





DEPARTMENT OF PURE & APPLIED CHEMISTRY

Visca, Baybay City, Leyte, PHILIPPINES Telefax: + 63 553-7747 Email: dopac@ vsu.edu.ph Website: www.vsu.edu.ph

OUTCOMES-BASED EDUCATION (OBE) COURSE SYLLABUS

Chem 127n ORGANIC CHEMISTRY I

I. UNIVERSITY INFORMATION

1. Vision of the University

A globally competitive university for science, technology, and environmental conservation

2. Mission of the University

Development of a highly competitive human resource, cutting-edge scientific knowledge and innovative technologies for sustainable communities and environment.

3. VSU Quality Policy Statement

The Visayas State University (VSU), a globally competitive university of science and technology and environmental conservation, is created by law to develop highly competitive human resource, cutting- edge scientific knowledge and innovative technologies for sustainable communities and environment.

Towards this end, we, at the Visayas State University, commit to:

- Produce highly competent, quality and world-class manpower in science and technology, especially for agriculture, environmental management and industry who are proficient in communication skills, critical thinking and analytical abilities;
- Generate and disseminate relevant knowledge and technologies that lead to improved productivity, profitability and sustainability in agriculture, environment and industry; and
- Satisfy the needs and applicable requirements of the industry, the community and government sectors who are in need of quality graduates and technology ready for commercialization through the establishment, operation, maintenance and continual improvement of a Quality Management System (QMS) which is aligned with the requirements of ISO 9001:2015.

It shall be the policy of the university that the quality policies and procedures are communicated to and understood by all faculty, staff, students and other stakeholders and that the system be continually improved for its relevance and effectiveness.

President v0 07-16-2019

73-03

4. Quality Goals of the College of Arts and Sciences

- To produce quality manpower and graduates in biology, biotechnology, chemistry, english, liberal arts and behavioral sciences, mathematics, physics, and statistics to serve the development needs of the region.
- To upliff the economic well-being of the region through relevant R and D and extension programs.
- 3. Enhance regional development of the Visayas for regional competitiveness.

5. Quality Objectives of the Department of Pure and Applied Chemistry

- Produce highly qualified and skilled Chemists and Chemical technicians for the industry and the academia.
- Generate relevant knowledge and technologies through basic and applied multi- and inter-disciplinary researches.
- Achieve strong linkages and cooperation with domestic and international institutions and agencies involved in the pursuit of sustainable development.

II. PROGRAM INFORMATION

1.	Name of the Program	Bachelor of Science in Chemistry	
2.	CHED CMO Reference	CMO No. 47 s. 2017	
3.	BOR Approval	BOR Resolution No. 63 s. 2018	

4. Program Educational Objectives and Relationship to Institution Mission

Program Educational Objectives	N	Mission*		
Program Educational Objectives	а	b	C	
 Occupy supervisory and managerial position and in educational, research institution and industries both local and international. 	1	1	V	
. Participate in multidisciplinary or cross-disciplinary research team.	V	1	V	
. Establish own chemical-based business industries.	1	V	1	
 Pursue graduate studies and specialized training program in chemistry and related field. 	1	V	1	
. Pursue other degree program.	V	V	1	

^{*}a - development of a highly competitive human resource, b - cutting-edge scientific knowledge, c - innovative technologies for sustainable communities and environment

III. COURSE INFORMATION

1. Course Code	Chem 127n			
2. Course Title	Organic Chemistry I (Lecture)			
3. Pre-requisite	Chem 115 – Principles of Chemistry (Lecture) Chem 115.2 – Principles of Chemistry (Laboratory)			
4. Co-requisite	Chem 127.2 - Organic Chemistry I (Laboratory)			
5. Credit	3 units			
6. Semester Offered	1 st semester			
7. Number of hours	3 hrs/week			
8. Course Description	Fundamental chemical concepts on organic structure, stereochemistry, nomenclature, and comparative spectroscopic analysis of functional groups.			

Pr	Program Outcomes (POs)		mes (POs) Program Educat Objectives						
		1	2	3	4	5			
A	Demonstrate a broad and coherent knowledge and understanding in the core areas of chemistry: inorganic, organic, physical, biological and analytical chemistry; and in addition the necessary background in mathematics and physics.	1	1	1	1	1			
В	Gather data using standard laboratory equipment, modern instrumentation and classical techniques.	٧	1	V	1	V			
С	Identify and solve problems involving chemistry, using current disciplinary and interdisciplinary principles.	٧	٧	1	1	1			
D	Qualify for further study and/or for entry-level professional employment in the general workplace.	1	٧	1	1	V			
E	Work effectively and independently in multi-disciplinary and multi-cultural teams (PQF level 6 descriptor).	1	1		1	V			
F	Act in recognition of professional, social, and ethical responsibility.	1	1	1	1	1			
G	Effectively communicate orally and in writing using both English and Filipino.	1	1	1	1				
Н	Articulate and discuss the latest developments in the specific field of practice (PQF level 6 descriptor).	1	٧		V				
1	Interpret relevant scientific data and make judgments that include reflection on relevant scientific and ethical issues.	1	1		1	1			
J	Preserve and promote "Filipino historical and cultural heritage" (based on RA 7722).	1	٧	9	1	1			

After completing this course, the student must be able to perform the following COs:	Program Outcomes Code									
able to perform the following COs:	A	В	С	D	E	F	G	H	1	J
CO1 Apply the concepts of organic structural theory to explain and predict the physical properties and chemical reactivity of organic molecules ranging from simple organic compounds to macromolecules and biomolecules.	1		1	,			1	1		
CO2 Use molecular models/softwares for conformational analysis and stereochemical projections of chiral compounds.	1		1	1	1		1	1		
CO3 Recognize stereochemical differences, i.e. subtle differences in the three-dimensional structure of organic molecules which affect optical, physical and chemical properties; assign the configuration at each chiral center in an asymmetric molecule.	1		1	1			I	1		
CO4 Identify organic compounds, give their IUPAC names, and draw the molecular structures of these compounds.	1		1	1			1	1		
CO5 Apply chemical methods and spectroscopic techniques such as UV-Visible, IR, NMR, and MS for the analysis of simple organic compounds.	1		1	1	1		I	1		

Legend: I - Introductory, E - Enabling, D - Demonstrative

Each letter indicates the expected level of competency that each CO should provide for each PO.

Class Orientation At the end of this meeting, the student must be able to: OBE Course Syllabus OSTAIR THE COURSE STAIR THE COURSE SYLLABUS STAIR THE CO	Week	Tonics	Learning	Teaching an Activi	Assessmen	
At the end of this meeting, the student must be able to: OBE Course Syllabus VSU Vision Mission, and Quality Policy Statement Class Policies Grading System and Activities Netiquette Guide for Online Users Netiquette Guide for Online Users Values Integration: Integrity, Determination, Responsibility, Honesty, Patience, Open-mindedness, or integrity, Determination, Responsibility, Honesty, Patience, Open-mindedness, or integrity. At the end of this meeting, the student Meeting Meetin	week	Topics	Outcomes			lasks
this meeting, the student must be able to: OBE Course Syllabus State the basic information regarding the course. VSU Vision Mission, and Quality Policy Statement Class Policies Grading System and Activities Submission of requirements Netiquette Guide for Online Users Netiquette Guide for Online Users Netiquette Guide for Online Users Station the sudent must be able to: Class Orientation Class Orientation Q & A for claffication, setting of expectations, and getting-to-know-each other Sharing of ldeas Introduction and navigation of the Virtual Classroom: Conduct online class requirements Conduct online class orientation VSUEE/VC: Chem 127n Organic Chemistry I Convey his/her expectations of the course. Values Integration: Integrity, Determination, Responsibility, Honesty, Patience, Open-mindedness,	Class	Orientation				
and Positive Attitude	1	Class Orientation OBE Course Syllabus VSU Vision Mission, and Quality Policy Statement Class Policies Grading System and Activities Submission of requirements Netiquette Guide for Online Users Values Integration: Integrity, Determination, Responsibility, Honesty, Patience, Open-mindedness, and Positive Attitude	this meeting, the student must be able to: State the basic information regarding the course. Recognize the VSU VMGO, Quality Policy Statement. Discuss the course policies Identify the class requirements Communicate his/her internet connection capabilities. Convey his/her expectations of the course.	Class Orientation Q & A for clarification, setting of expectations, and getting-to-know-each other Introduction and navigation of the Virtual Classroom: Conduct online class orientation VSUEE/VC: Chem 127n Organic Chemistry I	the discussion Class interaction Sharing of Ideas Feedbacks Familiarization with the virtual classroom	Recitation
CO1: Apply the concepts of organic structural theory to explain and predict the physical properties and chemical reactivity of organic molecules ranging from simple organic compounds to macromolecules and biomolecules. Module No. 1 Draw molecular	p	roperties and chemical ompounds to macromol	reactivity of organic	molecules rangir	predict the phy ng from simple	ysical organic

Vision: Mission: A globally competitive university for science, technology, and environmental conservation. Development of a highly competitive human resource, cutting-edge scientific knowledge and innovative technologies for sustainable communities and environment. Page 4 of 14 TP-IMD-08 v1 11-19-2021

Lesson No. 1.1	(Lewis, skeletal, condensed,	Face-to-Face Meeting	Class	Quizzes: Face-to-
Nature, scope, and	resonance),	mooning	Intordocion	face and/or
relevance of organic	calculate the	Lecture with	Note-taking	through
chemistry	formal charge/s,	Discussion		VSU E-
	and identify the	through	Sharing of	Learning Portal
Lesson No. 1.2	chemical bonds	PowerPoint	Ideas	Portai
Brief history	of a molecule.	presentation		
		procentation	Peer	
Lesson No. 1.3	Determine the	Give	discussion	100 H-117
Atomic structure:	geometry and	assignments/		0
Carbon and other	forces of	problem sets/	Seatwork	Quiz # 1
elements commonly	attraction in	worksheets	and/or	Secret B
found in organic	organic		board work	
compounds	molecules		exercises	
Lesson No. 1.4			Feedbacks	
Electron accounting	Identify the		Carping St.	- C
and Lewis structure	different classes			Quiz#2
of organic molecules	of organic compounds		VSUEE/VC:	
Lesson No. 1.5			Downloading	
Hybridization and			resource	
the geometry and			materials	Quiz#3
shape of simple				
organic molecules:			Answer	Quiz#4
bond			Learning	
strength			Tasks/Quiz	
Lesson No. 1.6				
Intermolecular and				
intramolecular				Quiz # 5
attractive forces				
Lesson No. 1.7				
Lewis and Bronsted-			A TOWN	Quiz#6
Lowry acids and				QUIZ IF O
bases				
Lesson No. 1.8				
Functional group				Quiz # 7
Values Integration:				
Integrity,			1-1-13	First Long
Determination,				Examination (Module
Responsibility,				No. 1):
Honesty, Patience,				Face-to-
Open-mindedness,				Face
and Positive Attitude				

CO2: Use molecular models/softwares for conformational analysis and stereochemical

projections of chiral compounds.

CO3: Recognize stereochemical differences, i.e. subtle differences in the three-dimensional structure of organic molecules which affect optical, physical and chemical properties; assign the configuration at each chiral center in an asymmetric molecule.

	Module No. 2			1	
		Predict the	Free to F	01	Quizzes:
1	Stereochemistry and	property and	Face-to-Face	Class	Face-to-
	Stereochemical	reactivity of a	Meeting	interaction	face and/or
	Analysis	molecule based	Company of the compan		through
4	The state of the s	on its shape.	Lecture with	Note-taking	VSU E-
		femelioned 5 h	Discussion		
		of the second second	through	Sharing of	Learning Portal
	Lessure Co. 3.2	Identify the	PowerPoint	Ideas	Portal
	Lesson No. 2.1	different	The state of the s	10000	The state of the
	Optical activity and	stereoisomers	presentation	Peer	Quiz # 8
	chirality	and conformers		discussion	Guiz II 0
	ormanty		Give	uiscussion	
	Lesson No. 2.2		assignments/		
			problem sets/	Seatwork	Quiz#9
	Types of		worksheets	and/or	
	configurational		THE RESERVE OF THE PARTY.	board work	
	isomers		grantagh digita 7th	exercises	
	(enantiomers,			PROVIDE STATE	
	diastereomers, and	William Library		Feedbacks	The state of the s
1	meso compounds),				139 318
	racemic mixtures			The second second	CHARGE 16-3
				VSUEE/VC:	
	Lesson No. 2.3		1	TOULLIVO.	
	Use of			Doumlandina	
	stereochemical			Downloading	
				resource	
	drawings (flying	a of the last		materials	- W - W
	wedge, Fischer,				
4	Newman, and			Answer	
-	sawhorse projection)			Learning	
				Tasks/Quiz	
	Lesson No. 2.4			Telegraphic Control	The state of the s
	Molecular				
	configuration (R and				Quiz # 10
	S designations)		THE REAL PROPERTY.		
	Lesson No. 2.5				All Statutes
	Conformations and				
	conformational				23/19/20/20/20
	analysis				
	analysis				Second
	Lesson No. 2.6				Long
					Examination
	Relevance to				(Module
	biological activity				No. 2):
	(e.g., drugs, flavor				Face-to-
	compounds and				Face
	agrochemicals)			98 30 30	
				1	-
				The State of the	
	Values Integration:				
	Integrity,			1	
	Determination,				
	Responsibility,			THE REAL PROPERTY.	
	Honesty, Patience,				
	Open-mindedness,	LOWER STATE OF		1	
	and Positive Attitude				
	Jana i John Amidae				

	of these compounds. Module No. 3	Name, draw,			Sent mort
	Chemistry of the different classes of	and distinguish the different	Face-to-Face Meeting	Class interaction	Quizzes: Face-to- face and/o
	Organic Compounds	functional groups of	Lecture with	Note-taking	through VSU E-
	Lesson No. 3.1 Different classes of	organic compounds.	Discussion through	Sharing of .	Learning
	organic compounds based on their	Familiarina with	PowerPoint presentation	Ideas	
	functionality, nomenclature, physical properties,	Familiarize with the physical properties,	Give	Peer discussion	
	sources, uses, preparation, and	sources, uses, preparation and	assignments/ problem sets/ worksheets	Seatwork and/or	
	analysis	analysis the different classes	worksneets	board work exercises	
	3.11 Saturated hydrocarbons: aliphatic and	of organic compounds		Feedbacks	Quiz # 11
	cyclic			VSUEE/VC:	
	3.12 Unsaturated hydrocarbons: aliphatic, cyclic			Downloading resource	Quiz # 12
5-8	and polyenes			materials	
	3.13 Benzene and aromatic			Answer Learning	Quiz # 13
	derivatives			Tasks/Quiz	Third!
	CONTRACTOR OF THE STATE OF THE				Third Long Examination (Module No. 3.11- 3.13): Face-to- Face
	3.14 Alkyl halides				Quiz # 14
	3.14 Alkyl halides				
	Values Integration: Integrity, Determination,				
	Responsibility, Honesty, Patience, Open-mindedness,				
	and Positive Attitude				

	Module No. 3 Chemistry of the different classes of Organic Compounds Lesson No. 3.1 Different classes of organic compounds based on their functionality, nomenclature, physical properties, sources, uses, preparation, and analysis	Name, draw, and distinguish the different functional groups of organic compounds. Familiarize with organic compounds obtained from local/natural sources.	Face-to-Face Meeting Lecture with Discussion through PowerPoint presentation Give assignments/ problem sets/ worksheets	Class interaction Note-taking Sharing of Ideas Peer discussion Seatwork and/or board work exercises	Quizzes: Face-to- face and/or through VSU E- Learning Portal
	3.15 Alcohols, phenols, ethers and epoxides			Feedbacks	Quiz # 15
	3.16 Thiols and Sulfides	THE STATE OF THE S	Figure 1	VSUEE/VC: Downloading	Quiz # 16
	3.17 Amines		16coming (china) Coming (china) China (china)	resource materials	Quiz # 17
10-14			Programme States of the Control of t	Answer Learning Tasks/Quiz	Fourth Long Examination (Module No. 3.14- 3.17): Face-to- Face
	3.18 Aldehydes and Ketones			Production of	Quiz # 18:
	3.19 Carboxylic acids and its derivatives			VSUSEAVER	Quiz # 19 Quiz # 20
					Fifth Long Examination (Module No. 3.18- 3.19): Face-to- Face
	Lesson No. 3.2 Polymer and its properties				Quiz # 21
	Lesson No. 3.3 Introduction to biomolecules:				Quiz # 22

	Carbohydrates.				
	Lipids, Nucleic			THE REAL PROPERTY.	and the same
	acids, and proteins				
	Lesson No. 3.4				
	Introduction to	A MARKET HE AND A PARTY	A DOME SOME		
	Green Chemistry				Quiz # 23
	Values Integration:	Street years		4	
	Integrity,				
	Determination,	The state of the state of			
	Responsibility,				
	Honesty, Patience,		The Groupe	Continue to	
	Open-mindedness,				
	and Positive Attitude				
CO5:	Apply chemical methods and MS for the analysis	and spectroscopic	techniques suc	h as I IV-Vieible	ID NIND
-		of simple organic c	ompounds.	TO OV-VISIDIO	, IT, INIVITY,
	Module No. 4	Interpret UV-Vis,		-	Quizzes:
	Introduction to	IR, MS, and	Face-to-Face	Class	Face-to-
	Spectroscopy	NMR spectra.	Meeting	interaction	face and/o
	Lesson No. 4.1	The state of	Lecture with	Note-taking	VSU E-
	UV-Visible		Discussion	140te-taking	Learning
			through	Sharing of	Portal
	Lesson No. 4.2		PowerPoint	Ideas	0.1-404
	Infrared		presentation	Idodo	Quiz # 24
			presentation	Peer	
	Lesson No. 4.3		Give	discussion	Mark San Land
	Mass Spectrometry		assignments/		
	Lesson No. 4.4		problem sets/	Seatwork	
5-16	Nuclear Magnetic		worksheets	and/or	
	Resonance			board work exercises	Quiz # 25
	Values Integration:	Showing San in		Feedbacks	Sixth Long
	Integrity,				Examination (Lesson
	Determination,				No. 3.2-3.4
	Responsibility,			VSUEE/VC:	and Module
	Honesty, Patience,	RANGE OF STREET			4): Face-to-
	Open-mindedness,			Downloading	Face
				resource	
	and Positive Attitude			motorna	
	and Positive Attitude			materials	
	and Positive Attitude				
	and Positive Attitude			Answer	
	and Positive Attitude	PR 201 11 11	M 404-00		

* VSUEE/VC - VSU E-Learning Environment/ Virtual Classroom

12. Life-long Learning Opportunities

The student will be able to differentiate organic chemistry from inorganic chemistry; identify the hybridization and types of bonds in a hydrocarbon molecule; write the names and draw the structures of the different isomers of hydrocarbon and its derivatives; know their

properties, sources and uses; and specify the spectroscopic technique to determine the functional group of the organic molecule.

13. Contribution of Course to Meeting the Professional Component (%)

General Education: 0%

Basic Education (Foundation): 0%

Professional Education (Major Field): 100%

14. References and Other Learning Resources

A. Textbook(s)/ E-Books

Baker, A. D., J.I. Rizzo and R. Engel. 2008. Organic Chemistry. Pearson Custom Publishing.

Banzal, R.K. and R.V. Banzal. 2006. Organic Chemistry. Problems and Solutions. 2nd Edition. New Age International Ltd.

Bell, B. and C. Gunter. 2006. Organic Chemistry Microscience Experiments. UNESCO.

Brown, W.H., C.S Foots, B.L. Iverson and E.V. Anslyn. 2018. Organic Chemistry. 8th Edition. Brooks/Cole Publishing

Bruice, P.Y. 2016. Organic Chemistry, 8th Edition. Pearson Education, Inc.

Carey, F.A. and R.M. Guiliano. 2017. Organic Chemistry. 10th Edition. The McGraw-Hill Companies, Inc.

Hornback, J.M. and B. Murugaverl. 2006. Organic Chemistry. 2nd Edition. Thomson Brooks/Cole

Klein, D.R. 2017. Organic Chemistry. John Wiley and Sons, Inc.

McMurry, J. 2016. Organic Chemistry. 9th Edition. Cengage Learning

Meislich, H., H. Mechamkin, J. Sharafkin, and G. Hademenos. 2010. Organic Chemistry. Schaum's Outline. 4th Edition. The McGraw-Hill Companies, Inc.

Ouellette, R. J. and J. D. Rawn, 2015. Principles of Organic Chemistry. Elsevier Inc.

Solomons, T.W.G., C.B. Fryhle and S.A. Snyder. 2016. Organic Chemistry. 12th Edition. John Wiley and Sons, Inc.

Volhardt, P. and N. Schore. 2014. Organic Chemistry. Structure and Function. 7th Edition. W.H. Freeman and Company

Wade, L.G. Jr. 2013. Organic Chemistry. 8th Edition. Pearson Education, Inc.

B. Other Learning Resources

Journals

Videos

Websites

Webinars

Open Educational Resources

15. Course Assessment and Evaluation

The performance of students will be assessed and evaluated based on the following: 50% Midterm + 50% Final Term = 100% (Overall Final)

Item No.	Assessment Tasks	Percentage Contribution (1)	No. of Times in the Semester (2)	Individual Task % Contribution (1/2)
1	Quizzes (Q)	40	25	1.6% / Q
2	Long Exams (LE)	60 100%	6	10% / LE

COs	Assessment Tasks	Weight in Percent	Minimum Average for Satisfactory Rating	Target and Standards	
CO 1	Quizzes (1-7)	11.20	60 %	At least 60% of the	
	Long Exam (1st)	10.00		students have at least 60% score	
CO 2 to 3	Quizzes (8-10)	4.80	60 %	At least 60% of the students have at least 60% score	
	Long Exam (2nd)	10.00			
CO 4 Long Exam (3rd 5th)	Quizzes (11-23)	20.80	60 %	At least 60% of the students have at least 60% score	
	Long Exam (3rd to 5th)	30.00			
	Quizzes (24-25)	3.20		At least 60% of the	
CO 5	D 5 Long Exam (6th) 10.00	60 %	students have at least 60% score		
	TOTAL	100%			

Range	Grade	Range	Grade
97 - 100	1.00	75 - 79	2.25
93 - 96	1.25	70 - 74	2.50
89 - 92	1.50	65 - 69	2.75
85 - 88	1.75	60 - 64	3.00
			0.00

below 60

16. Course Policies

80 - 84

Grading System (% Passing: 60 %)

2.00

5.00

A. Classroom Rules

a. Face-to-face (offline) Mode:

All students are required to maintain the cleanliness of the classroom at all times.
Thus, all chairs, tables, and other items present in the classrooms must be returned
to their proper places after every class.

Trashes are to be thrown in garbage bins near the classroom.

- Students are to turn their cellular phones off or in silent mode for the class duration and are not allowed to use their cellular phones except for emergency purposes.
- Students are encouraged to take down notes using pen and paper. Upon the approval of the instructor, notes written on the board or presented may be photographed.
- Working/reading/studying on subject matters not related to the subject matter of the class or course is not allowed.

b. Online Mode:

- In blended learning, the official virtual classroom is VSU E-Learning Environment (VSUEE) (https://elearning.vsu.edu.ph). Therefore, a class orientation concerning the use and navigation of the platform will be done.
- In case when face-to-face meeting is not possible due to certain circumstances, Google Meet will be used for web-conferencing and real-time class meetings. The username and password link will be posted in VSUEE/VC.
- Class interaction and participation are encouraged during meetings. Students will be sharing ideas, feedback on outputs, and other related concerns in the subject during this time.

B. Attendance and Absences

- Students who commit six (6) consecutive absences without prior notice to the faculty are considered dropped.
- Suppose a student is absent and wishes to be excused for the said absence, he/she must write an excuse letter or present a medical certificate from the university health services to the faculty. (Section 298 and 299, ViSCA Code)
- For online classes, attending virtual meetings is highly encouraged. However, if you cannot attend due to internet connection limitations, keep up with the lessons and do all the necessary exercises.

C. Quizzes, Problem Sets, and Examinations

- Quizzes should be done and completed within the allotted time. These are either announced or unannounced. Meanwhile, online quizzes must be submitted and completed through the VSUEE portal within the allotted time.
- 2. All examinations will be done on-site based on the schedule agreed upon by the class or the registrar for term examinations. Special/make-up exams will not be given without a valid excuse. A reasonable proof to justify your absence must be presented if an exam is missed without advance notice due to illness or emergency. The validity of the reason will be up to the discretion of the instructor/professor.
- Make sure your answers are original. Once caught cheating with your classmates or retrieving answers from any solving site on the internet, your answers will be considered wrong. Consequently, a failing grade of 5.00/DR will be given.

Furthermore, University rules on cheating will be strictly implemented.

D. Reference/Instructional Materials

This Chem 127n Biochemistry OBE Syllabus and the pdf files of lecture powerpoint presentations posted in VSUEE are the official instructional materials in this subject. They will serve as your guide in learning for the whole semester.

E. Consultation/Clarifications

For any inquiries/clarifications, you may contact the course instructor/professor through email or in person during the official class schedule: Monday to Friday from 8:00 AM to 5:00 PM only.

F. Other Important Rules

- All students must adhere to the VSU Health and Safety Protocol while attending onsite meetings.
- All students are reminded to observe all university policies, regulations, and rules. In addition, everyone is advised to read, understand, and practice the provisions of the VSU Student Manual. Non-compliance to the said policies shall have their respective consequences set by the instructor.
- By the end of the first half of the semester, students who have not complied with any
 course requirements (less than 50% compliance) and have been absent without
 official leave (AWOL) are considered unqualified. Hence, a final remark of dropped
 will be given at the end of the semester.

These class policies shall serve as our written agreement for the whole semester and are solely applicable to this subject. If there are any changes to enhance the class learning opportunity within the semester, the instructor/professor will communicate with you accordingly.

17. Course Materials and Facilities Available

- 1] Learning Guide/Handouts/Lecture Notes
- 2] Wifi/Internet/Videos
- 3] Laptop/Desktop/Smartphone
- 4] DLP Projector and Projector Screen
- 5] Classroom

Revision number	Date of Revision	Date of implementation	Highlights of Revision
01	07/05/2018	08/01/2018	OBE-compliant CMO No. 47 s. 2017
02	12/26/2019	01/01/2020	ISO compliant format
03 09/07/2022		09/12/2022	Newly approved template (v1 11-19-2021) Updated for Blended Learning Approach (Face-to-Face and/or Virtual Meeting)

Prepared by	Name	Cinnet		
	· raino	Signature	Date Signed	
	YHENA L. BANDIBAS	18 partiba	Sept. 7, 2022	

INSTRUCTOR/PROFESSOR INFORMATION IV.

Name of Instructor/Professor	Yhena L. Bandibas
2. Office and Department	
3. Telephone/Mobile Numbers	Department of Pure and Applied Chemistry 09175552712
4. Email Address	
5. Consultation Time	yhena.lazona@vsu.edu.ph
	Mon - Fri 8 AM - 5 PM (if available)

20. Department Instructional Materials Review Committee:

Committee	Name	Signature	Date Signed
Member:	ATOZ A. VASQUEZ	000	01
Member:	MA. ROBELYN A. INSIK	samuel -	30 3,202
Chairperson:	ELIZABETH S. QUEVEDO	4 mod	Sypt 7, 2022 Sypt 8, 2620

	Name	Signature	Date Signed
Verified by:	MA. THERESA P. LORETO Dean, CAS		
Validated by:	NANCY D. ABUNDA Head, IMD		

- 1) The number of POs will depend on each degree program offered
- 2) COs and Relationship to POs
 - a. (I) Introductory an Introductory Course to an outcome
 - b. (E) Enabling an Enabling Course or a course that strengthens the
 - c. (D) Demonstrated a Demonstrative Course or a course demonstrating an

Distribution of copies: OHIMD, Department, Faculty