CHEM 1151L - Survey of Inorganic Chemistry Lab (version 201003L)

Course Title	Course Development	Learning Support
Survey of Inorganic Chemistry Lab	Standard	No

Course Description

Selected laboratory experiments paralleling the topics in CHEM 1151. The lab exercises for this course include units of measurements, structure of matter, chemical bonding, chemical reactions, gas laws, liquid mixtures, acids and bases, salts and buffers, and nuclear chemistry.

Pre-requisites

Pre-requisites: None

Regstr. Co-requisites

Regstr. Co-requisites: NoneMATH 1101 OR MATH 1103 OR MATH 1111 AND CHEM 1151.

True Co-requisites

True Co-requisites: All Required

CHEM 1151 - Survey of Inorganic Chemistry (201003L)

Course Length

	Lecture Contact Time	Regular Lab Type	Reg. Lab Contact Time	Other Lab Type	Oth. Lab Contact Time	Total Contact Hrs
Contact Hours Per Week	**0 hrs**	**N/A**	**0 hrs**	**Lab**	**3 hrs**	**3 hrs**
Contact Min/Hrs Per Semester	**0 min**		**0 min**		**2250 min**	**45 hrs**

	Lecture Credit Hours	Lab Credit Hours	Total Credit hours	WLU
Semester Credit Hours	**0**	**1**	**1**	**56.25**

Competencies & Outcomes

Order	Description

1 **Laboratory Safety**

Order	Description	Learning Domain	Level of Learning
1	Discuss and apply laboratory exercises encompassing the appropriate practice of laboratory precautions and laboratory safety.	Cognitive	Comprehension

2 **Units of Measurement**

Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing units of measurement.	Cognitive	Synthesis

3 **Structure of Matter**

Order	Description	Learning Domain	Level of Learning

1	Perform and apply laboratory exercises encompassing structure of matter.	Cognitive	Synthesis

4 **Chemical Bonding**

Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing chemical bonding.	Cognitive	Synthesis

5 **Chemical Reactions**

Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing chemical reactions.	Cognitive	Synthesis

6 **Gas Laws**

Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing gas laws.	Cognitive	Synthesis

7 **Liquid Mixtures**

Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing liquid mixtures.	Cognitive	Synthesis

8 **Acids and Bases**

Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing acids and bases.	Cognitive	Synthesis

9 **Salts and Buffers**

Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing salts and buffers.	Cognitive	Synthesis

10 **Nuclear Chemistry**

Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing nuclear chemistry.	Cognitive	Synthesis