

Cover Sheet: Request 11599

CHM2095L Chemistry Lab 1 for Engineers

Info

Process	Course New Ugrad/Pro
Status	Pending
Submitter	Korolev, Maria V korolev@chem.ufl.edu
Created	4/5/2017 12:43:42 PM
Updated	9/22/2017 2:50:48 PM
Description of request	Laboratory experiments designed to complement CHM2095.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CLAS - Chemistry 011606000	Angerhofer, Alexander		5/17/2017
No document changes					
College	Approved	CLAS - College of Liberal Arts and Sciences	Pharies, David A		9/22/2017
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			9/22/2017
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

Course|New for request 11599

Info

Request: CHM2095L Chemistry Lab 1 for Engineers

Description of request: Laboratory experiments designed to complement CHM2095.

Submitter: Pharies,David A pharies@ufl.edu

Created: 9/22/2017 2:50:37 PM

Form version: 3

Responses

Recommended PrefixCHM

Course Level 2

Number 095

Category of Instruction Introductory

Lab Code L

Course TitleChemistry Lab 1 for Engineers

Transcript TitleChm Lab 1 for Eng

Degree TypeBaccalaureate

Delivery Method(s)On-Campus

Co-ListingNo

Effective Term Fall

Effective Year2018

Rotating Topic?No

Repeatable Credit?No

Amount of Credit1

S/U Only?No

Contact Type Regularly Scheduled

Weekly Contact Hours 3

Course Description Laboratory experiments designed to complement CHM2095.

Prerequisites None.

Co-requisites CHM2095

Rationale and Placement in Curriculum We are attempting to make a course tailored to a target population of engineering students. This course is part of the ongoing effort to improve retention of students in engineering, especially women and underrepresented minorities. It is specifically designed to show the content in context so that students see the application of chemistry to engineering.

Course Objectives At the end of the course, students should be able to:

Demonstrate laboratory techniques

Follow and design experimental procedures

Record, graph, and interpret data

Apply chemical concepts to solve problems

Relate chemistry to real world problems. The biggest difference about this lab from the normal general chemistry is that the labs are centered around real world applications that are relevant to engineering. Each of the labs is targeted around one of the NAE Grand Challenges for Engineering and shows how chemistry techniques can be used to address those problems.

Course Textbook(s) and/or Other Assigned Reading None. The lab manual will be provided through Canvas.

Weekly Schedule of Topics Week 1: No lab during add/drop

Week 2: Check-in/Measurement Lab 1

Week 3: Aqueous Reactions Lab 1

Week 4: Aqueous Reactions Lab 2

Week 5: Aqueous Reactions Lab 3

Week 6: Thermochemistry Lab 1

Week 7: Thermochemistry Lab 2

Week 8: Thermochemistry Lab 3

Week 9: Properties of Phases Lab 1

Week 10: Properties of Phases Lab 2

Week 11: Properties of Phases Lab 3

Week 12: Make-up Days

Week 13: Practical/Check-out

Links and Policies Honor Code: <https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>

Disabilities Accommodations: <http://www.dso.ufl.edu/drc/>

U Matter, We Care: umatter@ufl.edu

Evaluations: <https://evaluations.ufl.edu>

Attendance Policy:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Grading Policy: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

General Education Requirements

Grading Scheme Pre-Lab Quizzes 20%

Post-Lab Quizzes 20%

Lab Assignments 40%

Lab Practical 20%

Grades:

90%-100% A, 87%-89% A-, 84%-86% B+, 80%-83% B, 77%-79% B-, 74%-76% C+, 70%-73% C, 67%-69% C-, 64%-66% D+, 60%-63% D, 0%-59% E

Instructor(s) Maria Korolev