





# DEPARTMENT OF PURE AND APPLIED CHEMISTRY

Visca, Baybay City, Leyte, PHILIPPINES Telefax: 053-563-7747 Email:dopac @vsu.edu.ph Website: www.vsu.edu.ph

### TABLE OF SPECIFICATIONS

Chem 157 – Physical Chemistry I 2nd Semester AY 2021 -2022

Examination: XX Midterm \_\_\_\_Final

Date of Examination: 7 April 2022

		Course Outcome/ Learning Outcome (CO/LO)		Taxonomy of Objectives						
Content	No. of Meeting S		Outcome/ Learning %	Remembering	Understanding %	Applying %	Analyzing %	Evaluating %	Creating %	Total Items
Intro- duction to Physical Chemistry	2	CO 1 / LO 1.1-2.2	43.8	11.0	15.2	11.0	6.9	4.2	2.4	25
Mathemat ical Formalis ms for Physical Chemistry	2	CO 1 / LO 2.1-2.2	13.8	1.7	1.7		5.2	3.4	1.7	8
Ideal or Perfect Gases	2	CO 2 / LO 3.1-3.2	22.4		6.9	1.7	7.0	5.2	1.7	13
Real or Imperfect Gases	2	CO 2 / LO 4.1-4.2	20.0	2.76	3.8	2.8	1.7	1.0	1.0	12
Total	8		100%	15.5	27.6	15.5	20.8	13.8	6.8	58
Item Arrange ment			2	I:1-4, 6-7, 9, 11-12	I: 5,8, 10 II: 10 III: 1,4 6,11, 14- 20, 34	II: 4, III: 21-28	II:3,5, 8 III:5, 8-10, 29-33	II:2,6, 9 III:7, 12- 13, 35-36	II:1,7 III:2-3,	

Type/s of Test: (example: Multiple Choice, Alternative Response, Essay, Fill in the blanks, etc)

Test I: True or False (T/F)
Test II: Problem Solving (PS)
Test III: Multiple Choice (MC)

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.

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No. 22-19

Droporod	Name of Course Instructor /Professor	Signature	Date Signed
Prepared by:		<b>A</b>	
Σy.	FELIX M. SALAS	War.	18 March 2022

### Department Instructional Materials Review Committee:

Committee	Name	Signature	Date Signed
Member:	ATOZ A. VASQUEZ		3/28/20
Member:	MARIA ROBELYN AUREO-INSIK	manuel	3/10/n
Member:	JACOB GLENN F. JANSALIN	far fil	3/21/22
Chairperson	ELIZABETH S. QUEVEDO	an	4/4/22

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

Note: A copy of the test paper with answer key shall be attached to the TOS for review of the DIMRC. After approval the test paper will be returned to the concerned faculty and will not be attached to the TOS when submitted to the College Dean and OHIMD.

#### REMINDER:

- 1. The author should not be part of the DIMRC.
- If the author is the Department Head, he/she will be replaced by another chairperson from among the senior faculty members.
- 3. \*\*If the author is the College Dean, the Head of Instructional Materials Development will approve.
- 4. Follow the next higher supervisor, no same person
- 5. For the component campuses, if the author is the College Dean, the Director for Academic Affairs will approve.
- 6. If the author is the Department Head and at the same time the College Dean, the Director for Academic Affairs will be the Chairperson of the DIMRC, and the Chancellor will approve it.

(3) Distribution of copies: OHIMD, Department, Faculty,







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### **TABLE OF SPECIFICATIONS**

Chem 141 – Qualitative Chemistry 2<sup>nd</sup> Semester AY 2021 -2022

Examination: XX Midterm \_\_\_\_Final

Date of Examination: 7 April 2022

	No. of Meeti ngs	Course Outcome/ Learning Outcome (CO/LO)		Taxonomy of Objectives						
Content			%	Remembering	Understanding %	Applying %		Evaluating	Creating %	Total Items
				_%				_%		
Introduction to Qualitative Chemistry	2	CO 1 LO 1.1-1.2	14.9	4.5	4.5	3.0	3.0			10
Common Analytical Processes for Qualitative Chemistry	2	CO 1 / LO 2.1-2.2	19.4	13.9	6.4			1.0		14
Solubility Equilibria and Hydrolysis Reactions	2	CO 2/ LO 3.1-3.2	19.4	10.0	7.0			0.5		12
Precipitatio n and Complexati on Reactions for Qualitative Analysis	2	CO 2 / LO 4.1-4.2	46.3	23.8	20.9				1.5	31
Total	8		100%	52.2	38.8	3.0	3.0	1.5	1.5	67
Item Arrangeme nt			-	II: 1-9 III: 1-26	II: 10- 21 III: 27-40	1:1-2, 11:4	I:3-4 II:1,5	I: 5 II:2,7	I: 6 II:3,6	

Type/s of Test: (example: Multiple Choice, Alternative Response, Essay, Fill in the blanks, etc)

Test I Essay

Test II Multiple Choice (MC)

Test III True or False

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Name of Course Instructor /Professor	Signature	Date Signed
EELIY M SALAS	A L	18 March 2022
	Name of Course Instructor /Professor FELIX M. SALAS	at)

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