on calculus matters in Math 113 always requires the geometric approach.

The approach also integrates important topic in vector calculus not included in the existing curriculum.

Five contact hours of lecture per week is necessary because of the extensive coverage of the course which requires more time for class discussion.

1.3 MATH 114- CALCULUS III AND DIFFERENTIAL EQUATIONS- Partial differentiation, multiple integrals and applications; infinite series; differential equations and applications, differential operators and transforms, power and Fourier series, partial differential equations.

Prerequisite: Math 113 (Analytic Geometry & Calculus II)
5 hours a week (1ec)

Credit: 5 units

Rationale:

The proposed math course integrates the last part of higher calculus and differential equations into a 5-unit semester course in preparation for their important applications to thermodynamics and heat transfer at the second semester of third year. This way all mathematics required for engineering and other applied physical sciences can be completed in 2.5 years instead of 3 years under the current program.

Five contact hours of lecture per week is necessary because of the extensive coverage of the course which requires more time for class discussion.

1.4 AE 131- ENGINEERING GRAPHICS II- Use of computer software packages such as Autocad and other CADs in engineering drawing.

Prerequisite: AE 122 (Engineering Graphics I) and CS 21 (Fundamentals of Processing and Microcomputer Operations)
4 hrs a week (1 lec, 3 lab)

Credit: 2 units

Rationale:

Availability of computer software packages for making engineering plans and drawing/graphics have made planning more easy, faster and economical, and acquiring expertise on the application of such softwares will be to the advantage of the student in terms of knowledge and employment.

A lecture of 1 hour and 3 hours hands-on lab contact per week equivalent to a 2-unit course would suffice to cover the topics described.

- 5 CS 21- FUNDAMENTALS OF DATA PROCESSING AND MICROCOMPUTER OPERATIONS- History and development of computers, computer hardware and software, theories and applications of operating systems, application of software packages such as wordprocessor, spreadsheet, and database management system; concepts of management information system.

Prerequisite: Math 11- College Algebra
5 hrs a week (2 lec, 1 lab)
Credit: 3 units

Rationale:

With the advancement in information technology, computer literacy has become an important requirement for employment. Realizing the need for computer-literate professionals, the government has launched a computer literacy campaign through the passage and implementation of Republic Act 8174 which provided government agencies and state universities and colleges (SUCs) with computer hardware, software and technical know-how. Through the Commission on Higher Education, these facilities were granted to SUCs for instruction purpose. In view of this, DAEAM proposes to institute a general computer course which can be added to the curricula of Bachelor of Science degree programs offered in the ViSCA. The purpose is to equip ViSCA graduates with a sound grasp of computing fundamentals to increase level of preparedness for local and global competitions in their chosen profession.

To be able to discuss intelligently the operation and utilization of computers, topics of development of computers and typical aspects of the physical organization of a computer system should be presented. Wordprocessing, spreadsheet and database processing are the three major applications of computers, including the concepts of management information system.

- 6 CS 134- PRINCIPLES OF COMPUTER PROGRAMMING - Concepts of algorithm and programming concept, levels of programming languages and their applications; program structure, data types, flow of control, data structures and subroutines; files and external subprograms.

Prerequisite: CS 21 (Fund. of Data Processing & Microcomputer Operations)
5 hrs a week (2 lec, 3 lab)
Credit: 3 units

Rationale:

The existing courses on computer programming introduce programming languages which were popular in the 80's. Because of the limitations of these languages in

1 software development, they have become less popular nowadays. This propose
2 course for institution will emphasize on the concept of programming and will
3 introduce a block structured-language which is ideal for a first course in
4 computer programming. Because of the block-structured nature of the language
5 concepts can be emphasized better.
6

7 Thus, the students can easily be trained to adopt the structured programming
8 techniques which is the technique that modern computer programmers adopt.
9

10 2. Fusion of Courses and/or Changes in Course Title, Descriptions, Prerequisites,
11 of Contact hours and Units.
12

13 2.1 From:

14 AE 128- STATICS- Principles of equilibrium of rigid bodies; analysis of
15 structures; first and second moments of mass, volume, area and length.
16

17 Prerequisite: Math 23 (Analytic Geometry)

18 3 hrs a week (lec)

19 Credit: 3 units
20

21 and

22
23 AE 131- DYNAMICS- Kinematics and kinetics of rigid bodies in motion; force
24 and acceleration relationships; work; energy, impulses and momentum;
25 mechanical vibrations.
26

27 Prerequisite: AE 128 (Statics)

28 3 hrs a week (lec)

29 Credit: 3 units
30

31 TO:

32 AE 135- ENGINEERING MECHANICS- Principles of equilibrium of rigid bodies
33 analyses of structures, moments of length, area, volume and mass; planar
34 rigid body kinematics, Newton's laws of motion, work-energy, linear and
35 angular momentum principles.
36

37 Prerequisite: Physics 21 (College Physics) & Math 113 (Analytic Geometry
38 Calculus II)

39 5 hrs a week (lec)

40 Credit: 5 units
41

42 Rationale:

43
44 Statics and dynamics of rigid bodies are mechanics of engineering which
45 be conveniently combined into a 5-unit semester course for efficient teaching
46 easy understanding by the students. This will enable the students to compare
47 and differentiate a body at rest and in motion readily, and thus analysis is
48 made accordingly.
49

50 The reduction of the number of units from 6 to 5 is possible since it
51 already discusses basic concepts of kinematics and dynamics of particles
52

53 The change in the course number is in keeping with our numbering
54 scheme for all AE subjects as presented on page 22.
55
56

2 From:

AE 136- THERMODYNAMICS- Basic laws of thermodynamics; characteristics of gases, vapor and mixtures.

Prerequisite: Math 123 (Integral Calculus)
3 hrs a wk (1ec)
Credit: 3 units

and

AE 143- HEAT TRANSFER- Analysis and application of steady state and transient heat conduction; radiant heat transfer; spectral properties, radiation networks, natural and forced convection transfer of heat and mass in boundary layer and in fluids with phase change.

Prerequisite: AE 136 (Thermodynamics)
3 hrs a week (1ec)
Credit: 3 units

To:

AE 136- THERMODYNAMICS AND HEAT TRANSFER- Basic laws of thermodynamics; characteristics of gases, vapor and mixtures; laws governing heat transfer and their applications to insulators and heat exchangers such as condensers, cooling coils and evaporators.

Prerequisite: Physics 21 (College Physics) and Math 114 (Calculus III)
5 hrs a week (1ec)
Credit: 5 units

Rationale:

Combining thermodynamics and heat transfer into a 5-unit course minimizes or avoids repetitive discussion of certain topics since both subject matters are only dealing with heat and gases. Thus, flow of discussion is efficient and smooth and allows more time in problem solving exercises.

The fusion into a one-semester course, as done in many engineering schools, is an important prerequisite of a course scheduled in the following semester.

Reduction of units from 6 to 5 units is possible because repetitive discussion of certain topics in the unfused courses is eliminated.

2.3 From:

AE 122- FARM SHOP PRACTICE I- Working plans interpretation; bill of materials; use and reconditioning of common hand tools; wood working, painting, varnishing and brazing.

Prerequisite: AE 121 (Eng'g. Graphics)
7 hrs a wk (1 lec, 6 lab)
Credit: 3 units

and

AE 133- FARM SHOP PRACTICE II- Operations of hand and power tools; working plans; welding, concrete and masonry; plumbing; water supply and sewage disposal; electrical wiring; and other shop practices.

Prerequisite: AE 122 (Farm Shop Practice I)
7 hrs a wk (1 lec, 6 lab)
Credit: 3 units

To:

AE 132- SHOP PRACTICES- Shop safety; use and maintenance of shop tools and equipment; woodworking, metal, concrete and masonry work, plumbing, painting & varnishing.

Prerequisite: AE 122 (Engineering Graphics I)
7 hrs a week (1 lec, 6 lab)
Credit: 3 units

Rationale:

Several topics in AE 122 (Shop Practice I) and AE 133 (Shop Practice II) such as working plans interpretation, bill of materials, water supply and disposal, and electrical wiring are taken in other major subjects. Therefore becomes unnecessary to repeat them in this course. A total of 3-unit semester with 6 hours per week laboratory would be enough for the course, as a requirement in most engineering courses.

3. Change in Course Nomenclature, Description, Prerequisite and/or Credits

3.1 FROM:

AE 132- KINEMATICS- Analysis of mechanisms and designs of machine; dynamics in machinery.

Prerequisite: AE 131 (Dynamics)
5 hrs a wk (2 lec, 3 lab)
Credit: 3 units

To:

AE 138- DYNAMICS OF MACHINERY- Analysis of mechanisms and design of machine elements; vibrations; dynamic forces in machinery.

Prerequisite: AE 135 (Eng'g Mechanics)
5 hrs a week (2 lec, 3 lab)
Credit: 3 units

Rationale:

The change in title is necessary since analysis of mechanisms normally involves the external forces that cause the motion. The previous course limits the analysis to motion only without the consideration of the cause of motion making the analysis incomplete. Furthermore, it is also necessary to determine the forces of the moving members in order to establish the correct motion of such member. This can be achieved using the principles of dynamics to mechanisms.

The change in course number, including those in the following items, is in keeping with the proposed numbering scheme for all AE courses offered by the degree program (See course numbering scheme on page 25)

2 From:

AE 147- MACHINE DESIGN- Designing agricultural machinery and equipment.

Prerequisite: AE 132 (Kinematics)

5 hrs a week (2 lec, 3 lab)

Credit: 3 units

To:

AE 153 MACHINERY DESIGN- Principles of designing machine elements and machinery; modern machine controls.

Prerequisite: AE 138 (Kinematics & Dynamics of Machinery)

5 hrs a week (2 lec, 3 lab)

Credit: 3 units

Rationale:

The former course title and description are too general to comprehend. One may interpret them as designing a particular machine only to which one is familiar with. Besides, the course is introductory in nature. Hence, it is imperative to start with the principles of designing of machine element.

3 From:

AE 126- ELECTRONICS & ELECTRICAL ENGINEERING- Electric circuits and devices, electromagnetic gadgets.

Prerequisite: Physics 21 (College Physics)

5 hrs a wk (2 lec, 3 lab)

Credit: 3 units

To:

Ae 154- ELECTRONICS AND INSTRUMENTATION- Electrical circuits and analysis; electronic devices and application; measurement techniques and improvisation of devices.

Prerequisite: Math 114 (Calculus III & Differential Equations)
and Physics 21 (College Physics I).

5 hrs a week (2 lec, 3 lab)

Credit: 3 units

Rationale:

The modern method of measuring and gathering data employs the use of electrical signals. Forces, temperature, humidity and others are now conveniently measured with the use of microcurrent signals and amplified to make them readable. Accuracy of data, however, depends on the instruments and the method of connecting these instruments. The students must learn its principles and techniques of electronics and instrumentation. Furthermore, since instrumentation involves mathematical models, Math 114 is the appropriate prerequisite.

3.4 From:

AE 134- FLUID MECHANICS- Principles of hydrostatics, hydraulics, hydromechanics and aerodynamics.

Prerequisite: AE 128 (Statics)

3 hrs a week (1ec)

Credit: 3 units

To:

AE 134- FLUID MECHANICS- Statics and dynamics of fluids; control volume analysis; fundamentals of similitude and dimensional analysis; flow measurements in pipes and channels, introduction to hydrodynamics.

Prerequisite: AE 135 (Eng'g Mechanics)

6 hrs a week (3 lec, 3 lab)

Credit: 4 units

Rationale:

The former description does not reflect similitude, dimensional analysis, flow measurements which are essential topics in fluid mechanics required in engineering applications.

Because of the extensive coverage of fluid mechanics, like that of the statics and dynamics of solid bodies (or engineering mechanics), the increase in credit to 4 units is necessary. The increase in units also satisfies the minimum number of units and laboratory requirement for fluid mechanics specified by TPAE for BSAE curriculum. Also, our hydraulic lab in the department for this important course has not been in use since the existing fluid mechanics subject has no laboratory component.

3.5 From:

AE 138- ENGINEERING MATERIALS- Properties, selection and evaluation of engineering materials, and standard material specification.

Prerequisite: AE 137 (Strength of Materials)

5 hrs a wk (2 lec, 3 lab)

Credit: 3 units

To:

AE 137- ENGINEERING MATERIALS- Structure, properties, and uses of engineering materials; evaluation, selection and standard specifications of materials

Prerequisite: Physics 21 (College Physics)

5 hrs a week (2 lec, 3 lab)

Credit: 3 units

Rationale:

Subject matter discussion is purely descriptive and reporting type and does not deal with math analysis of the materials in terms of strength. The appropriate prerequisite should be Physics 21, instead of AE 134 (Strength of Materials) since large portion of the subject is on physical and chemical properties of materials.

3.5 From:

AE 153- ENVIRONMENTAL CONTROL ENGINEERING- Analysis and design of environmental control in agriculture with emphasis on tropical conditions.

Prerequisite: AE 142 (Ag. Structures)

5 hrs a wk (2 lec, 3 lab)

Credit: 3 units

To:

AE 156- ENVIRONMENTAL CONTROL ENGINEERING- Analysis and design of environmental control systems in agriculture; waste characterization, recycling, treatment and pollution control.

Prerequisite: AE 136 (Thermodynamics & Heat Transfer)
5 hrs a week (2 lec, 3 lab)
Credit: 3 units

Rationale:

Utilization of waste and pollution control are important topics related to environmental control; hence, the inclusion in the course description.

6 From:

AE 159- CROP PROCESSING- Drying and storage of farm products; design, operation and maintenance of processing equipment.

Prerequisite: AE 143 (Heat Transfer)
5 hrs a week (2 lec, 3 lab)
Credit: 3 units

To:

AE 161- (Same course title and description)

Prerequisite: AE 136 (Thermodynamics and Heat Transfer)
5 hrs a week (2 lec, 3 lab)
Credit: 3 units

Rationale:

The fusion of thermodynamics and heat transfer into a semester makes it necessary to have this subject a prerequisite.

7 From:

AE 152- ENG'G. SPECIFICATION AND CONTRACT- Project specification, contract monitoring, cost analysis and evaluation.

Prerequisite: AE 142 (Agricultural Structures)
3 hrs a week (lec)
Credit: 3 units

To:

AE 184- ENG'G SPECIFICATIONS, CONTRACTS AND ETHICS- Project specifications, bids and awards; contract preparation; Philippine agricultural engineering law, ethics and public relations.

Prerequisite: 5th year Standing
3 hr a week (lec)
Credit: 3 units

Rationale:

Topic on cost analysis and evaluation of project will be covered under AE 182 (Engineering Economy) and AE 152 (Ag Structures). Discussion will focus on the practices of agricultural engineering profession, contract and specifications,

1 including professional ethics and public relations.
2

3 A prerequisite of 5th year standing is required to make sure that
4 student has taken most of the major subjects.
5

6 **3.8 From:**

7 AE 144- FARM POWER- Internal combustion engines; cycle analysis; fuel
8 ignition system; lubrication; and cooling; power transmission, tr
9 selection and management.
10

11 Prerequisite: AE 136 (Thermodynamics)

12 3 hrs a week (1ec)

13 Credit: 3 units
14

15 **To:**

16 AE 159- AGRICULTURAL POWER- Sources and uses of non-conventional pow
17 combustion engines; cycle analysis; fuel and ignition system; lub
18 cooling; power transmission, tractor selection and management.
19

20 Prerequisite: AE 136 (Thermodynamics & Heat Transfer)

21 3 hrs a week (1ec)

22 Credit: 3 units
23

24 **Rationale:**

25 The inclusion of the topic on non-conventional power is necessar
26 technology is mature and the fact that it is given an emphasis by the
27 The principles of energy generation and its importance to agriculture
28 clearly understood by the students.
29
30

31 **3.9 From:**

32 AE 139- ENGINEERING ECONOMY- Investment in engineering projects, farm
33 and equipment as affected by time, economic decision problems and
34 engineering projects; financial mathematics.
35

36 Prerequisite: Econ 21 (Farm Management)

37 3 hrs a week (1ec)

38 Credit: 3 units
39

40 **To:**

41 AE 182- ENGINEERING ECONOMY- Time value of money, equipment and struc
42 economic decision problems, criteria, and management of engineeri
43 feasibility study.
44

45 Prerequisite: Econ 21 (Farm Management) and AE 152 (Ag. Structures)

46 3 hrs a week (1ec)

47 Credit: 3 units
48

49 **Rationale:**

50 The content is expanded to include feasibility study and manage
51 engineering projects such as planning, construction, operation, mainte
52 monitoring to emphasize their importance in engineering economics. AE
53 Structures) is added as a prerequisite since this subject includes top
54 material cost estimates in the design of a farm structure. Scheduling
55 5th year will ensure that the student has already taken most of the ma
56

subjects.

From:

AE 137- STRENGTH OF MATERIALS- Elementary stress and strain analyses; design of structural elements based on equilibrium and material properties.

Prerequisite: AE 128 (Statics)

3 hrs a week (1ec)

Credit: 3 units

To:

AE 142- STRENGTH OF MATERIALS- Elementary stress and strain analyses; design of structural elements based on equilibrium and material properties; analyses of joints and connections.

Prerequisite: AE 135 (Engineering Mechanics)

3 hrs a week (1ec)

Credit: 3 units

Rationale:

Most failures in any engineering structures are in the joints and connections which are overlooked in the design. Thus, these topics are added in the description of the course to emphasize their importance. Knowledge of materials properties is also necessary as a prerequisite required in the analysis of strength.

From:

AE 141- THEORY OF STRUCTURES- Theory of stress analysis as applied to structure subjected to static and dynamic loads; algebraic and graphical analysis of beams, trusses, portals and building frames.

Prerequisite: AE 138 (Engineering Materials)

3 hrs a week (1ec)

Credit: 3 units

To:

AE 151- STRUCTURAL DESIGN- Design principles and applications to timber, reinforced concrete and steel structures subjected to static and dynamic loads.

Prerequisite: AE 142 (Strength of Materials) & AE 137 (Eng'g Materials)

5 hrs a week (2 lec, 3 lab)

Credit: 3 units

Rationale:

The former stresses only on the theoretical aspects of the structural design. However, agricultural structures are not as complicated in design compared to multistorey urban structures. Thus, the theoretical aspects can be integrated with application to designing of structures commonly found in the farm. Designing aspects of the course require laboratory.

1 3.12 From:

2 AE 142- AGRICULTURAL STRUCTURES- Principles of structural design; planning
3 buildings; cost estimate and specifications.

4
5 Prerequisite: AE 141 (Theory of Structures)
6 5 hrs a week (2 lec, 3 lab)
7 Credit: 3 units
8

9 To:

10 AE 152- AGRICULTURAL STRUCTURES- Planning and design of farm buildings and
11 structures; cost estimate and specifications.

12
13 Prerequisite: AE 151 (Structural Design)
14 5 hrs a week (2 lec, 3 lab)
15 Credit: 3 units
16

17 Rationale:

18
19 The proposed change in description focuses on planning, designing, cost
20 estimation and specifications of common farm buildings and structures. Due
21 extensive coverage of structural design, this aspect will be removed from
22 former description and be included as a subject matter under AE 151 (Structural
23 Design).
24

25 3.13 From:

26 AE 151- REFRIGERATION ENGINEERING- Refrigeration cycle; air conditioning
27 duct sizing and fan selection; refrigerants and their properties.

28
29 Prerequisite: AE 143 (Heat Transfer)
30 3 hrs a week (1lec)
31 Credit: 3 units
32

33 To:

34 AE 172- REFRIGERATION AND AIR CONDITIONING- (Same description)

35
36 Prerequisite: AE 136 (Thermodynamics and Heat Transfer)
37 3 hrs a week (1lec)
38 Credit: 3 units
39

40 Rationale:

41
42 Air conditioning of stored products in the building/structure is an
43 component of storage for maintaining good quality product and longshelf
44 Since it is equally as important as refrigeration, it should be reflected
45 course title together with refrigeration.
46

47 3.14 From:

48 AE 145- HYDROMETEOROLOGY- Climatic elements; analysis of rainfall, infiltration,
49 evaporation, transpiration and runoff.

50
51 Prerequisite: AE 134 (Fluid Mechanics)
52 5 hrs a week (2 lec, 3 lab)
53 Credit: 3 units
54
55
56

To:

AE 155- HYDROMETEOROLOGY- Climatic elements; analysis of rainfall, infiltration, evaporation, transpiration, runoff; elements of groundwater hydrology.

Prerequisite: AE 134 (Fluid Mechanics)

5 hrs a week (2 lec, 3 lab)

Credit: 3 units

Rationale:

The scope of hydrology extends to groundwater flow and should be indicated in the course description.

15 From:

AE 146- WATER MANAGEMENT ENGINEERING- Measurement of water flows; design, construction and maintenance of irrigation, drainage and erosion control facilities; planning irrigation and drainage systems; pump selection, legal aspect of water use and disposal.

Prerequisite: AE 145 (Hydrometeorology)

5 hrs a week (2 lec, 3 lab)

Credit: 3 units

To:

AE 157- WATER MANAGEMENT ENGINEERING- Basic soil-water-plant relationships; water flow measurements; planning, design, construction, maintenance of pumping and gravity types of irrigation and drainage systems and their water control facilities; administrative and legal aspects of water use and disposal.

Prerequisite: AE 134 (Fluid Mechanics)

5 hrs a week (2 lec, 3 lab)

Credit: 3 units

Rationale:

Basic soil-water-plant relationship is included in the course description as an important topic since it is a requirement in planning and designing of any irrigation system.

The prerequisite is changed to AE 134 since the basic concepts of fluid flows are only needed as prerequisite in the discussion of water management engineering.

16 From:

AE 155- SOIL AND WATER CONSERVATION ENGINEERING- Agricultural hydrology, flood control and structures; diversion and waterways; relationship between management and soil-water conservation; land clearing, development and formation.

Prerequisite: AE 146 (Water Management Engineering)

5 hrs a week (2 lec, 3 lab)

Credit: 3 units

To:
AE 158- SOIL AND WATER CONSERVATION ENGINEERING- Flood and soil erosion
their control; design and management of soil and water conservation
such as dams, spillways, conveyance structures and waterways; land clearing
and forming.

Prerequisite: AE 157 (Water Management Eng'g)
5 hours a week (2 lec, 3 lab)
Credit: 3 units

Rationale:

Agricultural hydrology in the former description is deleted since it
is already discussed in hydrometeorology, while soil erosion and its control
given emphasis in the new description of the course.

3.17 a) From:
AE 121- ENGINEERING GRAPHICS- Basic and technical practices of drawing

Prerequisite: Math 22 (Plane Trigonometry)
7 hrs a week (1 lec, 6 lab)
Credit: 3 units

To:
AE 122- ENGINEERING GRAPHICS (Same description, prerequisite, number
and credit)

b) From:
AE 123- FUNDAMENTALS OF SURVEYING

To:
AE 133- FUNDAMENTALS OF SURVEYING (Same description, prerequisite,
hours and credit)

c) From:
AE 148- AG. MACHINERY AND EQUIPMENT MANAGEMENT

To:
AE 162- AG. MACHINERY AND EQUIPMENT MANAGEMENT (Same description,
prerequisite, number of hours and credit)

Rationale:

The change in course number of the above courses is in keeping with
proposed numbering scheme. (See course numbering system on page 25).

4. Substitution of Courses

4.1 From:
Eng 26- ARGUMENTATION AND DEBATE-

To:
Eng 23- WRITING THE ESSAY-

Prerequisite: Eng 15 (Advanced Grammar & Composition)
3 hrs a week (1ec)

Credit: 3 units

Rationale:

The substitution is to improve the ability of the student in writing English essays and in making critical analyses of what is written which many of the our students lack. Most subjects in the degree program are dealing with solving numbers and equations but less in discussion type unlike in other degree programs. Writing the essay is more appropriate than argumentation and debate for engineering students.

Other Courses to be Added

- 1 Ecol 21- FUNDAMENTALS OF ECOLOGY- Basic principles and concept of ecology.

Prerequisite: Biology 11

3 hrs a week (1ec)

Credit: 3 units

Rationale:

The relevance of ecology as industrialization and population increase becomes necessary to any individual in order that nature can be protected and preserved. Thus, inclusion of this course into the curriculum.

Courses for Deletion

- 1 CS 131- INTRODUCTION TO COMPUTER PROGRAMMING- Algorithms, programs and computers, basic programming, program structure and data presentation.

Prerequisite: Math 11 (College Algebra)

5 hrs a week (2 lec, 3 lab)

Credit: 3 units

Rationale:

This course has compressed the topics on data processing and computer programming into only one 3-unit course. Hence, this course has become a difficult one to handle. With the advancement in information technology, too many new topics need to be introduced and these can no longer be accommodated by just one course. The topics on computer and other necessary information about data processing were incorporated in CS 21, while the concept of programming were given emphasis in CS 134.

The course will continue to be offered by other degree programs until a revision of their curricular offering will take effect.

- 2 MATH 23- ANALYTIC GEOMETRY- Straight lines; functions and graphs locus of equations; parametric and empirical equation; second degree curves and polar coordinates; introduction to solid analytic geometry.

Prerequisite: Math 22 (Plane Trigonometry)

3 hrs a week (1ec)

Credit: 3 units

6.3 MATH 122- DIFFERENTIAL CALCULUS - Limits and continuity differentiation and derivatives; minima, maxima and time rate; parametric and indeterminate curves; curve tracing.

Prerequisite: Math 23 Analytic Geometry

4 hrs a week (lec)

Credit: 4 units

6.4 MATH 123 - INTEGRAL CALCULUS - Principles and methods of integration; definite improper and multiple integrals and their application.

Prerequisite: Math 122 (Diff. Calculus)

4 hrs a week (lec)

Credit: 4 units

6.5 MATH 141 - DIFFERENTIAL EQUATIONS - Equation orders; applications of differential equations; systems of operations differential operators and transforms and fourier series; partial differential equations.

Prerequisite: Math 123 (Integral Calculus)

3 hrs a week (lec)

Credit: 3 units

Rationale:

These math courses are now being replaced with the institution of Math 112 (Analytic Geometry and Calculus I), Math 113 (Analytic Geometry & Calculus II), and Math 114 (Calculus III & Differential Equations).

These courses, however, will still continue to be offered by other degree programs until such time the curricular offerings are revised.

6.6 AE 195.1 - PRACTICUM IN RURAL ELECTRIFICATION

Prerequisite: AE 135 (Rural Electrification)

6 hrs a week (lab)

Credit: 2 units

6.7 AE 195.2 - PRACTICUM IN SOIL AND WATER MANAGEMENT

Prerequisite: AE 146 (Water Management Engineering)

6 hrs a week (lab)

Credit: 2 units

6.8 AE 195.3 - PRACTICUM IN FARM MACHINERY AND CROP PROCESSING

Prerequisite: AE 148 (Ag. Machinery and Equipment)

6 hrs a week (lab)

Credit: 2 units

Rationale:

In-campus practicum subjects will be deleted because most practicum activities are already taken-up in the laboratory of the respective major courses. Practicum in rural electrification is similar to the laboratory work/exercises in AE 171 (Rural Electrification), practicum in soil and

water management is taken up in AE 157 (Water Management Eng'g) and in AE 158 (Soil & Water Conservation Eng'g.), while the practicum in farm machinery and crop processing is included in AE 162 (Ag. Machinery & Equipment) and in AE 161 (Crop Processing).

Removal of practicum subjects allows us to reduce the total units required for the degree program and institute important subjects in computer programming and ecology.

BACHELOR OF SCIENCE IN AGRICULTURAL ENGINEERING

PRESENT

Course No.	Descriptive Title	Lec	Lab	Unit
<u>FIRST YEAR</u>				
<u>First Semester</u>				
Eng	11 Communication Skills I	3	0	3
Psycho	11 General Psychology	3	0	3
PI	11 Phil History, Constitution & Rizal	3	0	3
Soc Sci	12 Socio Economic Systems	3	0	3
Math	11 College Algebra	3	0	3
Chem	11 General Chemistry	3	3	4
PE	11 Physical Fitness & Gymnastics			(2)
CMT 11/EUTH	11			(1.5/1)
				19
<u>Second Semester</u>				
Eng	12 Communication Skills II	3	0	3
Socio	11 General Sociology	3	0	3
Philo	12 Contemporary Philosophical Thoughts	3	0	3
Math	22 Plane Trigonometry	3	0	3
Chem 21	11 General Chemistry II	2	3	3
Bio	11 General Biology	3	3	4
PE	12 Rec'l Games, Rhythmic Activities			(2)
CMT 12/EUTH	12			(1.5/1)
				19
<u>SECOND YEAR</u>				
<u>First Semester</u>				
Eng	15 Advance Grammar & Composition	3	0	3
Human	11 Introduction to Humanities	3	0	3
Math	23 Analytic Geometry	3	0	3
Stat	21 Elementary Statistics	2	3	3
Phys	11 General Physics	3	3	4
Agro	21 Fundamentals of Crop Production	2	3	3
Phy.Ed	13 Team Sports			(2)
CMT 21/Euth.	13			(1.5/1)
				19
<u>Second Semester</u>				
Speech	11 Speech Communication	3	0	3
AS	22 Principles of Animal Production	2	3	3
Math	122 Differential Calculus	4	0	4
Phys	21 College Physics	2	3	3
AE	121 Engineering Graphics	1	6	3
AE	123 Statics	3	0	3
Phy. Ed.	14 Individual-Dual Sports			(2)
CMT 22/Euth	14			(1.5/1)
				19

PROPOSED

Course No.	Descriptive Title	Lec	Lab
<u>FIRST YEAR</u>			
<u>First Semester</u>			
Eng	11 Communication Skills I		3
Psycho	11 General Psychology		3
Socio	11 General Sociology		3
PI	11 Phil History, Constitution & Rizal		3
Math	11 College Algebra		3
Chem	11 General Chemistry I		3
PE	11 Physical Fitness & Gymnastics		
CMT 11/EUTH	11		
<u>Second Semester</u>			
Eng	12 Communication Skills II		3
Human	11 Introduction to Humanities		3
Philo	12 Contemporary Philosophical Thoughts		3
Bio	11 General Biology		3
Chem	21 General Chemistry II		2
Math	22 Plane Trigonometry		3
PE	12 Rec'l. Games, Rhythmic Activities		
CMT 12/EUTH	12		
<u>SECOND YEAR</u>			
<u>First Semester</u>			
Speech	11 Speech Communication		
Eng	15 Advance Grammar & Composition		
Agro	21 Fundamentals of Crop Production		
An Sci	22 Principles of Animal Production		
Phys	11 General Physics		
Math	112 Analytic Geometry & Calculus I		
PE	13 Team Sports		
CMT 21/EUTH	13		
<u>Second Semester</u>			
Eng	23 Writing the Essay		
SS	22 Fundamentals of Soil Science		
Phys	21 College Physics		
Math	113 Analytic Geometry & Calculus II		
CS	21 Fundamentals of Data Processing & Microcomputer Operations		
AE	122 Engineering Graphics I		
PE	14 Individual Sports		
CMT 22/EUTH	14		

YEAR	First Semester			
	26 Argumentation & Debate	3	0	3
	21 Farm Management	2	3	3
	123 Integral Calculus	4	0	4
	131 Intro to Computer Programming	2	3	3
	123 Fundamentals of Surveying	1	6	3
	131 Dynamics	3	0	3
	137 Strength of Materials	3	0	3
				22

	Second Semester			
	22 Fundamentals of Soil Science	2	3	3
	141 Differential Equations	3	0	3
	122 Farm Shop Practices I	1	6	3
	132 Kinematics	2	3	3
	134 Fluid Mechanics	3	0	3
	136 Thermodynamics	3	0	3
	138 Engineering Materials	2	3	3
				21

YEAR	First Semester			
	133 Farm Shop Practice II	1	6	3
	126 Electronic & Electrical Engineering	2	3	3
	141 Theory of Structures	3	0	3
	143 Heat Transfer	3	0	3
	145 Hydrometeorology	2	3	3
	147 Machine Design	2	3	3
	Elective* Research Planning & Manuscript Preparation*/Elective**	3	0	3
				21

	Second Semester			
	14 Phil. Social Problems, Land Reform and Taxation (For Model A only)	3	0	3
	135 Rural Electrification	2	3	3
	142 Agricultural Structures	2	3	3
	144 Farm Power	3	0	3
	146 Water Management Engineering	2	3	3
	148 Agricultural Machinery & Equipment Management	2	3	3
	200 Undergraduate Thesis*			1
				19/18

	Summer			
	200a Field Practice**			4

THIRD YEAR	First Semester			
	Math 114 Calculus III & Differential Eqs.	5	0	5
	CS 132 Computer Programming	2	3	3
	AE 131 Eng'g Graphics II	1	3	2
	AE 133 Fundamentals of Surveying	1	6	3
	AE 135 Engineering Mechanics	5	0	5
	AE 137 Engineering Materials	2	3	3
				21

	Second Semester			
	Stat 21 Elementary Statistics	2	3	3
	AE 132 Shop Practices	1	6	3
	AE 134 Fluid Mechanics	3	3	4
	AE 136 Thermodynamics & Heat Transfer	5	0	5
	AE 138 Dynamics of Machinery	2	3	3
	AE 142 Strength of Materials	3	0	3
				21

FOURTH YEAR	First Semester			
	AE 151 Structural Design	2	3	3
	AE 153 Machinery Design	2	3	3
	AE 157 Agricultural Power	3	0	3
	AE 155 Hydrometeorology	2	3	3
	AE 157 Water Management Engineering	2	3	3
	AE 159 Crop Processing	2	3	3
	AE 195/Elective Res. Planning and Manuscript Prep.*/Elective**	3	0	3
				21

	Second Semester			
	Soc Sci 14 Phil Social Problems, Agrarian Reform & Taxation	3	0	3
	AE 152 Agricultural Structures	2	3	3
	AE 154 Electronics & Instrumentation	2	3	3
	AE 156 Environmental Control Engineering	2	3	3
	AE 158 Soil & Water Conservation Eng'g.	2	3	3
	AE 162 Agricultural Machinery & Equipment	2	3	3
	AE 200 Undergraduate Thesis			1
				19

	Summer			
	AE 200/200a Undergraduate Thesis*/Field Practice**			2/4

FIFTH YEAR	First Semester			
Plt Prot	21 Principles of Plant Protection	2	3	3
AE	129 Engineering Economy	3	0	3
AE	151 Refrigeration Engineering	3	0	3
AE	153 Environmental Control Engineering	2	3	3
AE	155 Soil & Water Conservation Eng'g.	2	3	3
AE	159 Crop Processing	2	3	3
AE	195.1 Practicum in Rural Electrification	0	6	2
AE	200/200a Undergraduate Thesis*/Field Practice**			<u>2/1</u>
				21/20

	Second Semester			
FS	121 Fundamentals of Farming System	2	3	3
AE	152 Eng'g. Specification & Contract	3	0	3
AE	195.2 Practicum in Soil & Water Mgmt.	0	6	2
AE	195.3 Practicum in Farm Machinery & Crop Processing	6	0	2
AE	199 Undergraduate Seminar			1
AE 200/AE	200a Undergraduate Thesis*/Field Practice**			<u>3/1</u>
				14/12

TOTAL UNITS ----- 195

- *- For Thesis Option
 **- For Field Practice Option
 ***- Elective: English 24 (Scientific Writing) or
 AE 198 (Res. Planning & Manuscript Preparation)

FIFTH YEAR	First Semester
Soc Sci	13 Socio-Economic Systems
Ecol	21 Fundamentals of Ecology
PP	21 Principles of Plant Protection
Econ	21 Farm Management
AE	171 Rural Electrification
AE	173 Refrigeration & Air Conditioning
AE	200/200a Undergraduate Thesis*/Field Practice

	Second Semester
AE	182 Engineering Economy
AE	184 Eng'g Specifications, Contracts & Ethics
AE	199 Undergraduate Seminar
AE	200/200a Undergraduate Thesis*/Field Practice

TOTAL -----

- *- For Thesis Option
 **- For Field Practice Option
 ***- Elective: English 24 (Scientific Writing) or
 AE 198 (Res. Planning & Manuscript Preparation)

ANALYSIS OF COURSES

ExistingProposedGeneral Education Courses

	11	Communication Skills I	3
	12	Communication Skills II	3
	15	Advance Grammar & Composition	3
Speech	11	Speech Communication	3
Socio	11	General Sociology	3
Psych	11	General Psychology	3
Human	11	Introduction to Humanities	3
Philo	12	Contemporary Philosophical Thoughts	3
Phil	11	Phil History, Const. & Rizal	3
Soc Sci	13	Socio-Economic Systems	3
Soc Sci	14	Phil Soc Problems, Ag Reform & Tax	3
Chem	11	General Chemistry I	4
Bio	11	General Biology	4
Math	11	College Algebra	3
Math	22	Plane Trigonometry	3
Physics	11	General Physics	4

TOTAL UNITS ----- 51

Eng	11	Communication Skills I	3
Eng	12	Communication Skills II	3
Eng	15	Advance Grammar & Composition	3
Speech	11	Speech Communication	3
Socio	11	General Sociology	3
Psych	11	General Psychology	3
Human	11	Introduction to Humanities	3
Philo	12	Contemporary Philosophical Thoughts	3
Phil	11	Phil. History, Const. & Rizal	3
Soc Sci	13	Socio-Economic Systems	3
Soc Sci	14	Phil Soc Problems, Ag Reform & Tax	3
Chem	11	General Chemistry I	4
Bio	11	General Biology	4
Math	11	College Algebra	3
Math	22	Plane Trigonometry	3
Physics	11	General Physics	4

51 units

2. Fundamental Courses

Eng	26	Argumentation & Debate	3
Plt Prot	21	Principles of Plant Protection	3
Econ	21	Farm Management	3
Chem	21	General Chemistry II	3
Agro	21	Fundamentals of Crop Production	3
An Sci	22	Principles of Animal Production	3
SS	22	Fundamentals of Soil Science	3
Stat	21	Elementary Statistics	3
Math	23	Analytic Geometry	3
Physics	21	College Physics	3
FS	121	Fundamentals of Farming System	3

TOTAL UNITS ----- 33

Eng	23	Writing the Essay	3
Eco	21	Fundamentals of Ecology	3
Plt Prot	21	Principles of Plant Protection	3
Econ	21	Farm Management	3
Chem	22	General Chemistry II	3
Agro	22	Fundamentals of Crop Production	3
An Sci	22	Principles of Animal Production	3
SS	22	Fundamental of Soil Science	3
Stat	21	Elementary Statistics	3
Physics	21	College Physics	3
CS	21	Prin. of Data Processing & Microc.	3

33 units

3. Major Courses

Math	122	Differential Calculus	4	Math	112	Analytic Geometry & Calculus I	5
Math	123	Integral Calculus	4	Math	113	Analytic Geometry & Calculus II	5
Math	141	Differential Equations	3	Math	114	Calculus III & Differential Eqs.	5
CS	131	Introduction to Programming	3	CS	132	Computer Programming	3
AE	121	Engineering Graphics	3	AE	122	Engineering Graphics I	3
AE	128	Statics	3	AE	131	Engineering Graphics II	2
AE	131	Dynamics	3	AE	135	Engineering Mechanics	5
AE	122	Farm Shop Practices I	3				
AE	133	Farm Shop Practice II	3	AE	132	Shop Practices	3
AE	123	Fundamentals of Surveying	3	AE	133	Fundamentals of Surveying	3
AE	137	Strength of Materials	3	AE	142	Strength of Materials	3
AE	132	Kinematics	3	AE	138	Dynamics of Machinery	3
AE	134	Fluid Mechanics	3	AE	134	Fluid Mechanics	4
AE	136	Thermodynamics	3				
AE	143	Heat Transfer	3	AE	136	Thermodynamics & Heat Transfer	5
AE	138	Engineering Materials	3	AE	137	Engineering Materials	3
AE	126	Electronic & Electrical Engineering	3	AE	154	Electronic & Instrumentation	3
AE	141	Theory of Structures	3	AE	151	Structural Design	3
AE	145	Hydrometeorology	3	AE	155	Hydrometeorology	3
AE	147	Machine Design	3	AE	153	Machinery Design	3
AE	135	Rural Electrification	3	AE	171	Rural Electrification	3
AE	142	Agricultural Structures	3	AE	152	Agricultural Structures	3
AE	144	Farm Power	3	AE	159	Agricultural Power	3
AE	146	Water Management Engineering	3	AE	157	Water Management Engineering	3
AE	148	Agricultural Machinery & Equipment Management	3	AE	162	Ag. Machinery & Equipment	3
AE	139	Engineering Economy	3	AE	182	Engineering Economy	3
AE	151	Refrigeration Engineering	3	AE	173	Refrigeration & Air Conditioning	3
AE	152	Eng'g. Specification & Contract	3	AE	184	Eng'g Specs, Contract & Ethics	3
AE	153	Environmental Control Engineering	3	AE	156	Environmental Control Engineering	3
AE	155	Soil & Water Conservation Eng'g.	3	AE	158	Soil & Water Conservation Eng'g.	3
AE	159	Crop Processing	3	AE	161	Crop Processing	3
AE	195.1	Practicum in Rural Electrification	2				
AE	195.2	Practicum in Soil & Water Mgmt.	2				
AE	195.3	Practicum in Farm Machinery & Equipment	2				
AE	198	Res Planning & Manuscript Prep	3	AE	198	Res Planning & Manuscript Prep	3
AE	199	Undergraduate Seminar	1	AE	199	Undergraduate Seminar	1
AE	200/200a	Undergrad Thesis/Field Practice	6	AE	200/200a	Undergrad. Thesis/Field Practice	6
TOTAL UNITS -----			111				107
GRAND TOTAL UNITS -----			195				191

SUMMARY

	Present	Proposed
General Education	51	51
Fundamental Courses	33	33
Major Courses	111	107
	<hr/>	<hr/>
TOTAL ---	195	191

COURSE NUMBERING SYSTEM FOR AG ENGINEERING SUBJECTS (AE):

- 111 - 129 ----- 2nd year offerings
- 131 - 149 ----- 3rd year offerings
- 151 - 169 ----- 4th year offerings
- 171 - 189 ----- 5th year offerings
- 191 - 199 ----- Special topics, special problem, and seminar
- 200 & 220a ----- Undergraduate Thesis and Field Practice
- Odd numbers ----- First semester offerings
- Even numbers ----- Second semester offerings

PROPOSAL TO OFFER

BACHELOR OF SCIENCE IN BIOLOGY WITH MAJORS IN ECOLOGY AND MARINE BIOLOGY

RATIONALE

The terrestrial and aquatic ecosystems throughout the world have deteriorated due to lack of proper environmental safeguards to accompany the rapid industrial and agricultural development. Sustainability of renewable resources in these ecosystems can only be ensured if they are properly conserved and managed. The marine environment is of special concern because it is probably man's last economic frontier.

Well-qualified manpower, on the other hand, must be available to properly address various issues about resource conservation and management. The critical need for manpower in the fields of ecology and marine biology was underscored during the First National Symposium in Marine Science and the Environmental Protection and Management Workshop in 1990 held at the U.P. Marine Science Institute, Bolinao Marine Laboratory in Pangasinan. Such need has been also noted in the growing international and local efforts at increasing environmental awareness and conservation through high quality instruction, research and extension activities.

In response to these urgent needs, the future challenges in the development thrusts of the Philippines and the global community, and in line with ViSCA's mandate, the Biology Section of the Department of Plant Protection proposes the offering of Bachelor of Science in Biology. The offering of B.S. Biology with two majors is envisioned to give future graduates of the course a broad biological perspective by exposing them to fundamental and applied aspects of ecology and marine biology. It is also intended to augment the presently limited pool of instructors, researchers and extensionists in both fields of specialization.

Currently, no tertiary institution in Region VIII is offering a degree program in Biology with specialization in Ecology and Marine Biology. Based on the survey and interview conducted by the Biology faculty of the Department of Plant Protection in seven institutions of higher learning in the region, there is a need for the offering of this tertiary program in biology. Such degree program will cater to the needs of other educational institutions in the region such as Albuera National School of Fisheries, Bato School of Fisheries, Carigara School of Fisheries, Hilongos National Vocational School, Naval School of Fisheries and Samar Regional Institute of Fisheries. Moreover, institutions

1 like Leyte Normal University, Palompon Institute
2 Technology, Ruperto K. Kangleon Memorial Agro-Fisheries
3 Technical Institute, Eastern Samar State College and
4 University of Eastern Philippines, which are integrated
5 ecology in their curricular program, have strong need
6 the services and expertise of graduates in Ecology
7 Marine Biology. Hence, the offering of Bachelor of Science
8 in Biology is felt relevant and timely.

9
10 In addition, ViSCA is in the best position to offer
11 degree program in Ecology and Marine Biology for
12 following reasons: (1) the college has capability in
13 disciplines in environmental science particularly ecology
14 and marine biology, (2) the equipment, vehicles and
15 facilities provided by the ViSCA-gtz complement the trained
16 manpower and (3) this offering would enhance ViSCA's position
17 as a center of excellence in agriculture and fisheries in
18 the Visayas.

19
20 The proposed degree program follows the minimum general
21 education requirements set by DECS Order No. 3593 issued
22 6 January 1973.

23 24 II. OBJECTIVE:

25
26 This program aims to provide the trained manpower
27 who can do effective teaching, research and extension service
28 in the fields of marine biology and ecology. Likewise
29 the increasing bias towards development through
30 environmental protection and restoration, this offering
31 would answer this need.

32 33 III. TARGET CLIENTELE

- 34
35 1. High school graduates
36
37 2. Development workers and change agents who
38 enrichment/knowledge about various ecosystems
39
40 3. Environmental workers, NGOs and LGUs whose work
41 an academic background in ecology and marine biology
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IV. EMPLOYMENT OPPORTUNITIES

As teachers, researchers and extension workers in:

1. Educational and research institutions and other government agencies (SCU's, DA, DENR, DOST, etc.)
2. NGOs, aquaculture enterprises and private agencies (e.g. Haribon Foundation, Process Foundation, San Miguel Corporation, PICOP, seaweed companies, etc.)
3. International organizations (ADB, ICLARM, IIRR, IMA etc.)

V. GRADUATE PROFILE

With the curricular offering of B.S. Biology with majors in Ecology and Marine Biology, it is expected that the graduates of the program will have acquired the three expected learning outcomes as follows:

A. Cognitive

1. Equip themselves with the necessary factual information, concepts and principles of biology in general and ecology and marine science in particular.
2. Develop the creativity in sustainably utilizing our vast natural resources and thus help our country towards economic recovery and development.
3. Strengthen further the skill of graduates on problem-solving and conducting researches in Ecology and Marine Science.
4. Enhance the ability to recognize and reject ideas or actions that are detrimental to our flora and fauna.

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B. Affective

1. Develop an appreciation of living organisms help sustain ecological balance.
2. Acquire positive attitudes to problem-solving any analytical process.
3. Be imbued with the values of integrity persistence necessary in the conduct of scientific undertaking.
4. Utilize wisely and sustainably our environment natural resources.
5. Have the proper motivation and encouragement work for the improvement of existing methodology and technologies that promote environmental consciousness and conservation.
6. Consider all human beings as stewards caretakers who must conserve and protect remaining natural resources.

C. Psychomotor

1. Provide graduates with the necessary manipulative skills in the proper care and use of different instruments associated with ecological and marine science research.
2. Broaden one's insight in dealing with people interacting with them on matters related to ecology and marine science conservation.
3. Provide program participants with the necessary training on the proper utilization or application of existing methodologies and techniques that are useful to their instruction, research and extension activities.
4. Perform community outreach activities necessary for the proper utilization, conservation and rehabilitation of our existing natural resources.

VI. CURRICULAR OFFERINGS

A. COURSE SCHEDULE

FIRST YEAR

First Semester

		Lec	Lab	Units
Engl	11 Comm. Skills I	3	0	3
Psyc	11 Gen. Psychology	3	0	3
SoSc	13 Socio-Econ Systems	3	0	3
Math	11 College Algebra	3	0	3
Chem	11 Gen. Chemistry I	3	3	4
Bio	11 Gen. Biology	3	3	4
PhyEd	11 Phys. Fit & Gymn			(2)
CMT	11 Euth. 11		(1.5/1)	
				<hr/>
				20

Second Semester

		Lec	Lab	Units
Engl	12 Comm. Skills II	3	0	3
Bot	21 Gen. Botany	2	3	3
Math	12 Plane Trigo.	3	0	3
Soci	11 Gen. Sociology	3	0	3
ScSc	14 Phil.Soc.Prob.Land			
	Ref. & Tax'n	3	0	3
Philo	12 Contemp. Philo	2	3	3
	Thoughts			
Zoo	21 Gen. Zoology	2	3	3
PhyEd	12 Rec'l. Games &			
	Rhyth Act.			(2)
CMT	12/Euth. 12			(1.5/1)
				<hr/>
				21

SECOND YEAR

First Semester

		Lec	Lab	Units
Bio	22 Prin. of Genetics	2	3	3
Hum	11 Intro.to Humanities	3	0	3
Phys	11 Gen. Physics	3	3	4
Spch	11 Speech Comm.	3	0	3
Math	101 Elem Calculus	3	0	3
PI	11 Phil.Hist. Const.	3	0	3
	& Rizal			
Fil	25 Sining ng Pakikipag-			
	talastasan	3	0	3
PhyEd	13 Team Sports			(2)
CMT	21/Euth 13			(1.5/1)
				<hr/>
				22

Second Semester

		Lec	Lab	Units
Eco	21 Fundamentals of Eco 2		3	3
Phys	21 College Physics	2	3	3
Stat	21 Elem. Statistics	2	3	3
Chem	21 Gen. Chemistry II	2	3	3
Micr	22 Gen. Microbiology	2	3	3
Engl	15 Advanced Grammar	3	0	3
(PHIN	12 Life, Works &			
	Writings of Dr. Jose Rizal)	3	0	(3)
PhyEd	14 Indiv-Dual Sports			(2)
CMT	22 Euth 14			(1.5/1)
				<hr/>
				18 (21)

MAJOR IN MARINE BIOLOGY

THIRD YEAR

First Semester

Lec Lab Units

CoSc 21 Intro to Computer Science	2	3	3
Biol 111 Fund. of Marine Biol	2	6	4
Chem 31 Gen. Biochemistry	2	3	3
Stat 130 Statistical Methods	2	3	3
Engl 26 Argumentation & Debate	3	0	3
Biol 139 Intro. to Mol./Cell	3	0	3
RS 137 Community Action	3	0	3

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Second Semester

Lec Lab Units

Biol 112 Marine Plankton	3	3	4
Biol 128 Elem. Physiology	3	3	4
Biol 152 Marine Ecosystems	2	6	4
Biol 158 Phys. & Chem. Ocea.	3	3	4
Biol 192 Biol. Techniques	2	6	4
Biol 198 Res. Planning & Manuscript Preparation	3	0	3

23

FOURTH YEAR

First Semester

Lec Lab Units

Biol 161 Marine Ecology	3	3	4
Zool 141 Marine Invertebrates	2	6	4
Biol 113 Marine Botany	3	3	4
Zool 143 Ichthyology	2	6	4
Biol 200 Undergraduate Thesis	0	0	2

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Second Semester

Lec Lab Uni

Ecol 182 Resource Conservation & Mgmt.	3	0	3
Biol 172 Intro. to Aquaculture	2	3	3
Biol 179 Undergraduate Seminar	1	0	1
Biol 200 Undergraduate Thesis	0	0	4
ELECTIVE	2	3	3

14

ELECTIVES

Lec Lab Units

Biol 154 Evolution	3	0	3
Zool 125 Comp. Vertebrate & Inver. Anatomy	2	3	3
Zool 127 Embryology	3	3	4
Ecol 187 Bioindicators	2	3	3
Zool 112 Parasitology	2	3	3
AgBo 141 Plt. Systematics	1	6	3

MAJOR IN ECOLOGY

THIRD YEAR

First Semester

	Lec	Lab	Units
CoSc 21 Intro to Computer Science	3	0	3
Chem 31 Gen Biochemistry	2	3	3
Biol 139 Intro.to Mol/Cell Bio	3	0	3
Stat 130 Statistical Methods	2	3	3
FOR 122 Forest & Grassland Eco.	2	2	4
Engl 26 Argumentation & Debate	3	0	3
PS 137 Community Action	3	0	3
			22

Second Semester

	Lec	Lab	Units
Biol 128 Elem. Physiology	3	3	4
Biol 152 Marine Ecosystems	2	6	4
Ecol 152 Limnology	2	6	4
Ecol 156 Agroecosystems	2	3	3
Ecol 172 Socio-Ecology	3	0	3
Biol 198 Research Planning & Manuscript Prep.	3	0	3
			21

FOURTH YEAR

First Semester

	Lec	Lab	Units
Biol 141 Intro.to Bio-Systematics	2	3	3
Biol 127 Embryology	3	3	4
Ecol 181 Biogeography	3	0	3
Ecol 187 Bioindicators	2	3	3
Ecol 189 Env't'l Impact Asstmt.	3	3	4
Biol 200 Undergraduate Thesis	0	0	2
			19

Second Semester

	Lec	Lab	Units
Ecol 182 Resource Conservation & Mgmt.	3	0	3
Ecol 184 Geomorphology	3	0	3
Biol 199 Undergraduate Seminar	1	0	1
Biol 200 Thesis	0	0	4
Elective	2	3	3
			14

ELECTIVES FOR ECOLOGY

Bio 121 Functional Morphology	2	3	3
Biol 154 Evolution	3	0	3
Aplo 141 Plant Systematics	1	6	3
Ento 112 Gen. Entomology	2	3	3
Ecol 157 Biocybernetics	3	0	3
Zool 112 Parasitology	2	3	3

B. COURSE ANALYSIS

1. General Education

Language

Course	Description	Units
Engl 11	Communication Skills I	3
Engl 12	Communication Skills II	3
Engl 15	Advanced Grammar	3
Spch 11	Speech Communication	3
Sub-Total		12

Social Sciences

Hum 11	Introduction to Humanities	3
Philo 12	Contemporary Philosophical Thoughts	3
Soci 11	General Sociology	3
Psyc 11	General Psychology	3
SoSc 13	Socio-Economic System	3
SoSc 14	Phil. Soc. Prob. Land Reform & Taxation	3
(PHIN 12	Life, Works & Writings of Dr. Jose Rizal)	3
PI 11	Phil. Hist. Const. & Rizal	3
Sub-Total		21 (24

Natural Sciences and Mathematics

Math 11	College Algebra	3
Math 12	Plane Trigonometry	3
Phys 11	General Physics	4
Bio 11	General Biology	4
Chem 11	General Chemistry	4
Sub-Total		18

General Education

PhyEd	11, 12, 13, 14	(8)
CMT	11, 12, 21, 22	(6)
Euth	11, 12, 13, 14	(4)

 Sub-Total (15)
Fundamental Courses

Course	Description	Units
--------	-------------	-------

Language

Engl 26	Argumentation & Debate	3
Fil 25	Sining ng Pakikipagtalastasan	3
		<hr/>
		6

Social Sciences

RS 137	Community Action	3
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Physical Sciences/Mathematics

CoSc 21	Intro to Computer Science	3
Stat 21	Elem. Statistics	3
Phys 21	College Physics	3
Chem 21	General Chemistry II	3
Math 101	Elem Calculus	3
Chem 31	General Biochemistry	3
		<hr/>
Sub-total		18

Biological Sciences

Bot 21	General Botany	3
Zoo 21	General Zoology	3
Bio 22	Genetics	3
Eco 21	Fundamental of Ecology	3
Micr 22	General Microbiology	3
		<hr/>
Sub-total		15

Major CoursesCore Courses

Biol 128	Elementary Physiology	4
Biol 139	Intro. to Mol./ Cell Biol	3
Stat 130	Statistical Methods	3
Ecol 182	Resource Conservation & Mgnt.	3
		<hr/>
Sub-total		13

Marine Biology Major Courses

Biol	111	Fundamentals of Marine Biology	4
Biol	113	Marine Botany	4
Biol	112	Marine Plankton	4
Biol	152	Marine Ecosystems	4
Biol	158	Physical and Chemical Oceanography	4
Biol	161	Marine Ecology	4
Biol	172	Intro. to Aquaculture	3
Biol	192	Biological Techniques	4
Biol	198	Research Planning & Manuscript Preparation	3
Biol	199	Undergraduate Seminar	1
Biol	200	Undergraduate Thesis	6
Zool	141	Marine Invertebrates	4
Zool	143	Ichthyology	4
E l e c t i v e			3
Sub-total			52

Ecology Major Courses

FOR	122	Forest & Grassland Ecology	4
Ecol	152	Limnology	4
Ecol	156	Agroecosystems	3
Ecol	172	Socio-ecology	3
Ecol	181	Biogeography	3
Ecol	184	Geomorphology	3
Ecol	187	Bioindicators	3
Ecol	189	Env't'l Impact Assessment	4
Biol	141	Intro to Biosystematics	3
Biol	152	Marine Ecosystems	4
Biol	198	Research Planning & Manuscript Preparation	3
Biol	199	Undergraduate Seminar	1
Biol	200	Undergraduate Thesis	6
Zool	127	Embryology	4
E l e c t i v e			3
			51

1	<u>Marine Biology Major Electives</u>			
2				
3	AgBo	141	Plant Systematics	3
4	Biol	154	Evolution	3
5	Ecol	187	Bioindicators	3
6	Zool	112	Parasitology	3
7	Zool	125	Comp. Vert. & Invert. Anatomy	3
8	Zool	127	Embryology	4
9				
10			Sub-total	19
11				
12	<u>Ecology Major Electives</u>			
13				
14				
15	AgBo	141	Plant Systematics	3
16	Biol	121	Functional Morphology	3
17	Biol	154	Evolution	3
18	Ecol	157	Biocybernetics	3
19	Ento	112	General Entomology	3
20	Zool	112	Parasitology	3
21				
22			Sub-total	18
23				
24			Grand Total:	
25				
26				
27			Marine Biology Majors	158 (161)
28			Ecology Majors	157 (160)
29				

1 VI. COURSE DESCRIPTIONS

2
3 A. Core Courses to be Instituted

4
5 1. Biol 128 - Elementary Physiology

6 Basic physiological processes of
7 plants and animals.

8 Prerequisite: Chem 31 & Bio 11

9 3 hrs. lec., 3 hrs. lab

10 Credit : 4 units

11 Rationale : A thorough knowledge of the normal
12 functioning of organisms will
13 provide the necessary background
14 for understanding biological
15 processes.

16
17 2. Biol 139 - Introduction to Molecular & Cell Bio.

18 Molecular basis of cell structure,
19 function and evolution; gene express:
20 and regulation; cell cycle, cellular
21 metabolism and bioenergetics.

22 Prerequisite : Chem 21 & Bio 11

23 3 hrs. lec.

24 Credit : 3 units

25 Rationale : This will give students a better
26 understanding of the molecular
27 structure and functions of the c

28
29 3. Ecol 182 - Resource Conservation and Management

30 Principles, methods and strategies o
31 water and terrestrial resources
32 conservation and management includin
33 national, international and local
34 policies.

35 Prerequisite: Eco 21

36 3 hrs. lec.

37 Credit : 3 units

38 Rationale : This course will orient major stu
39 on how to conserve and manage our
40 natural resources (especially tho
41 that are dwindling) and also how
42 deal with or even preclude manmad
43 and natural perturbation.
44
45
46
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52

B. Marine Biology Major Courses to be Instituted

1. Biol 111 - Fundamentals of Marine Biology

Prerequisite : Zoo 21 & Bot 21

2 hrs. lec., 6 hrs. lab.

Credit : 4 units

Rationale : This course will acquaint students with the history and major subdivisions of the marine environment, their floral and faunal composition, and the various geophysico-chemical factors affecting marine life. The lab and lecture are given equal weight since field exposure is very important in marine biological education.

2. Biol 112 - Marine Plankton

Taxo-morphology and general biology of marine phyto and zooplankton including distribution, migration and natural production aspects; methods of collection and preservation.

Prerequisite : Biol 111

3 hrs. lec., 3 hrs. lab.

Credit : 4 units

Rationale : Background on the plankton component of the marine community is indispensable considering their numbers despite their small size, their significant contribution to the marine food chain, and the role they play in shellfish poisoning which is of economic and human health concern.

3. Biol 113 - Marine Botany

General morphology, physiology, taxonomy and evolutionary relationships of marine plants (marine algae and vascular plants); methods of collection and preservation.

Prerequisite : Bot 21

2 hrs. lec., 6 hrs. lab.

Credit : 4 units

Rationale : This course will provide students with a general background on the morphology, physiology, taxonomy and evolutionary relationships of different groups of marine algae and marine vascular plants for a deeper understanding of their ecological and economic roles.

1 4. Biol 152 - Marine Ecosystems

2 Concepts and principles of ecology dealing
3 with marine populations, communities and
4 ecosystems

5 Prerequisite : Eco 21 & Biol 111

6 3 hrs. lec., 3 hrs. lab

7 Credit : 4 units

8 Rationale : This will give students a better
9 understanding of the relationships and
10 interactions between marine organisms
11 and their environment and with each
12 other.

13 5. Biol 158 - Physical and Chemical Oceanography

14 Introduction to the physical and chemical
15 properties and processes of the world's
16 oceans; principles, instruments and
17 methods of oceanographic investigation.

18 Prerequisite : Chem 31, Math 101 & Phys 21

19 2 hrs. lec., 6 hrs. lab.

20 Credit : 4 units

21 Rationale : The ocean is a source not only of
22 biological but also of mineral raw
23 materials. Knowledge of the physical
24 and chemical properties and processes
25 occurring in the world's oceans will
26 provide major students with a better
27 understanding of how oceanographic
28 processes are interrelated and how
29 they affect marine life.
30

31 6. Biol 161 - Marine Ecology

32 Concepts and principles of ecology as a
33 applied to the marine environment, abiotic
34 and biotic system interaction, relationships
35 and interactions between organisms and the
36 various factors that affect their adaptation
37 and distribution.

38 Prerequisite: Eco 21 & Biol 111

39 3 hrs lec, 3 hrs lab

40 Credit : 4 units

41 Rationale : This will provide the students with
42 basic knowledge in marine ecology
43 particularly in tropical environments.
44 They will learn how abiotic and biotic
45 systems are interwoven and how the various
46 factors affect the interaction, adaptation
47 and distribution of marine organisms.
48
49
50
51
52

7. Biol 172 - Introduction to Aquaculture

Principles and methods of the husbandry of marine plants and animals.

Prerequisite : Zoo 21

2 hrs. lec., 3 hrs. lab.

Credit : 3 units

Rationale : Students will be acquainted with the principles and current methods of culturing marine plants and animals. This information would be useful in development work.

8. Biol 192 - Biological Techniques

Collection, preservation, histological preparation, photography and constructing scientific illustrations of marine organisms.

Prerequisite: Zoo 21

2 hrs. lec., 6 hrs. lab.

Credit : 4 units

Rationale : Proper preservation and preparation of specimens are a prime requirement for a thorough investigation of an organism's morphology. Students will also learn to construct illustrations both hand and computer generated which is essential in presentation of scientific inquiry.

9. Biol 199 - Undergraduate Seminar

Credit : 1 unit

10. Biol 200 - Undergraduate Thesis

Credit : 6 units

11. Zool 141 - Marine Invertebrates

General morphology, physiology, taxonomy and evolutionary relationships of marine invertebrates; methods of collection and preservation.

Prerequisite : Zoo 21

2 hrs. lec., 6 hrs. lab.

Credit : 4 units

Rationale : This course delves deeper into the general morphology, physiology, taxonomy and evolutionary relationships of different marine invertebrate groups for a better understanding and deeper appreciation of their role in the marine environment.

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Baybay, Leyte

ADDENDUM

Additional major course to be instituted

Biol 198 - Research Planning and Manuscript preparation
Principles of scientific writing; selecting a research problem; preparing an outline and writing a manuscript

Prerequisite: English 12
3 hrs. lect.

Credit : 3 units

Rationale : Students must take the course for them to learn the principles and processes involved in research planning and writing scientific reports. This course will also enable them to develop their skills in preparing their thesis outline or research proposal and in the conduct of research in their chosen field of specialization.

12. Zool 143 - Ichthyology

General morphology, physiology, taxonomy and evolutionary relationships of marine bony and cartilaginous fishes; methods of collection and preservation.

Prerequisite : Zoo 21

2 hrs. lec., 6 hrs. lab.

Credit : 4 units

Rationale : A general background on the morphology, physiology, taxonomy, evolutionary relationship and adaptations of marine bony and cartilaginous fishes is important considering their ecological and economic importance.

C. Ecology Major Courses to be Instituted

1. Biol 141 - Introduction to Biosystematics

Systematics, identification and nomenclature

Prerequisite: Zoo 21 & Bot 21

2 hrs lec, 3 hrs lab.

Credit : 3 units

Rationale : This course will enable the students to identify and recognize peculiar characteristics of organisms based on the existing laws of nomenclature. Thus, prepare them to identify, group, trace phylogeny and points of speciation of organisms especially those that are found in the locality.

2. Ecol 152 - Limnology

Concepts and principles of lotic and lentic freshwater systems.

Prerequisite : Eco 21

2 hrs. lec., 6 hrs. lab.

Credit : 4 units

Rationale : From this course, the students will learn how abiotic and biotic systems are interwoven and how heavily organisms and landscape depend on freshwater systems.

3. Ecol 156 - Agroecosystems

Man-made production systems and their dependence on ecological principles.

Prerequisite : Eco 21

2 hrs. lec., 3 hrs. lab.

Credit : 3 units

Rationale : The course will give students an in-depth understanding of the evolution

1 from hunting and gathering to
2 subsistence farming and fishing to
3 permanent farms and cultivation. Man
4 will be understood as being part of
5 the nutrient and energy cycle and his
6 role will be defined as geared
7 towards sustainable agriculture.
8

9 4. Ecol 172 - Socio-Ecology

10 Human history, human impact on the
11 environment and urbanization.

12 Prerequisite : Eco 21

13 3 hrs. lec.

14 Credit : 3 units

15 Rationale : Students in this course will
16 understand the history of human
17 colonization especially of Southeast
18 Asia and man's increasing impact on
19 the environment. Social factors
20 leading to overpopulation and
21 urbanization will be identified and
22 discussed in the context of the
23 relationship of development and
24 environmental degradation.
25

26 5. Ecol 181 - Biogeography

27 Ecological and historical aspects of
28 spatial distribution of plants and
29 animals.

30 Prerequisite : Zoo 21 & Bot 21

31 3 hrs. lec.

32 Credit : 3 units

33 Rationale : The students will be given in this
34 course an overview of the ecological
35 and spatial distribution of organisms
36 and the different factors that affect
37 such distribution. The biogeography
38 of Southeast Asia will be discussed in
39 detail.
40

41 6. Ecol 184 - Geomorphology

42 Landscape history and landscape
43 development under given environmental
44 conditions.

45 Prerequisite : Eco 21

46 3 hrs. lec.

47 Credit : 3 units

48 Rationale : The students will learn how landscape
49 are formed and the different forces
50 involved in their formation to serve
51 the different purposes of the living
52 biota. The history and development

the various landscape with their geological base and morphological features are of utmost importance to understand the interrelationships in the biosphere.

7. Ecol 187 - Bioindicators

Morphology and physiology of biological organisms as indicators of the ecosystem status.

Prerequisite : Biol 128

2 hrs. lec, 3 hrs. lab.

Credit : 3 units

Rationale : This will enable students to identify the morphological and physiological adaptations of organisms enabling them to survive or to be eradicated under adverse conditions. The occurrence or absence of these organisms indicate the status of areas and therefore can be used to monitor the ecological conditions of ecosystems subject to natural or anthropogenic disturbance.

8. Ecol 189 - Environmental Impact Assessment

Methods and techniques in environmental impact analysis; processes and causes of growth and degradation of the environment.

Prerequisite : Biol 128 & Biol 152, Ecol 156

3 hrs. lec.

Credit : 3 units

Rationale : The students will be oriented on the different natural and man-made stresses which cause environmental degradation and on the ways of preventing or minimizing such destruction. Furthermore, they shall be taught how to conduct environmental impact studies especially under local conditions on tropical ecosystems.

9. Zool 127 - Embryology

Development and differentiation of representative animals both vertebrate and invertebrate.

Prerequisite: Zco 21

Credit : 4 units

2 hours lec. 6 hours lab.

Rationale : An overview of the different development stages of various animals. This will give the students a better understanding of the similarities and differences of

embryonic development of various animals

10. Biol 199 - Undergraduate Seminar

Credit : 1 unit

11. Biol 200 - Undergraduate Thesis

Credit : 6 units

C. ELECTIVES to be Instituted

1. Biol 154 - Evolution

Theories, principles and mechanisms of evolution.

Prerequisite: Zoo 21

3 hrs. lec.

Credit : 3 units

Rationale : This will provide students with the basic background of the origin of organisms. Co-evolution as a means for increasing biodiversity especially in tropical ecosystems will be given focal attention.

10. Zool 125 - Comparative Vertebrate and Invertebrate

Anatomy

Anatomical features and phylogenetic development of the organ systems in the various classes of vertebrates and invertebrates.

Prerequisite : Zoo 21

3 hrs. lec., 3 hrs. lab.

Credit : 4 units

Rationale : An overview of the comparative structure of the different organs of vertebrates and invertebrates is important in order for the student to understand the animals' adaptation to a specific environment. This will give the students a better understanding of the relationship between different classes of vertebrates and invertebrates based on their structure.

2. Biol 121 - Functional Morphology

Plant and animal structures and their functions in relation to adaptation and behavior.

Prerequisite : Bio 11

2 hrs. lec., 3 hrs. lab.

Credit : 3 units
Rationale : This course will provide students with the basic knowledge on morphology. Likewise, an in-depth understanding of adaptive functions of the organisms' form and structure is provided and linked to the concept of niche adaptation especially in tropical environments.

6. Ecol 157 - Biocybernetics

Principles of systems analysis and community interaction.

Prerequisite : Math 101
3 hrs. lec.

Credit : 3 units

Rationale : This course will enable the students to analyze and describe existing communities and system relationships within the given ecosystems, communities, and populations including self-regulating mechanisms. Such knowledge will provide the students the skill to predict possible reactions or change in a given system.

12. Zool 112 - Parasitology

Systematics, morphology, and physiology of parasites that affect aquatic & terrestrial organisms.

Prerequisite : Zoo 21
2 hrs. lect., 3 hrs. lab.

Credit : 3 units

Rationale : The course will give students an overview of the different animal parasites (their life cycle and physiology) that invade terrestrial and aquatic organisms.

VIII. EXISTING STAFF

A. Core Staff

		Degree	School	Major Responsibility
1.	Corazon B. Batoy	Ph.D. Biology	U.P. Diliman	Gen. Biology Gen. Zoology Anatomy Marine Inverte Evolution Cell Biology
2.	Alejandro C. Caliente	M.S. Fisheries Biology	U.P. Visayas	Physical Ocean Ichthyology Plankton Gen. Zoology
3.	Senona A. Cesar	M.S. Marine Biology	Vrije Universiteit Brussel, Belgium	Marine Ecology Taxonomy Gen. Biology Gen. Zoology
4.	Bernardita P. Germano	Dr. Nat. Sci.	University of Vienna, Austria	Marine Ecology Physiology Chemical Ocean Gen. Biology
5.	Analyn M. Mazo	B.S. Marine Biology	MSU-Naawan	Aquaculture Marine Inver Gen. Biology Gen. Zoology
6.	Paciencia P. Milan	Ph.D. Biology	Bowling Green State University, Ohio, USA	Ecology Resource Conservation Management EIA Evolution
7.	Humberto Montes	M.S. Marine Bio	U.P. Diliman	Marine Botany Phycology Gen. Biology

B. Affiliate Staff

- | | | | |
|----------------------------|---------------------------------|---------------------------------------|--|
| 1. Victor Asio | Dr. Sci. Agr. | University of
Hohenheim
Germany | Geomorphology |
| 2. Salome Bulayog | Ph.D. Agricultural
Economics | Los Baños | Resource Economics/
EIA |
| 3. Ma. Juliet C. Ceniza | Dr. Sci. Agr. | University of
Hohenheim
Germany | Entomology
Systematics |
| 4. Buenaventura Dargantes | Dr. Sci. Agr. | University of
Hohenheim
Germany | Socio-Ecology |
| 5. Roque C. De Pedro, Jr. | M.S. Ag.Eng. | U.P. Los Baños | Calculus |
| 6. Alfredo Escasinas | Ph.D. Agronomy | U.P. Los Baños | Agro Ecosystems |
| 7. Climaco T. Espina | M.S. Ag.Eng. | U.P. Diliman | Physics |
| 8. Tomas J. Fernandez, Jr. | Ph.D. Immunology | University of
Edinburg, U.K. | Parasitology/
Embryology |
| 9. Dilberto O. Ferraren | MS Plant Genetics
Resources | Univ. of
Birmingham,
U.K. | Molecular/
Cell Biology
Biotech. |
| 10. Marita Galinato | MS Botany
MS Botany | U.P. Los Baños
Iowa State Univ. | Plant Ecology
Aquatic Eco. |
| 11. Leonardo M. Gapuz | MS AgEd | U.P. Los Baños | Comm. Extension |
| 12. Roberto Guarte | Dr. Sci. Agr. | University of
Hohenheim
Germany | Biocybernetics |
| 13. Erlinda O. Landerito | Ph.D. Chemistry | U.P. Los Baños | BioChemistry |
| 14. Jesusito L. Lim | M.S. Microbiology | U.P. Los Baños | Microbiology
EIA |
| 15. Eduardo Mangaoang | Ph.D. Forest
Economics | U.P. Los Baños | Forest Ecology |
| 16. Remberto A. Patindol | M.S. Ag.Eng. | U.P. Los Baños | Statistics |

17. Teofanes A. Patindol	M.S. Environmental Studies	U.P. Los Baños	Protected & Wildlife Mangrove Ecosystems
18. Celsa Quimio	Ph.D. Plant Breeding	U.P. Los Baños	Molecular Biology/ Biotech. Molecular Genetics
19. Justino Quimio	Dr. Nat. Sci.	University of Freiburg Germany	Forest & Gr Ecosystem/E
20. Rolinda T. Sanico	Ph.D. Agronomy	U.P. Los Baños	Plant Phys Research P
21. Lina T. Villacarlos	Ph.D. Entomology	University of Wisconsin USA	Entomology

C. Additional Manpower Requirement

- 1 M.S. Biology major in Limnology
- 3 B.S. Biology to handle General Biology/Zoology courses

III. EXISTING FACILITIES

A. Rooms and Visual Aids

- 1. Lecture Rooms
- 2. Laboratory Rooms
- 3. Visual Aids
 - a. Models
 - b. Charts
 - c. Transparencies
 - d. Filmstrips

B. Laboratory Facilities and Equipment

Item	Qty.
1. Microscopes, stereo	65
2. Water bath	5
3. Oven "Memmert"	5
4. Slide Projector	1
5. Overhead Projector	2

6. Centrifuge	4
7. Hot Plate	8
8. Spectrophotometer	1
9. Refrigerator	11
10. Sliding Microtome	2
11. Rotary Microtome	2
12. Paraffin Embedding Counter	1
13. Slide Warmer	6
14. Rotary Evaporator	1
15. Autoclave	4
16. Kodak Ektagraphic Visual Maker	1
17. Bunsen Burner	75
18. Colony Counter	2
19. Mist Blower	1
20. Sartorius Torsion Balance	2
21. Mettler Balance	1
22. Hygrothermograph	6
23. Demineralizer	2
24. Strip Chart Recorder	2
25. Planimeter	3
26. Refractometer	1
27. Stirrer Hot Plate	3
28. Paraffin Dispenser	1
29. Waring Blendor	1
30. Lab. Line Incubator	3
31. Audio Viewer, Kodak Ektagraphic	1
32. Laboratory Thermometer	50
33. Aquarium	2
34. Laboratory Counter	10
35. Pipette Washer	1
36. Water & Sewage Sampler	1
37. Furnace "Hot Pack" Heavy Duty	1
38. Sound/Slide Projector	1
39. Photomicrograph	2
40. Camera	3
41. Gas Range	3
42. pH Meter	1
43. Dissolved Oxygen Meter	1
44. Refractometer	1
45. Vertical Laminar Flow	1

C. Field Facilities

1. Motorized Boat	2
2. Scuba Diving Equipment	5 sets
3. Marine Laboratory Building	1
4. Earthen Ponds	9
5. Non-Motorized Pedicab	3
6. Secchi Disc	4
7. Underwater Cameras	5
8. Grab Sampler	6
9. Water Sampler	7

1	10. Plankton Net	12
2	11. Marine Lab Shed	1
3	12. Protected Mangrove Area	1 ha.

D. Marine Lab Equipment

6	1. Direct-reading spectrophotometer	1
7	2. Centrifuge	1
8	3. vacuum/pressure station	1
9	4. nitrate reduction columns	2
10	5. analytical balance	1
11	6. Horiba water quality checker	1
12	7. oxygen titration apparatus	1
13	8. covers	1
14	9. microfiltration apparatus	2 sets
15	10. glass homogenizer	1
16	11. plastic desiccator	1
17	12. automatic pipette (500-2500 ml)	1
18	13. stereoscope	1
19	14. magnetic stirrer (battery-operated)	1
20	15. fixed-speed shaker	1
21	16. microscope	1
22		
23		

APPENDIX I

NUMBERING SCHEME FOR BIOLOGY/ZOOLOGY/ECOLOGY COURSES

CRITERIA

A. Existing:

1. Semester Offering

- . ODD - 1st Semester
- . EVEN - 2nd Semester

2. Level of Courses

- . 1 - 19 General Education
- . 20 - 29 Fundamental
- . 100 - 199 Major
- 200 BS Thesis

3. Service Courses - end is 0

B. Additional criteria based on "horizontal" disciplines.

111 - 119	General, Basic
121 - 125	Morphology, Anatomy
126 - 129	Physiology, Behaviour
131 - 139	Genetics, Molecular/Cell Biology
141 - 149	Systematics, Taxonomy and Biology of Taxa
151 - 159	Ecosystems, Evolution, Biocybernetics, Oceanography
161 - 169	Toxicology, (Pollution)
171 - 179	Applied/Economic (EIA)/Socio-ecology
181 - 189	Conservation/Biogeography/Geomorphology
190	Special Topics/Research Problems
191 - 195	Techniques
196 - 197	History/Philosophy
198	Scientific Writing
199	Seminar
200	Thesis

Revised: 3/5/2000