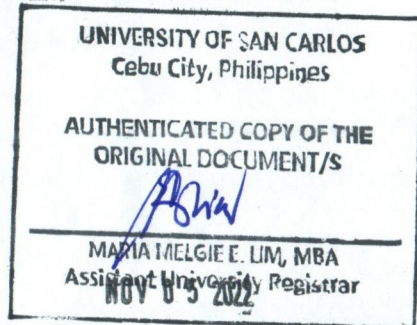




UNIVERSITY of SAN CARLOS

SCIENTIA • VIRTUS • DEVOTIO

FOR PROMOTION



To all whom these presents shall come

Greetings

Be it known that

Rev Rhizza Liong Aure

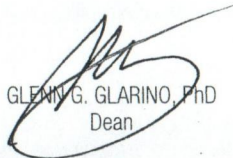
having satisfactorily completed the prescribed Curriculum, in accordance with the recommendation of the Faculty, the approval of the Board of Trustees and by Authority of the Government of the Philippines, has this day been granted the degree of

Doctor of Philosophy in Physics

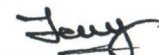
with all the Rights and Privileges thereunto appertaining.

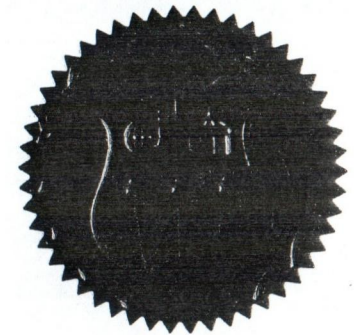
In testimony whereof are hereunto affixed the Corporate Seal of the University and the Signatures of the President, the Vice President for Academic Affairs, and the Dean.

Given at Cebu City, Philippines, this 23rd day of May 2020.


GLENN G. GLARINO, PhD
Dean


FR. NARCISO A. CELLAN, JR., SVD, DComm
President


FR. JESURAJ ANTHONIAPPEN, SVD, PhD
Vice President for Academic Affairs



OFFICE OF THE REGISTRAR

Nasipit, Talamban, 6000 Cebu City, Philippines
 Tel No. (+63 32) 230-0100 local 115, 112, 138
 Email Address: registrar@usc.edu.ph



UNIVERSITY of SAN CARLOS
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 Association of Schools, Colleges and
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SCHOOL CODE: 7078

OFFICIAL TRANSCRIPT OF RECORDS

Page 1

PERSONAL DATA

Student Name : **AURE, REV RHIZZA LIONG**
 ID Number : 06304988
 Birthdate : OCTOBER 03, 1981
 Birthplace : BAYBAY, LEYTE
 Gender : MALE
 Religion : ROMAN CATHOLIC
 Citizenship : FILIPINO
 Parent/Spouse : ROBERTO V. AURE
 Address : APARTMENT #66, KILBOURNE DRIVE, VSU,
 VISCA, BAYBAY CITY 6521, LEYTE, REGION
 8 - EASTERN VISAYAS, PHILIPPINES



Contact Number : 9083160053

PRELIMINARY EDUCATION

Elementary : VISCA FOUNDATION ELEMENTARY SCHOOL Year : 1994
 Secondary : VISCA LABORATORY HIGH SCHOOL Year : 1998

GRADING SYSTEM

	GRADE	EQUIVALENT	INDICATION
1.0	A+	100-95%	Excellent
1.1-1.5	A- A-	94-90%	Very Good
1.6-2.5	A- - B-	89-80%	Good
2.6-3.0	C+ -C	79-75%	Fair
5.0	C-	74	Failure
INC	"Incomplete"		
NC	"No Credit"		
W	"Withdrawal with official notice"		
IP	In Progress		
P	Passed		

One collegiate/graduate unit of credit is one hour lecture or recitation each week or total of 18 hours in a semester. Three hours laboratory work, drafting, or a shop work each week or a total of 54 hours a semester as regarded as equivalent also to one unit of credit.

The semestral average grade of a student is computed by multiplying the number of units assigned to a course by the grade earned and the product divided by the total units earned for the semester.

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JAMES ANTHONY T. TOLEDO
 University Registrar

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UNIVERSITY OF SAN CARLOS
 Cebu City, Philippines

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 ORIGINAL DOCUMENT/S

MARIA MELGIE E. LIM, MBA
 Assistant University Registrar
 NOV 03 2011

OFFICE OF THE REGISTRAR

Nasipit, Talamban, 6000 Cebu City, Philippines
 Tel No. (+ 63 32) 230-0100 local 115, 112, 138
 Email Address: registrar@usc.edu.ph

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UNIVERSITY of SAN CARLOS
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Page 2

Student Name : AURE, REV RHIZZA LIONG

SUMMER 2006 - M PHYSx

Code	Title	Grade	Credit/s
P 233.1NT	MATHEMATICAL METHODS IN PHYSICS 1	1.9	3.0
P 233.4NT	HISTORY OF SCIENCE	1.4	3.0
P 233.8NT	TEACHING STRATEGIES	1.4	3.0

SUMMER 2007 - M PHYS

Code	Title	Grade	Credit/s
P 233.2NT	MISCONCEPTION IN SCIENCE	1.7	3.0

FIRST SEMESTER 2011-2012 - M PHYS

Code	Title	Grade	Credit/s
P 233.0NT	CLASSICAL MECHANICS	1.3	3.0
P 233.10NT	MATHEMATICAL METHODS IN PHYSICS 2	1.2	3.0
P 233.11NT	MODERN PHYSICS	1.6	4.0
P 233.7NT	CLASSICAL ELECTRODYNAMICS	1.3	3.0

SECOND SEMESTER 2011-2012 - M PHYS

Code	Title	Grade	Credit/s
GPHYS EL1	GRADUATE PHYSICS ELECTIVE 1	1.5	3.0
P 233.3NT	THERMODYNAMICS AND STATISTICAL MECHANICS	1.2	3.0
P 233.5NT	QUANTUM MECHANICS	1.1	3.0
P 233.6NT	MODERN OPTICS	1.5	3.0

SUMMER 2012 - M PHYS

Code	Title	Grade	Credit/s
P 233.9NT	ADVANCED PHYSICS LABORATORY	1.8	3.0
PHYS 235.3	SEMICONDUCTOR PHYSICS	1.2	3.0

FIRST SEMESTER 2012-2013 - M PHYS

Code	Title	Grade	Credit/s
------	-------	-------	----------

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UNIVERSITY OF SAN CARLOS
 Cebu City, Philippines

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[Signature]
MARIA MELGIE E. LIM, MBA
 Assistant University Registrar
 NOV 05 2022

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[Signature]
JAMES ANTHONY T. TOLEDO
 University Registrar

OFFICE OF THE REGISTRAR

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Page 3

Student Name : AURE, REV RHIZZA LIONG

CAS RES	RESIDENCY IN CAS	P
Graduated	: MASTER OF PHYSICS	
Date of Graduation	: October 13, 2012	
Special Order (S.O) Requirement	: EXEMPTED. The University of San Carlos has been granted autonomous status by the Commission on Higher Education with the benefit of exemption from the issuance of Special Order (S.O.) for its graduates.	
Program Accreditation	: ACCREDITED by the Federation of Accrediting Agencies of the Philippines (FAAP) as evaluated by the Philippine Accrediting Association of Schools, Colleges and Universities (PAASCU).	

FIRST SEMESTER 2015-2016 - PHD-PHYSICS (STRAIGHT PROGRAM)

Code	Title	Grade	Credit/s
PHYS 603.1	THE THEORY OF SUPERCONDUCTIVITY	1.3	3.0
PHYS 701	CLASSICAL MECHANICS 1	1.4	3.0
PHYS 702	CLASSICAL ELECTRODYNAMICS 1	1.0	3.0
PHYS 703	QUANTUM MECHANICS 1	1.4	3.0

SECOND SEMESTER 2015-2016 - PHD-PHYSICS (STRAIGHT PROGRAM)

Code	Title	Grade	Credit/s
PHYS 234.8	ATOMIC AND MOLECULAR SPECTROSCOPY	1.4	3.0
PHYS 704	STATISTICAL MECHANICS 1	1.3	3.0
PHYS 705	CLASSICAL ELECTRODYNAMICS 2	1.0	3.0
PHYS 706	QUANTUM MECHANICS 2	1.8	3.0

SUMMER 2016 - PHD-PHYSICS (STRAIGHT PROGRAM)

Code	Title	Grade	Credit/s
CAS RES	RESIDENCY IN CAS	P	
PHYS 713	EXPERIMENTAL METHODS IN BIOPHYSICS 1 (LECTURE)	1.0	2.0
PHYS 713L	EXPERIMENTAL METHODS IN BIOPHYSICS 1 (LABORATORY)	1.0	1.0

FIRST SEMESTER 2016-2017 - PHD-PHYSICS (STRAIGHT PROGRAM)

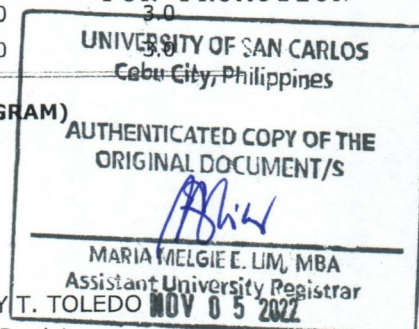
Code	Title	Grade	Credit/s
PHYS 601.1	METHODS AND APPLICATIONS OF WHITE NOISE ANALYSIS	1.6	3.0
PHYS 604.1	MANY-PARTICLE PHYSICS 1	1.0	3.0
PHYS 605.1	COMPLEX SYSTEMS	1.0	3.0

SECOND SEMESTER 2016-2017 - PHD-PHYSICS (STRAIGHT PROGRAM)

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Page 4

Student Name : AURE, REV RHIZZA LIONG

Code	Title	Grade	Credit/s
PHYS 602.1	STANDARD MODEL IN PARTICLE PHYSICS	1.5	3.0
PHYS 604.2	MANY-PARTICLE PHYSICS 2	1.3	3.0
PHYS 606.1	MEDICAL BIOPHYSICS AND SOFT MATTER PHYSICS (LECTURE)	1.0	1.0
PHYS 606.1L	MEDICAL BIOPHYSICS AND SOFT MATTER PHYSICS (LABORATORY)	1.0	2.0

SUMMER 2017 - PHD-PHYSICS (STRAIGHT PROGRAM)

Code	Title	Grade	Credit/s
PHYS 796	GRADUATE COLLOQUIUM	P	1.0
PHYS 798	DISSERTATION PROPOSAL HEARING (CANDIDACY)	IP	
PHYS 799	DISSERTATION COUNSELING	IP	
PHYS 799L	DISSERTATION LABORATORY	IP	
PHYS RES	RESIDENCY	P	

FIRST SEMESTER 2017-2018 - PHD-PHYSICS (STRAIGHT PROGRAM)

Code	Title	Grade	Credit/s
PHYS 796	GRADUATE COLLOQUIUM	1.4	1.0
PHYS 798	DISSERTATION PROPOSAL HEARING (CANDIDACY)	P	
PHYS 799	DISSERTATION COUNSELING	IP	
PHYS 799L	DISSERTATION LABORATORY	IP	
PHYS RES	RESIDENCY	P	

SECOND SEMESTER 2017-2018 - PHD-PHYSICS (STRAIGHT PROGRAM)

Code	Title	Grade	Credit/s
PHYS 797	GRADUATE SEMINAR	1.5	1.0
PHYS 799	DISSERTATION COUNSELING	IP	
PHYS 799L	DISSERTATION LABORATORY	IP	
PHYS RES	RESIDENCY	IP	

TRANSITION SEMESTER 2018 - PHD-PHYSICS (STRAIGHT PROGRAM)

Code	Title	Grade	Credit/s
PHYS 799	DISSERTATION COUNSELING	P	
PHYS 799L	DISSERTATION LABORATORY	P	

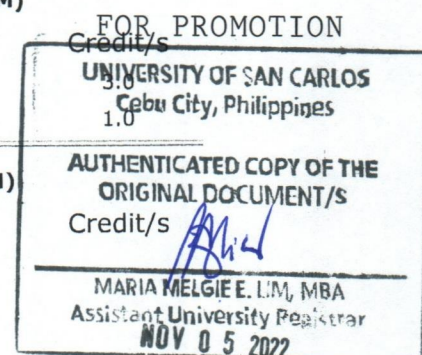
FIRST SEMESTER 2018-2019 - PHD-PHYSICS (STRAIGHT PROGRAM)

Code	Title	Grade
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UNIVERSITY of SAN CARLOS
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OFFICIAL TRANSCRIPT OF RECORDS

Page 5

Student Name : AURE, REV RHIZZA LIONG

PHYS RES

RESIDENCY

IP

SECOND SEMESTER 2018-2019 - PHD-PHYSICS (STRAIGHT PROGRAM)

Code	Title	Grade	Credit/s
PHYS RES	RESIDENCY	P	

FIRST SEMESTER 2019-2020 - PHD-PHYSICS (STRAIGHT PROGRAM)

Code	Title	Grade	Credit/s
CAS RES	RESIDENCY IN CAS	IP	

SECOND SEMESTER 2019-2020 - PHD-PHYSICS (STRAIGHT PROGRAM)

Code	Title	Grade	Credit/s
CAS RES	RESIDENCY IN CAS	P	

Graduated : DOCTOR OF PHILOSOPHY IN PHYSICS (STRAIGHT PROGRAM)
Date of Graduation : May 23, 2020
Thesis/Dissertation : "AGEING DYNAMICS OF FIBRIN USING PASSIVE MICRORHEOLOGY"
Special Order (S.O) : EXEMPTED. The University of San Carlos has been granted
Requirement : autonomous status by the Commission on Higher Education with the
benefit of exemption from the issuance of Special Order (S.O.) for its
graduates.
Program Accreditation : ACCREDITED by the Federation of Accrediting Agencies of the
Philippines (FAAP) as evaluated by the Philippine Accrediting
Association of Schools, Colleges and Universities (PAASCU).

Date Issued : October 24, 2022

Purpose : FOR PROMOTION

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Cebu City, Philippines

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MARIA MELGIE E. LIM, MBA
Assistant University Registrar

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University Registrar



SCHOOL CODE: 7078

UNIVERSITY of SAN CARLOS
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VISAYAS STATE UNIVERSITY
(Formerly Visayas State College of Agriculture and Leyte State University)
Main Campus
Visca, Baybay, Leyte 6521-4
Philippines

Tele Fax: +63 53 335 2601
+63 53 335 2644
Tel. No.: +63 53 563 7428
website: www.vsu-visca.edu.ph

OFFICIAL TRANSCRIPT OF RECORDS

PERSONAL DATA

Student Name : Aure, Rev Rhizza Liong
Student Number : 98-0-00754
Date of Birth : October 03, 1981
Place of Birth : Baybay, Leyte
Sex : Male
Religion : Roman Catholic
Citizenship : Filipino
Parent/Spouse : Roberto V. Aure
Address : VSU, Visca, Baybay City, Leyte
Tel. No./Cell. No. :
Guardian : Ma. Rachel Kim L. Aure
Address/Cell. No. : Warner Apt.101. VSU, Visca, Baybay City, Leyte



PRELIMINARY EDUCATION

Elementary : VISCA Foundation Elementary School **Year** : 1994
VISCA, Baybay, Leyte
High School : VISCA Laboratory High School **Year** : 1998
VISCA, Baybay, Leyte
Entrance : Form 138-A
Credential : VISCA Laboratory High School
VISCA, Baybay, Leyte

GRADING SYSTEM

RATING	EQUIVALENT	INDICATION
1.00	97-100	Excellent
1.25	94-96	Highly Outstanding
1.50	91-93	Very Good
1.75	88-90	Good
2.00	85-87	Very Satisfactory
2.25	82-84	Satisfactory
2.50	79-81	Fair
2.75	76-78	Passing
3.00	75	Failure
5.00	BELOW 75	

S - Satisfactory
U - Unsatisfactory
Au - Audit (No credit)

Inc - Incomplete
Drp - Dropped

One collegiate unit of credit is one hour lecture or recitation each week or a total of 18 hours in a semester. Three hours of laboratory work, drafting, or a shop work each week or a total of 54 hours a semester are regarded as equivalent also to one unit of credit.

The semestral average of a student is computed by multiplying the number of units assigned to a course by the grade earned and the product divided by the total units earned for the semester.

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LINDA N. MARISCAL
University Registrar

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Assistant University Registrar
NOV 05 2022

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JAMES ANTHONY T. TOLEDO, MM, MBA
University Registrar
NOV 05 2022

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SCHOOL CODE: 7078

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(Formerly Visayas State College of Agriculture and Leyte State University)

Main Campus

Visca, Baybay, Leyte 6521-A

Philippines

Tele Fax: +63 53 335 2601

+63 53 335 2644

Tel. No.: +63 53 563 7428

website: www.vsu-visca.edu.ph

OFFICIAL TRANSCRIPT OF RECORDS

Name : Aure, Rev Rhizza Liong Student No.: 98-0-00754
 Course : Bachelor of Science in Agricultural Engineering (BSAE)

VISAYAS STATE UNIVERSITY (VSU), Visca, Baybay, Leyte

Course No	Descriptive Title	Grade	Credits
First Semester, SY 1998-1999			
CHEM 11	GENERAL CHEMISTRY I	1.50	4.0
ENGL 11	COMMUNICATION SKILLS I	1.50	3.0
MATH 11	COLLEGE ALGEBRA	2.75	3.0
PI 11	PHIL. HISTORY CONSTITUTION & RIZAL	1.25	3.0
PSYC 11	GENERAL PSYCHOLOGY	1.00	3.0
SCSC 13	SOCIO-ECONOMIC SYSTEMS	1.50	3.0
PHYED11	PHYSICAL FITNESS AND GYMNASICS	1.50	2.0
ROTC 11	FIRST YEAR BASIC COURSE	1.50	1.5
Second Semester, SY 1998-1999			
BIO 11	GENERAL BIOLOGY	1.50	4.0
CHEM 21	GENERAL CHEMISTRY II	1.75	3.0
ENGL 12	COMMUNICATION SKILLS II	2.00	3.0
MATH 22	PLANE TRIGONOMETRY	2.25	3.0
PHILO12	CONTEMPORARY PHILOSOPHICAL THOUGHTS	1.50	3.0
SOCI 11	GENERAL SOCIOLOGY	1.75	3.0
PHYED12	REC.GAMES,RHYTHMIC ACT. AND DANCE	1.00	2.0
ROTC 12	FIRST YEAR BASIC COURSE	2.50	1.5
First Semester, SY 1999-2000			
AGRO 21	FUNDAMENTALS OF CROP PRODUCTION	1.75	3.0
ENGL 15	ADVANCED GRAMMAR AND COMPOSITION	1.75	3.0
HUM 11	INTRODUCTION TO HUMANITIES	1.75	3.0
MATH 23	ANALYTIC GEOMETRY	2.50	3.0
PHYS 11	GENERAL PHYSICS	2.75	4.0
STAT 21	ELEMENTARY STATISTICS	2.75	3.0
PHYED13	TEAM SPORTS	2.00	2.0
ROTC 21	SECOND YEAR BASIC COURSE	1.50	1.5
Second Semester, SY 1999-2000			
AE 121	ENGINEERING GRAPHICS	2.50	3.0
AE 120	S T A T I C S	2.50	3.0
AS 22	PRIN. OF ANIMAL PRODUCTION	2.00	3.0
MATH122	DIFFERENTIAL CALCULUS	2.75	4.0
PHYS 21	COLLEGE PHYSICS	2.50	3.0
SPCH 11	SPEECH COMMUNICATION	1.50	3.0
PHYED14	INDIVIDUAL/DUAL SPORTS	1.50	2.0
ROTC 22	SECOND YEAR BASIC COURSE	2.00	1.5
First Semester, SY 2000-2001			
AE 123	FUNDAMENTALS OF SURVEYING	Inc.	3.00
AE 131	D Y N A M I C S	2.75	3.0
AE 137	STRENGTH OF MATERIALS	3.00	3.0
CS 131	INTRO. TO COMPUTER PROGRAMMING	2.25	3.0
ECON 21	FARM MANAGEMENT	2.25	3.0
ENGL 26	ARGUMENTATION AND DEBATE	1.50	3.0
MATH123	INTEGRAL CALCULUS	Inc.	3.00

< continued on next page >

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UNIVERSITY OF SAN CARLOS
 Cebu City, Philippines

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MARIA MELGIE E. LIM, MBA
 Assistant University Registrar
 NOV 5 2022

UNIVERSITY OF SAN CARLOS
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JAMES ANTHONY T. TOLEDO, MM, MBA
 University Registrar

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Page 2 of 4 pages

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 yUniversity Registrar

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website: www.vsu-visca.edu.ph

OFFICIAL TRANSCRIPT OF RECORDS

Name : Aure, Rev Rhizza Liong Student No.: 98-0-00754
Course : Bachelor of Science in Agricultural Engineering (BSAE)

VISAYAS STATE UNIVERSITY (VSU), Visca, Baybay, Leyte
Course No Descriptive Title

Grade Credits

Second Semester, SY 2000-2001

AE 122	FARM SHOP PRACTICES I	2.00	3.0
AE 132	K I N E M A T I C S	3.00	3.0
AE 134	FLUID MECHANICS	Inc.	3.00
AE 136	THERMODYNAMICS	2.75	3.0
AE 138	ENGINEERING MATERIALS	2.25	3.0
MATH141	DIFFERENTIAL EQUATIONS	Inc.	3.00
SS 22	FUNDAMENTALS OF SOIL SCIENCE	2.75	3.0

First Semester, SY 2001-2002

AE 126	ELECTRONIC & ELECTRICAL ENGINEERING	2.75	3.0
AE 133	FARM SHOP PRACTICES II	Inc.	2.75
AE 141	THEORY OF STRUCTURES	3.00	3.0
AE 143	HEAT TRANSFER	Inc.	3.00
AE 145	HYDROMETEOROLOGY	Inc.	3.00
AE 147	MACHINE DESIGN	Inc.	3.00
AE 198	RESEARCH PLANN. & MANUSCRIPT PREP'N	2.00	3.0

Second Semester, SY 2001-2002

AE 135	RURAL ELECTRIFICATION	1.75	3.0
AE 142	AGRICULTURAL STRUCTURES	2.25	3.0
AE 144	FARM POWER	Inc.	1.75
AE 146	WATER MANAGEMENT ENGINEERING	2.50	3.0
AE 148	AGRIC'L. MACHINERY & EQUIPMENT MGT.	2.75	3.0
AE 200	UNDERGRADUATE THESIS	S	In Progress
SCSC 14	PHIL. SOC. PROBS., LAND REFORM & TAXN	1.75	3.0

Summer 2002

AE 200	UNDERGRADUATE THESIS	S	In Progress
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First Semester, SY 2002-2003

AE 139	ENGINEERING ECONOMY	3.00	3.0
AE 151	REFRIGERATION ENGINEERING	2.00	3.0
AE 153	ENVIRONMENTAL CONTROL ENG'G.	2.00	3.0
AE 155	SOIL & WATER CONSERVATION ENG'G.	Inc.	3.00
AE 159	CROP PROCESSING	2.50	3.0
AE 195.1	PRACTICUM IN RURAL ELECTRIFICATION	1.75	2.0
AE 200	UNDERGRADUATE THESIS	S	In Progress
PPRT 21	PRINCIPLES OF PLANT PROTECTION	2.00	3.0

Second Semester, SY 2002-2003

AE 152	ENG'G. SPECIFICATIONS & CONTRACT	2.50	3.0
AE 199	UNDERGRADUATE SEMINAR	1.75	1.0
AE 200	UNDERGRADUATE THESIS	1.50	6.0
FS 121	FUNDAMENTALS OF FARMING SYSTEMS	2.25	3.0
AE 195.2	PRACTICUM IN SOIL AND WATER MGT.	1.75	2.0
AE 195.3	PRACTICUM IN FARM MACH. & CROP PROC.	2.00	2.0

Thesis Title: COMPRESSIVE STRENGTH OF CONCRETE USING DIFFERENT
AGGREGATE SIZES

Graduated on March 31, 2003 with the degree of Bachelor of Science in
Agricultural Engineering (BSAE) as per LSU Board of Regents Resolution
No. 7, s. 2003 dated February 21, 2003.

GRANTED TRANSFER CREDENTIAL
SEP 06 2011

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No.7 s.2003 dated February 21, 2003.

VISAYAS STATE UNIVERSITY (VSU), Visca, Baybay, Leyte

Course: Master of Science (MS)

Course No.

Descriptive Title

Grade

Credit

Second Semester, SY 2003-2004

AGEN267 LAND AND WATER RESOURCE DEVELOPMENT 1.75 3.0

CS 132 COMPUTER PROGRAMMING: (BASIC) 3.00 3.0

STAT206 STAT'L METHODS FOR PHYSICAL SCIENCE 1.75 3.0

SOIL116 SOIL PHYSICS 1.75 3.0

Second Semester, SY 2004-2005

AGEN261 HYDROLOGY INC 1.75 3.0

AGEN273 SOIL ENGINEERING INC 1.50 3.0

First Semester, SY 2005-2006

AGEN205 INSTRUMENTATION FOR ENG'G. RESEARCH 2.00 3.0

FOR 143 INTRO. TO FOREST ENVIRONMENT & MGT. 1.25 3.0

Second Semester, SY 2005-2006

FOR 144 WATERSHED MANAGEMENT 1.50 3.0

University of San Carlos, P. del Rosario St., Cebu City, Cebu

Summer 2006

With Permit To Study

PHYS233.INT MATHEMATICAL METHODS IN PHYSICS I 1.9 3.0

PHYS233.4NT HISTORY OF SCIENCE 1.4 3.0

PHYS233.8NT TEACHING STRATEGIES 1.4 3.0

Summer 2007

PHYS233.2NT MISCONCEPTION IN SCIENCE 1.7 3.0

VISAYAS STATE UNIVERSITY (VSU), Visca, Baybay, Leyte

First Semester, SY 2007-2008

COSC211 COMPUTER APPLICATIONS IN ENG'G. 1.75 3.0

FOR284 ADVANCED WATERSHED MANAGEMENT 1.75 3.0

Second Semester, SY 2007-2008

AGEN264 DESIGN OF IRRIGATION SYSTEM & MGT. 1.75 3.0

First Semester, SY 2008-2009

AGEN300 MASTER'S THESIS S In Progress

Second Semester, SY 2008-2009

AGEN300 MASTER'S THESIS S In Progress

AGEN299 GRADUATE SEMINAR 1.25 1.0

First Semester, SY 2010-2011

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Second Semester, SY 2010-2011

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