COURSE TITLE: Organic Chemistry I Lab  
COURSE NUMBER: CHM 2211 L

COURSE DESCRIPTION (with prerequisites):
An organic laboratory to be taken concurrently with CHM 2211. Three hours laboratory per week. 1 semester hour credit.

NAME(S) OF INSTRUCTORS:
Dr. Penelope Cipriani

EFFECTIVE ACADEMIC YEAR:
2018-2019

REQUIRED TEXTBOOKS AND INSTRUCTIONAL MATERIALS:
Handouts/worksheets available in lab.

GRADING POLICY:
The standing of a student in each course is expressed by one of the following letters and corresponding grading system:
A – 90 – 100
B – 80 – 89
C – 70 – 79
D – 60 – 69
F – 59 or less
The Chipola Catalog provides policies and procedures regarding the grading system. A student's Grade Point Average is derived from the grading system/quality point scale.

ATTENDANCE AND WITHDRAWAL POLICIES:
Chipola College expects regular attendance of all students, and all instructors record attendance daily. Students who are absent from classes for any reason other than official college activities must satisfy the instructor concerned that the absence was due to illness or other clearly unavoidable reasons. Otherwise, the student may suffer grade loss at the discretion of the instructor. Chipola policy allows each instructor to specify in the Instructor First Day Handout whether or not an absence is excusable and what affect the absence or tardy may have on the grade.

A student is allowed to repeat a course a maximum of three (3) times. On the third attempt a student (1) must bear the full cost of instruction (unless waived by Student Services), (2) cannot withdraw, and (3) must receive a grade.
MAKING-UP POLICY:
Chipola allows each instructor to specify in the Instructor First Day Handout the makeup policy.

ACADEMIC HONOR CODE POLICY:
Students are expected to uphold the Academic Honor Code. Chipola College’s Honor Code is based on the premise that each student has the responsibility to (1) uphold the highest standards of academic honesty in his/her own work; (2) refuse to tolerate academic dishonesty in the college community; and (3) foster a high sense of honor and social responsibility on the part of students. Further information regarding the Academic Honor Code may be found in the Chipola Catalog, Student Governance section.

STUDENTS WITH DISABILITIES POLICY:
Chipola College is committed to making all programs and facilities accessible to anyone with a disability. Chipola’s goal is for students to obtain maximum benefit from their educational experience and to effectively transition into the college environment. Students with disabilities are requested to voluntarily contact the Office of Students with Disabilities to complete the intake process and determine their eligibility for reasonable accommodations.

NOTICE OF EQUAL ACCESS/EQUAL OPPORTUNITY AND NONDISCRIMINATION:
Chipola College does not discriminate against any persons, employees, students, applicants or others affiliated with the college with regard to race, color, religion, ethnicity, national origin, age, veteran’s status, disability, gender, genetic information, marital status, pregnancy or any other protected class under applicable federal and state laws, in any college program, activity or employment.

Wendy Pippen, Associate Vice President of Human Resources, Equity Officer and Title IX Coordinator, 3094 Indian Circle, Marianna, FL 32446, Building A, Room 183C, 850-718-2269, pippenw@chipola.edu.

LIBRARY AND ON-LINE REFERENCE MATERIALS:
The library is a comprehensive learning resource center providing information in print, electronic, and multimedia format to support the educational objectives of the College. On-line catalogs, e-books and electronic databases can be accessed by using the LINCCWeb icon on the Chipola Library website at www.chipola.edu/library. If you have questions about database usage consult the “How to Use the Chipola Databases” on the Library website or call the Library at 850/718-2274 during regular hours. Library hours are posted each semester at the building entrance and on the Library website. See your Instructor First Day Handout for individual instructor recommendations and resources.

TECHNOLOGY RESOURCES:
The college’s learning management system is Canvas. Classes become available on Canvas on the first day of the semester. It is the student’s responsibility to log onto the Canvas system the first day of class to establish the first day of attendance and to
check announcements. All official class communication must be through Canvas. For further information, contact your instructor or the Director of eLearning. The Canvas support hotline is available online in live chat and on the phone, toll-free, at 855-308-2812 for any issues in accessing or utilizing Canvas. The **Technology Center**, located in the library, is equipped with computer workstations. Lab hours are posted each semester at the building entrance and on the Library website.

**FREE TUTORING RESOURCES:**
The **Academic Center for Excellence (ACE) Lab**, located in Building L, offers free tutoring from 8 a.m. to 5 p.m. and is equipped with computer workstations. ACE lab hours are posted each semester at the room entrance and on the website. Additionally, Chipola College has contracted **Smarthinking**, a Pearson Company, for online tutoring services, accessible especially from 5 p.m. to 8 a.m. and weekends. Smarthinking can be accessed through Canvas.

**ELECTRONIC DEVICE USAGE STATEMENT:**
Classrooms should be free of all unnecessary distractions from the task of learning. Therefore, as a general rule, students should silence and avoid use of all electronic devices (laptops, phones, tablets, etc.) not being used for coursework. Consult first-day handouts for any specific policies related to the use of electronic devices in the classroom, as they may vary depending upon the nature of the course or the guidelines of the instructor. Faculty reserve the right to regulate the use of electronic devices and their accessories in class.

**DISCIPLINE SPECIFIC COMPETENCIES / LEARNING OUTCOMES:**
**Explore the History, Nature, Methods, and Limits of Science**

NS-1  Use methods of scientific investigation.

NS-2  Apply scientific principles.

NS-3  Identify scientific ideas related to the history or nature of science and examine issues and problems facing modern science.

NS-4  Identify relationships between science and technology.
LINKING COURSE-LEVEL STUDENT LEARNING OUTCOMES WITH DISCIPLINE-SPECIFIC COMPETENCIES, ASSESSMENT METHODS, AND ARTIFACTS

<table>
<thead>
<tr>
<th>COURSE-LEVEL STUDENT LEARNING OUTCOMES FOR CHM 2211L</th>
<th>DISCIPLINE-SPECIFIC GENERAL EDUCATION COMPETENCIES</th>
<th>ASSESSMENT METHODS FOR COURSE LEVEL STUDENT LEARNING OUTCOMES</th>
<th>LEARNING ARTIFACTS FOR AA PROGRAM ASSESSMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Make use of the language and terminology of chemistry</td>
<td>NS-1</td>
<td>T, CF, H</td>
<td>None</td>
</tr>
<tr>
<td>• Demonstrate a working knowledge of the fundamental concepts in chemistry</td>
<td>NS-1, NS-2, NS-3, NS-4</td>
<td>T, CF, H, Exp.</td>
<td></td>
</tr>
<tr>
<td>• Differentiate between competing theories that explain chemical concepts such as the valence bond and molecular orbital theories of bonding</td>
<td>NS-2, NS-3</td>
<td>T, CF, H</td>
<td></td>
</tr>
<tr>
<td>• Solve problems relating to chemical concepts</td>
<td>NS-1, NS-2, NS-3, NS-4</td>
<td>T, CF, H, Exp.</td>
<td></td>
</tr>
<tr>
<td>• Interpret graphs or tables</td>
<td>NS-1, NS-2, NS-3, NS-4, M-4</td>
<td>T, CF, H, Exp.</td>
<td></td>
</tr>
<tr>
<td>• Identify how technology is used in chemical processes</td>
<td>NS-1, NS-3, NS-4</td>
<td>T, CF, H, Exp.</td>
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**Assessment Codes**

- T = Tests
- Pre/Post = Pre- and Post-Tests
- OT = Objective Tests
- UT = Unit Tests
- Q = Quizzes
- F = Final Examination
- CF = Cumulative Final
- EX = Departmental Exam
- SE = Nat'l or State Standardized Exam
- RPT = Report/Presentation
- SP = Skills Performance
- SD = Skills Demonstration
- W = Writing Assignments
- E = Essays
- DE = Documented Essays
- RP = Research papers
- J = Jury
- R = Rectal
- Proj. = Projects
- Exp. = Experiments
- Cap. Proj. = Capstone Project
- Cap. Course = Capstone Course
- Prac. = Practicum
- Intern. = Internship
- H = Homework
- PS = Problem Solving
- DB = Discussion Board
- BO = Behavioral Observation
- Clin. = Clinicals
- CS = Case Study
- CP = Case Plan
- Port. = Portfolio
- Obs. = Teacher Observation
- Sk. Check = Skills Check-off
- Curriculum Frameworks
- JP = Judged
- Performance/Exhibition

MEANS OF ACCOMPLISHING STUDENT LEARNING OUTCOMES:
Student-centered: The students will be responsible for solving homework problems, through lab experiences, and forming group study sessions outside of class/lab.

ACE Lab tutors: Student tutors are available in the lab to provide individualized help. Hours can be found posted each semester on the lab door and/or via the web site

ASSIGNMENT AND/OR COURSE OUTLINE
Throughout the semester, we will cover the following topics:

Introduction to Chemistry and the Scientific Method
Measurements and Calculations
Matter
Chemical Foundations: Elements, Atoms, Ions
Nomenclature
Chemical Reactions
Reactions in Aqueous Solutions
Chemical Composition
Chemical Quantities
Energy
Modern Atomic Theory
Chemical Bonding
Acids and Bases
Organic Chemistry
Biochemistry

See your Instructor First Day Handout for individual instructor assignment schedule.