



## TABLE OF SPECIFICATIONS

Chem 208 – Chemical Thermodynamics  
2nd Semester AY 2022 -2023

Examination: ☐ Midterm ☒ Final

Date of Examination: June 21, 2023

Content	No. of Meetings	Course Outcome/Learning Outcome (CO/LO)	%	Taxonomy of Objectives						Total Items
				Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	
				___%	___%	___%	___%	___%	___%	
First Law of Thermodynamics	3	CO 3 / LO 6.1-6.2	34.0	6.0	8.0	8.0	4.0	4.0	4.0	17
Second Law of Thermodynamics	3	CO 4 / LO 7.1-7.2	34.0	6.0	8.0	8.0	4.0	4.0	4.0	17
Third Law of Thermodynamics	3	CO 4 / LO 8.1-8.2	32.0	6.0	8.0	6.0	4.0	4.0	4.0	16
<b>Total</b>	<b>9</b>		<b>100%</b>	<b>18.0</b>	<b>24.0</b>	<b>22.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>50</b>
Item Arrangement				II: 1,2, 3,11, 12,13, 19,20, 21	I:1,2, 9,10, 18 II:4,5, 9,16, 17,18, 24	I:3,4, 11,12, 19 II:6,7, 8,14, 15,23	I:5,6, 13,14, 20,21	I:7,15, 16, 22,23 II:22,	I:8,17, 24,25 II:10,25	

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

Test I  
Test II

Multiple Choice  
Modified True or False

Prepared by:	Name of Course Instructor /Professor	Signature	Date Signed
	FELIX M. SALAS		June 13, 2023

**Vision:**  
**Mission:**

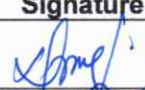
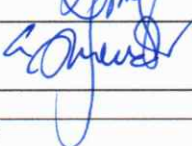
A globally competitive university for science, technology, and environmental conservation.  
Development of a highly competitive human resource, cutting-edge scientific knowledge and innovative technologies for sustainable communities and environment.

Page 1 of 1

TP-IMD-09  
v02 11-14-2022

No. 23-08

**Department Instructional Materials Review Committee:**

Committee	Name	Signature	Date Signed
Member	ALLAN A. RAMAL		
Chairperson/ Department Head:	ELIZABETH S. QUEVEDO		13 June 2023
Verified By:	ANABELLA B. TULIN Dean, Graduate School		
Validated by:	NANCY D. ABUNDA Head, IMD		

*Note: A copy of the test paper with answer key shall be attached to the TOS.*

*Distribution of (3) copies: OIMD, College, Department, Faculty,*