





DEPARTMENT OF PURE AND APPLIED CHEMISTRY

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OUTCOMES-BASED EDUCATION (OBE) COURSE SYLLABUS

Chem 122 - Organic Chemistry 2nd Semester, A.Y. 2022-2023

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.

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

President v0 07-16-2019

- 4. Quality Goal of the College of Arts and Sciences
 - To produce quality manpower and graduates in liberal arts and behavioral sciences, chemistry, biology, mathematics, physics, and statistics to serve the development needs of the region;
 - b. To uplift the economic well-being of the region through relevant R and D and extension programs; and
 - c. Enhance the regional development of the Visayas for global competitiveness.
- 5. Quality Objectives of the Department of Pure and Applied Chemistry.
 - a. Produce highly qualified and skilled Chemists and Chemical Technicians for the university and academia;
 - b. Generate relevant knowledge and technologies through basic and applied multiand interdisciplinary researches; and
 - 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 Marine Biology	
2.	CHED CMO Reference	CMO no. 46 s 2017	
3.	BOR Approval	BOR Resolution No. 62 s 2018	

4. Program Educational Objectives and Relationship to Institution Mission

	Brogram Educational Objectives			
	Program Educational Objectives		b	C
1.	Develop graduates with a clear recognition and understanding of the dynamics of marine life and its ecosystem.	1	4	٧
2.	Conduct actual field or hands-on experience.	V	V	V
3.	Provide foundations for future careers in marine biology, conservation, oceanography, biomedicine, molecular biology, university teaching, fisheries etc.	1	4	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 122
2. Course Title	Organic Chemistry
3. Pre-requisite	Chem 110 Inorganic Chemistry
4. Co-requisite	Chem 122.2 Organic Chemistry (Laboratory)
5. Credit	3 units
6. Semester Offered	2 nd semester
7. Number of hours	3 hrs/week
8. Course Description	The course involves a study of the principles and theories important to the practice of analytical chemistry. It involves a discussion of the techniques, methods and instrumentation involved in determining the amount of constituents in samples. Particular attention is given to stoichiometric problems.

1	Recognize 10 A A for a lidest	Program E	Program Educational Objectives			
	Program Outcomes (POs)	elnet dedon	2	3		
a	Apply scientific knowledge in general problem solving	Sook V	briovia	1		
b	Have skills that can contribute to the management of tropical marine resources	ng Syktem	bane V	٧		
С	Pursue further careers in related field (e.g., research, teaching, resource management, etc.)	lo noissi	ndu2	4		
d	Have knowledge to promote sustainable utilization of marine resources	altymen	↓ Requ	1		

Conwinunicate

After completing this course, the student must be able to perform the following COs:		Program Outcomes Code			
		a	b	C	d
CO1.	Apply the concepts of organic structural theory to explain and predict the physical properties and chemical reactivity of organic molecules ranging	1		E	
	from simple organic compounds to macromolecules and biomolecules.		concepts of concep		COT
CO2.	State the unique properties of carbon and the diversity in the structures of organic compounds based on functional groups.	tles of og unctonal	s to macronic inique propin s basad on f	State the condound	CO2
CO3.	Illustrate the different types of organic reactions and reaction mechanism.	lage	lion to	Inianduc	
CO4.	Give the IUPAC name, draw molecular structures, and the reactions of organic compounds.	inoni st8 =	int: Inorganic	Ledeon and Ome	
CO5.	Apply their knowledge of organic chemistry to the other aspects of their overall education.	bniip	D abi	Compour	E

Legend: I – Introductory, E – Enabling, D – Demonstrative
Each letter indicates the expected level of competency that each CO should provide for each PO.

11. C	Course Content and Plan	Draw the molecular.	s of carbon	propertie	
*	group activities seature	structures (Lowis,	Teaching and Lea	arning Activities	Assessmen
Week	Topics	Learning Outcomes	Teaching Activities	Learning Activities	t Tasks
Class	Orientation ·	Simple organic	and Bonding		
VC: VC: sdin too	OBE Course Syllabus VSU Vision Mission, and Quality Policy Statement Class Policies Requirements	At the end of this meeting, the student must be able to: State the basic information regarding the course.	Face to Face Classes and assisted by Printed Learning Guides. Class orientation	Participation in class discussion Class interaction	Oral recitation

O lane		relation to the Pro	itcomes (POs) in	Sharing of	
	Learning	Recognize the	Q & A for	ideas	
	Guide/Instructional	VSU VMGO,	clarification,		
	Workbook	Quality Policy	setting of	Familiarizati	
	10.1	Statement.	expectations,	on of the	
- 7/4	Grading System and	Daniel Britain d	and getting-to-	virtual	
	Activities	Discuss the	know-each	classroom	
	Activities	The second secon	other	Classicotti	
	O. bustanian of	course policies	otner	Daniel Control	
	Submission of	the second second	- 1 - 1	Downloadin	
	Requirements		Feedbacks	g of	
		requirements	nurces	resource	
			VSUEE/VC:	materials	
	Values Integration:	Communicate	Familiarization		
	open-mindedness,	his/her internet	of the virtual		
	responsibility, and	connection	classroom	0. Course Ou	
-	readiness for learning	capabilities.	in famel samon		
90	Selection Ontollines of	anapula anapula		After completing	
	0 . 0	ving COs: 8	perform the follow	of side ed teun	
		nin	concepts of orga	orit vicena Programa	5
			theory to explain		100
					100
	3	III III III III III III III III III II	cal properties and	e (uct au	
	Module 1:	Differentiate	Face to face:	Class	-
	Introduction to	organic and	Meetings #2 to	interaction	
	Organic Chemistry	inorganic	#5 TO DEET DOE	reactions	San and
		compounds	IUPAC name, dra	Note-taking	Quiz # 1
	Lesson 1.1: Inorganic	State the	Lecture with	Biructure	to 4
	and Organic		discussion	Sharing of	10 4
	Compounds	unique properties	through	ideas 800	
	C C	and allotropes of	powerpoint	chemistr	
		carbon	presentation	Peer	
		 Identify the type 	1		
	Chapter of applicable to each PC	of chemical	tone E - Enabling L	MISCHISSIAN	1
	Laccon 1 7: Allotronia		Educational	discussion	
	Lesson 1.2: Allotropic	bonds .	Educational	Chrysler whitel the	
	forms and unique	bonds . • Draw the	video	Group	
			video presentation	Chrysler whitel the	
1-2	forms and unique properties of carbon	Draw the molecular	video presentation Facilitate	Group activity	
1-20	forms and unique properties of carbon	Draw the molecular structures (Lewis,	video presentation Facilitate group activities	Group activity Seatwork	
gni	forms and unique properties of carbon	Draw the molecular structures (Lewis, skeletal,	video presentation Facilitate group activities	Group activity Seatwork and/or	3
TO HOLD	forms and unique properties of carbon Lesson 1.3: Electronic	Draw the molecular structures (Lewis, skeletal, condensed) of	video presentation Facilitate group activities Give	Group activity Seatwork and/or board work	77.5
gni	forms and unique properties of carbon	Draw the molecular structures (Lewis, skeletal, condensed) of simple organic	video presentation Facilitate group activities Give assignments/p	Group activity Seatwork and/or	
ing ties	forms and unique properties of carbon Lesson 1.3: Electronic	Draw the molecular structures (Lewis, skeletal, condensed) of simple organic molecules	video presentation Facilitate group activities Give assignments/p roblem	Group activity Seatwork and/or board work exercises	
ing ties	forms and unique properties of carbon Lesson 1.3: Electronic Structure and Bonding	Draw the molecular structures (Lewis, skeletal, condensed) of simple organic molecules Calculate the	video presentation Facilitate group activities Give assignments/p roblem sets/worksheet	Group activity Seatwork and/or board work	
ing ties	forms and unique properties of carbon Lesson 1.3: Electronic Structure and Bonding	Draw the molecular structures (Lewis, skeletal, condensed) of simple organic molecules Calculate the formal charge	video presentation Facilitate group activities Give assignments/p roblem sets/worksheet s	Group activity Seatwork and/or board work exercises	
ing ing thes king	forms and unique properties of carbon Lesson 1.3: Electronic Structure and Bonding Lesson 1.4:	Draw the molecular structures (Lewis, skeletal, condensed) of simple organic molecules Calculate the formal charge Draw the	video presentation Facilitate group activities Give assignments/p roblem sets/worksheet	Group activity Seatwork and/or board work exercises	
ing ties king atio	Lesson 1.4: Classification of	Draw the molecular structures (Lewis, skeletal, condensed) of simple organic molecules Calculate the formal charge Draw the isometric and	video presentation Facilitate group activities Give assignments/p roblem sets/worksheet s	Group activity Seatwork and/or board work exercises Feedbacks	
ing ing thes king	Lesson 1.3: Electronic Structure and Bonding Lesson 1.4: Classification of Organic Compounds	Draw the molecular structures (Lewis, skeletal, condensed) of simple organic molecules Calculate the formal charge Draw the	video presentation Facilitate group activities Give assignments/p roblem sets/worksheet s	Group activity Seatwork and/or board work exercises Feedbacks VSUEE/VC:	
ing ties king king atio	Lesson 1.3: Electronic Structure and Bonding Lesson 1.4: Classification of Organic Compounds	Draw the molecular structures (Lewis, skeletal, condensed) of simple organic molecules Calculate the formal charge Draw the isometric and	video presentation Facilitate group activities Give assignments/p roblem sets/worksheet s	Group activity Seatwork and/or board work exercises Feedbacks VSUEE/VC: Downloadin	
ening ing saito atio atio atio	Lesson 1.3: Electronic Structure and Bonding Lesson 1.4: Classification of Organic Compounds	Draw the molecular structures (Lewis, skeletal, condensed) of simple organic molecules Calculate the formal charge Draw the isometric and resonance	video presentation Facilitate group activities Give assignments/p roblem sets/worksheet s	Group activity Seatwork and/or board work exercises Feedbacks VSUEE/VC:	

	es/pretest/p		Differentiate		Answer	
	delteo		valence bond model from		learning tasks/quizz	
	Learning		molecular orbital		es/pretest/p	
0.0	Guide:		model		osttest	
	Independen		Discuss the			
	t study		hybridization,		Learning	
			geometry, bond		Guide:	
	ons of organic	es, and the resoli	strength, bond	UPAC name, dra	Independen	
	Name of south he	etoegaa rento en	energy and bond	us. Ir knowledge of o	t study	
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	Cless	Face to face:	double triple	3.	Module	
	interaction	Meetings #8 to	bonded carbon in	:enodss		
St ziug		01#	simple organic	s, Alkenes, and		
0.10	Note-taking		molecules		Alkynes	
1 1/2		Lacture with	Identify the			12009
	Sharing of		functional groups			
	ideas		in an organic			
		powerpoint	Classify organic	3.1:	Lesson	
000	1989		compounds		sensilA	0 100
Long Exam #2	upleanosip		according to their			
01-006			functional groups.			
908	CO3: Illustrate	the different type	s of organic reactions	s and reaction me	chanism	
and/or Prough	Module		CONTRACTOR OF THE PARTY OF THE	Face to face:	Class	
VSU E-	The Contract of the Contract o	ction to	Identify the type	Meetings #6 to	interaction	
primae	The state of the s	n Mechanism	of organic	#7	miorada	
Portal)	show brand	Give	reactions		Note-taking	Quiz # 5 to 7
		2.1: What kind	Write the starting organic #	Lecture with	nosse.	10 /
	of organ	nic reactions	material, organic	discussion	Sharing of	
	occur?	sels/worksheel	product and/or	through	ideas	
			necessary	powerpoint		
	VSUEBIVC:		reagents for	presentation	Peer	Long
Note:			chemical	Educational	discussion	Exam #1
	Downloadin		reactions that are	Educational video		Face-to
		2.2: How do	characteristic of	presentation	Group	face
		reactions	the different	Facilitate	activity	and/or
	occur?		functional	group activities	Seatwork	through VSU E-
	3-5		classes of	group wonthioo	and/or	Learning
	leaming tasks/quizz		organic	Give .	board work	Portal)
	es/pre/pset/p		compounds	assignments/p	exercises	
	desileo		Write the overall	roblem	J. 10.000	
E No.	Journey		reaction and	sets/worksheet	Feedbacks	
	Learning		reaction	8	171000	
Br. Tall	Guides		mechanism		VSUEE/VC:	
	Independen		Use curved arrows to show			
TETE	t study		the movement of		Downloadin	
			electrons in bond		g resource	
			breaking and		materials	
	Class		bond forming	4. Aromatic	Module	
	Interaction		processes	bns anodis	Answer	
Quitz #11			processor	abnu	learning	
10 14	Note-taidng			Vita de la constante de la con	tasks/quizz	

9-10	A STATE OF THE RESIDENCE OF THE PARTY OF THE	e 4. Aromatic carbons and ounds	Recognize the concept of	Face to face: Meetings #11 to #12	Class interaction Note-taking	Quiz #1 to 14
8	materia		. MIDTERM EX	The state of the s		
-	g reson		bond of enginesis			
	Downle		the movement of		t study	
			works to show		Independen	
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			medianism		Learning	
icks	Feedba	"teorlashowlatea"	poilmen	-		1
		meidon	* Write the overall bus notices		osttest	
1	exercis		compounds		es/pretest/p	12.3
Show	board v		organio		tasks/quizz	
	and/or		classes of		learning	
id-	Sealwo		lenotionul		Anewor	1
	activity		the different	reactions	materials	
6-7	Group		characteristic of	2.2: How do	g resource	
	-		reactions that are		Downloadin	
nos	discuss		chemical			
			reagents for		VSUEE/VC:	
		powerpoint	VIBSBOOKI	S		The L
	ideas		product and/or	sets/worksheet	Feedbacks	1 18
30	Alkynes		compounds	roblem	of organ	
		3.3: Twenthe	& related cyclic	assignments/p	exercises	
prio			alkenes, alkynes	Give	board work	Portal)
1			cycloalkanes,	mainsrippi n	and/or	Learning
no	Aikenes	Meetings #6 to	the alkanes &	group activities	Seatwork	VSU E-
	Alkenes		the reactions of	Facilitate	activity	and/or through
-	Losson	3.2: Olosen bins	structures and	presentation	activity	face
			molecular	video	Group	Face-to
			draw the	Educational	discussion	Exam #2
	Alkanes	5	IUPAC names,	presentation	Peer	Long
	Lesson	The state of the s	Give the	powerpoint		
			related sciences	through	ideas	
		MAN STATE	biology and	discussion	Sharing of	1
			various fields of	Lecture with		
	Alkyne	AND A COLOR OF THE PARTY OF THE	between organic chemistry with		Note-taking	to 10
		s, Alkenes, and	relationship	#10		Quiz #8
	200200000000000000000000000000000000000	arbons:	Evaluate the	Meetings #8 to	interaction	
	Module		plain siduob	Face to face:	Class	
CO5: /	Apply the ducation	eir knowledge of o	rganic chemistry to	the other aspects	of their overall	
C	ompoun	ds.				
CO4: 0	Give the	IUPAC name, dra	w molecular structu	res, and the react	ons of organic	
- 8					1 Study	
			e Discuss the		Independen t study	
			lebom		Guide:	
qVta					Learning	
					osttest	

7 9	Lesson 4.1: Aromaticity of Benzene Ring Lesson 4.2: Heterocycles and the Stability of the Benzene Ring	aromaticity in the case of benzenes • Give the IUPAC names, draw the molecular structures and the reactions of the aromatic hydrocarbons and compounds • Describe the concept of aromaticity, heterocycles and polycyclic aromatic hydrocarbons	Lecture with discussion through powerpoint presentation Educational video presentation Facilitate group activities Give assignments/p roblem sets/worksheet s	Sharing of ideas Peer discussion Group activity Seatwork and/or board work exercises Feedbacks	
UO D	ce to fece: Class leafings #16 lineraction line with courselon cough ough werpoint werpoint discussion leco sentation leco collitate collitate coup activities and/or	nnies, draw the descriptions of the actions of the actions, its propounds, its privatives and privatives and Summarize the rique properties the these organic Fall	de & n c c c c c c c c c c c c c c c c c c	Learning Guide: Independen t study	
11-12	Module 5. Alkyl Halides, Alcohols and Phenols and Derivatives Lesson 5.1: Alkyl Halides (Halogen- containing compounds) Lesson 5.2: Alcohols and Phenols (Hydroxyl-containing compounds) Lesson 5.3: Ethers, Thiols and	Give the IUPAC names, draw the molecular structures and the reactions of the alkyl halides, alcohols and phenols, ethers,	Face to face: Meetings #13 to #15 Lecture with discussion through powerpoint presentation Educational video presentation Facilitate group activities Give assignments/p roblem sets/worksheet s	Class interaction Note-taking Sharing of ideas Peer discussion Group activity Seatwork and/or board work exercises Feedbacks	Quiz #15 to 20 Long Exam #3 Face-to face and/or through VSU E- Learning Portal)

	Sharing of ideas discussion Group activity Seatwork and/or exercises	ecture with sough rough werpoint from the sentation ducational resentation solilitate roup activities seignments/p	ise of benzenes di Give the IUPAC the smes, draw the projecular projecular projecular de aromatic de aromatic de aromatic de compounds projeculate the compounds concept of compounds aromaticity, de aromatic	o Benzene in the Benzene and t	VSUEE/VC: Downloading resource materials Answer learning tasks/quizz es/pretest/p osttest Learning Guide:	
	Feedbacks	teerlahowkete	comalic		Independen t study	
	Containin Compour Amines Lesson 6 Aldehydes	.1: s and Ketones .2: c Acid and Its	Give the IUPAC names, draw the molecular structures and the reactions of carbonyl-containing compounds, its derivatives and amines Summarize the unique properties of these organic compounds	Face to face: Meetings #16 to #18 Lecture with discussion through powerpoint presentation Educational video presentation Facilitate group activities Give assignments/p	Class interaction Note-taking Sharing of ideas Peer discussion Group activity Seatwork and/or board work exercises	Quiz #21 to 24
374 xi 13-	interaction 41	feetings #13 o #16		roblem sets/worksheet	Feedbacks	
Long Exam #3 Face-to face-to and/or through	Sharing of ideas Pear discussion Group activity Seatwork	ecture with iscussion frough owerpoint resentation ideo ideo resentation ideo resentation resentation resentation roup activities	ne reactions of the alkyl halides, it is alkyl halides, it is and thought and thought and thought all the supposition that	es (Halogen- compounds)	A CONTRACTOR OF THE PARTY OF TH	***
Learning Portal)	and/or board work exercises Feedbacks	Sive resignments/p oblem' rets/worksheet		:8. bins aloir	Learning Guide: Independen t study	

	Module 7.renogmo0 ter	Relate organic	Face to face:		13.
	Introduction to Biochemistry	compounds to biomolecules	Meetings #19 to #20	interaction	Quiz #25
		Briefly discuss the structure and	Lecture with	Note-taking	to 30
	Lesson 7.1: Carbohydrates	properties of carbohydrates, lipids, amino	discussion through powerpoint	Sharing of ideas	
S Made	Lesson 7.2: Lipids	acids, proteins and nucleic acids.	presentation Educational	Peer discussion	Long Exam #4 Face-to face
a hnebuti gnime	(\$100) 3 nome/ 8 3 Lesson 7.3: (hessa) (th	nstyn E. V. Foote C nuet organic chant	video presentation Facilitate	Group	and/or through VSU E-
d.). Cong	Amino Acids & Proteins		group activities Give	Seatwork and/or board work	Learning Portal)
15-16	Nucleic Acids	ey's Sons.	sets/worksheet	exercises Feedbacks	
	stry (29th ed.), McGraw-H		L (2012), Harper's	VSUEE/VC:	
dition. V	bhreon R. G. & Antilla J. rganic chemistry eleventh gloaf chamistry (6th ed.)	ual to accompany o	S. (2013). General	Downloadin g resource materials	
e om erb	rais of biochemistry: life at		age Leaming. et J. G. & Pratt C. V (Filth), John Wiley	Answer learning	
			aming Resources	tasks/quizz es/pretest/p osttest	
			ucational Resource	Learning Guide: Independ	
			d bus themeso	ent study	15
47		EINAI EYA	MINATION		

FINAL EXAMINATION

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

12. Life-long Learning Opportunities

The students will be able to identify the different kinds of organic compounds and their classification into distinct families based on the type of their functional groups. With their knowledge on the correct naming and proper structure as well as the distinct properties of these organic molecules, they can visualize the varied and wide applications of these organic compounds may it be in biosynthesis or bioprocesses, in industrial applications, or in primary scientific fields. The student will be able to build the interconnectivity and the relationship within each of the different organic families and correlate them to different uses of these organic molecules, may it be in the academic field or everyday living.

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

General Education Courses:

0%

Basic Education (Foundation):

Quiz #25

Exam #4 Fata-to

10\1016

through

VSU E-

Fortal)

20%

Professional Education/Major Courses: 80%

14. References and Other Learning Resources

A. Textbook(s)/ E-Books

Bettelheim F. A. Brown W. H. Campbell M. K. Farrell S. O. Torres O. J. & Madsen S. (2020). Introduction to general organic and biochemistry (Twelfth). Cengage.

Brown W. H. Iverson B. L. Anslyn E. V. Foote C. S. & Iverson S. (2014). Student study guide and solutions manual: organic chemistry (Seventh). Cengage Learning.

Campbell M. K. Farrell S. O. & McDougal O. M. (2018). *Biochemistry* (9th ed.). Cengage Learning.

Garrett R. H. & Grisham C. M. (2017). Biochemistry (Sixth). Cengage Learning.

Klein D. R. (2020). Organic chemistry as a second language: first semester topics (5e [Fifth edition]). John Wiley & Sons.

McMurry J. (2016). Organic chemistry (Ninth). Cengage Learning.

Murray R. K. (2012). Harper's illustrated biochemistry (29th ed.). McGraw-Hill Medical.

Solomons T. W. G. Fryhle C. B. Snyder S. A. Johnson R. G. & Antilla J. (2014). Study guide and solutions manual to accompany organic chemistry eleventh edition. Wiley.

Stoker H. S. (2013). General organic and biological chemistry (6th ed.). Brooks/Cole Cengage Learning.

Voet D. Voet J. G. & Pratt C. W. (2016). Fundamentals of biochemistry: life at the molecular level (Fifth). John Wiley & Sons.

B. Other Learning Resources

Journals

Videos

Websites

Webiners

Open Educational Resources

15. Course Assessment and Evaluation

The performance of students will be assessed and evaluated based on the following:

50% Midterm Points + 50% Final term Points = (Overall Total Points) 100%

Item No.	Assessment Tasks	Percentage Contribution	No. of Times in the Semester (2)	Individual Task % Contribution (1/2)
1	Quizzes	20	30	0.67%
3	Term Exams (TE)	40	2	20%
4	Long Exams (LE)	30	and assub 4 om bineg	7.5%
5	Class Report (CR)	d no slee 10 yeard no		10%
clivity	ole to build the interconne	100%	y scientific fields. The	naming ni
BILID	of merti elalenco one sedin	Weight in	Minimum Average	enotisies
COs	Assessment Tasks	Weight in Percent	for Satisfactory Rating	Target and Standards

CO1 to CO5	LODO Exams	20% 30% 40% 10%	60%	At least 60% of the students have at least 60% score
	TOTAL	100%	slated through the	STING D

Grading System (Passing Rate: 60%)			
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
80-84	2.00	Below 60	5.00

16. Course Policies of home aldenoaces A segons billed a fundam naving

A. Classroom Rules ou ed like noasen edt to vilbillev ed T. vanagreme

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

- All students are required to always maintain the cleanliness of the classroom.
 Thus, all chairs, tables, and other items present in the classrooms must be returned to their proper places after every class.
- 2. 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 them 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 topic of the class is not allowed.

of ma total morb. Online Mode: a subjective each tability and public morage of to liam-e

- 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.
- Zoom or Google Meet will be used for web-conferencing and real-time class meetings. The username and password link will be posted in VSUEE/VC.
- 3. Students are to turn their cellular phones off or in silent mode for the class duration and are not allowed to use them except for emergency purposes.

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. In that case, 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.
- In answering the Learning Tasks/Problem sets, he/she can do the following:
 - a. Handwritten or encoded in MS Word file format
- b. General format:
 - i. A4 size bond paper
 - ii. 1" margin on all sides
 - iii. Arial, 12 font size, double space (for encoded outputs)

This requirement should be submitted on or before the due date. Late submission will no longer be accepted.

- 3. 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.
- 4. Make sure your answers are original. Once caught cheating with your classmates or retrieving answers from any solving site on the internet 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

The Learning Guide and this Chem 122 Organic Chemistry OBE-Syllabus posted in VSUEE are the official instructional materials in this subject. It will serve as your guide in blended learning for the whole semester.

E. Consultation/Clarifications

For any inquiries/clarifications, you may contact the course instructor/professor through e-mail or in person during the official class schedule: Monday to Friday from 8:00 am to 5:00 pm only.

F. Other Important Rules (19 ube usy gnimsele) agrid) (3302V

- All students must adhere to the VSU Health and Safety Protocol while attending on-site 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.
- 3. 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 to pass the course, hence, a final remark of dropped will be given at the end of the semester.

This class policy shall serve as our written agreement for the whole semester. If there are any changes to enhance the class learning opportunity within the semester, it will be communicated accordingly.

17. Course Materials and Facilities Available

Printed Learning Guide, Digital and Physical Reference Chemistry Books, Personal Laptop, Syllabus, Power Point Presentations, Video Lectures and Internet Resources.

Revision F	listory	**	amoniuo
Revision number	Date of Revision	Date of implementation	Highlights of Revision
01	02/13/23	February 15, 2023	OBE-compliant CHED CMO No. 46 s 2017; ISO compliant format v.02 11-14-2022
00	03/10/21	March 15, 2021	OBE-compliant CHED CMO No. 46 s 2017; ISO compliant format

	Name	Signature	Date Signed
Prepared by	Genesis C. Albarico	of	February 15, 2023

IV. INSTRUCTOR/PROFESSOR INFORMATION

1. Name of Instructor/Professor	Genesis C. Albarico
2. Office and Department	Department of Pure and Applied Chemistry
3. Telephone/Mobile Numbers	(053) 565 0600 loc. 1032
4. Email Address	genesis.albarico@vsu.edu.ph
5. Consultation Time	TBA
Name of Instructor/Professor	Helen Grace F. Oracion
2. Office and Department	Department of Pure and Applied Chemistry
3. Telephone/Mobile Numbers	+639073118005
4. Email Address	helengrace.oracion@vsu.edu.ph
5. Consultation Time	TBA

20. Department Instructional Materials Review Committee:

Committee	Name	Signature	Date Signed
Member:	VIVIAN P. LINA		
Member:	MARIA ROBELYN A. INSIK		
Chairperson:	ELIZABETH S. QUEVEDO		

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

Note:

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 outcome
 - c. (D) Demonstrated a Demonstrative Course or a course demonstrating an outcome.

(3) Distribution of copies: OIMD, De	epartment, Faculty	
	March 15, 2021	

	Genesis C. Albarico	

MISTRUCTORPROFESSOR INFORMATION

	Department of Pure and Applied Chemistry	
27		
	Helen Grace F. Oracion	
	Department of Pure and Applied Chemistry	. Office and Departmet/I
		. Telephone/Mobile Numbers
	ABT	

20. Department Instructional Materials Review Committee:

Mamber	VIVIAN P. LINA	
	MARIA ROBELYN A. INSIK	

	Marrio	
	NANCY D. ABUNDA Head, IMD	Validated by: