



TABLE OF SPECIFICATIONS

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

Examination: XX Midterm Final

Date of Examination: 7 April 2022


Content	No. of Meetings	Course Outcome/ Learning Outcome (CO/LO)	%	Taxonomy of Objectives						Total Items
				Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	
				___%	___%	___%	___%	___%	___%	
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				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,	

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


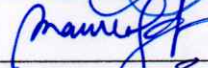
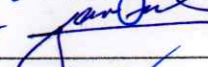

Test I: True or False (T/F)

Test II: Problem Solving (PS)

Test III: Multiple Choice (MC)

Prepared by:	Name of Course Instructor /Professor	Signature	Date Signed
	FELIX M. SALAS		18 March 2022

Department Instructional Materials Review Committee:

Committee	Name	Signature	Date Signed
Member:	ATOZ A. VASQUEZ		3/28/22
Member:	MARIA ROBELYN AUREO-INSIK		3/25/22
Member:	JACOB GLENN F. JANSALIN		3/21/22
Chairperson	ELIZABETH S. QUEVEDO		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.
2. *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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Chem 141 – Qualitative Chemistry
2nd Semester AY 2021 -2022


Examination: XX Midterm Final

Date of Examination: 7 April 2022

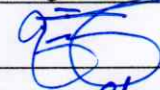
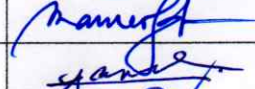
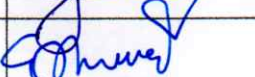
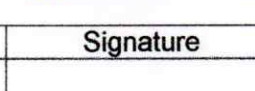
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				Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	
				___%	___%	___%	___%	___%	___%	
Introduction to Qualitative Chemistry	2	CO 1 LO 1.1-1.2	14.9	4.5	4.5	3.0	3.0			10
Common Analytical Processes for Qualitative Chemistry	2	CO 1 / 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
Precipitation and Complexation 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 Arrangement				II: 1-9 III: 1-26	II: 10-21 III: 27-40	I: 1-2, II: 4	I: 3-4 II: 1,5	I: 5 II: 2,7	I: 6 II: 3,6	

Types 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

Prepared by:	Name of Course Instructor /Professor	Signature	Date Signed
	FELIX M. SALAS		18 March 2022

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