# CHEM 1211L - Chemistry Lab I (version 201003L)

Course Title Course Development Learning Support

Chemistry Lab I Standard No

## **Course Description**

Selected laboratory exercises paralleling the topics in CHEM 1211. The laboratory exercises for this course include measurement, physical and chemical properties of matter, atomic structure, chemical bonding, nomenclature, chemical reactions, stoichiometry and gas laws.

### **Pre-requisites**

Pre-requisites: One Required

MATH 1101 - Mathematical Modeling ( 201003L )
MATH 1103 - Quantitative Skills and Reasoning ( 201614L )

MATH 1111 - College Algebra (201003L)

# Regstr. Co-requisites Regstr. Co-requisites: None

### **True Co-requisites**

True Co-requisites: All Required

CHEM 1211 - Chemistry I ( 201003L )

**Course Length** 

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	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 Cr	edit Hours	Lab Credit Hours	Total Cred	dit 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 measurements.	Cognitive	Synthesis

Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing physical and chemical properties of matter.	Cognitive	Synthesis
Atomic	Structure		
Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing atomic structure.	Cognitive	Synthesis
Chemic	al Bonding		
Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing chemical bonding.	Cognitive	Synthesis
Nomen	clature		
Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing nomenclature.	Cognitive	Synthesis
Chemic	al Reactions		
Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing chemical reactions.	Cognitive	Synthesis
Stoichic	ometry		
Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory exercises encompassing stoichiometry.	Cognitive	Synthesis
Gas Lav	ws		
Order	Description	Learning Domain	Level of Learning
1	Perform and apply laboratory evercises encompassing ass laws	Cognitive	Synthocic

Perform and apply laboratory exercises encompassing gas laws.

Cognitive

Synthesis