

**Citrus College  
Course Syllabus**

**Chem. 104**

**Fall 2010**

**Prof. Badieh Farahani**

**Office: PS 206**

**Phone (626) 914-8729**

**Office Hours:**

**E-Mail:** [bfarahani@citruscollege.edu](mailto:bfarahani@citruscollege.edu)

**Website:** [www.citruscollege.edu/academics/courses/farahani](http://www.citruscollege.edu/academics/courses/farahani)

**Lecture text:** General, Organic, and Biological Chemistry: Structure of life; 3<sup>rd</sup> edition; Timberlake; 2010

**Laboratory Text:** CATALYST; CHEM 104 Laboratory Manual; Citrus College; 2009

**Required Material:** Safety Goggles by Wednesday 9/8

**Grading:** 90%<sup>+</sup> = A      80-89% = B      65-79% = C      50-64% = D

**Lecture:**

Homework	10%
Exam 1	12% (M. 9/20)
Exam 2	12% (M. 10/11)
Exam 3	12% (M. 11/1)
Exam 4	12% (M. 11/22)
Final Exam	12% (W. 12/15 – 5:00-7:00 pm)

**Laboratory:**

ACS Test	2%
Pre-Lab	5%
Lab Report	18%
Presentation	5%

**Lecture:**

**Homework:** Will be assigned each class period and is due by the end of the class period – 9:15 pm. In addition there will be an half an hour in-class assignments every Wednesday @ 5:00 pm. In-class assignments are open books (your own) & notes! No late homework is accepted!

**Exams:** Closed books & notes. A periodic table is provided to you!

**Laboratory:**

**ACS Test:** Need scantron. Test will be given @ 5:00 pm on Wednesday 12/8.

**Pre-Lab:** A write up of the experiment is due @ the start of the lab period. Pre-Labs must be typed. No late pre-lab is accepted!

**Format of the Pre-Lab:**

1. Name & Date
2. Title of the experiment
3. Goals
4. Experimental Procedure: A detailed description of the experiment in your own words. You must include equations for synthesis, and figures (anywhere in that chapter).

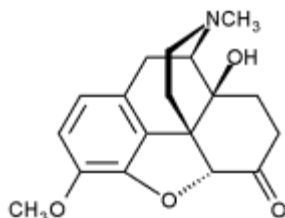
**Format of the Lab Report:**

Report Sheets including pre-lab study questions, data, calculations, and questions stapled! Experiments must be done individually to get credit! No lab report is accepted without performing the experiment. Following safety rules, organization in the lab, neatness, punctuality, ... is part of the grade for the lab report.

**Presentation:** A 5-page paper and 15-minute (power point) presentation on a brand name drug is required! This will be scheduled during the last five weeks of the semester.

**Important Information:**

1. Four lecture and/or two lab absences will result in drop from the class.
2. Various handouts, homework assignments, topics in the exams, course schedule change, ...are noted in the class. It is your responsibility to be aware of the events.
3. No late work is accepted!
4. No work is dropped!
5. Last day to drop with a "W" is Tuesday 10/23. Failing to show up after this date will result in a grade of "F" for the class!
6. All work submitted with your name on it is considered to be original (done by you only). Any deviation will be dealt with according to "Standards of the Student Conduct" in the Citrus College Catalog.



**Oxycodone**

## Tentative Course Schedule

Week	Chapter	Topic
1	11 <b>Laboratory (9/1)</b>	Introduction to Organic Chemistry; Alkanes <b>Safety Rules (p. 1), Check-in</b>
2	11 <b>Laboratory (9/8)</b>	Introduction to Organic Chemistry; Alkanes <b>Structure of Alkanes (p.15)</b>
3	12 <b>Laboratory (9/15)</b>	Alkanes; Alkynes, and Aromatic Compounds <b>Properties of Organic Compounds (p. 7)</b>
4	12 <b>Laboratory (9/22)</b>	Alkenes, Alkynes, and Aromatic Compounds <b>Reactions of Hydrocarbons (p. 27)</b>
5	13 <b>Laboratory (9/29)</b>	Alcohols, Phenols, Thiols, and Ethers <b>Alcohols and Phenols (p. 35)</b>
6	13 14 <b>Laboratory (10/6)</b>	Alcohols, Phenol, Thiols, and Ethers Aldehydes, Ketones, and Chiral Molecules <b>Aldehydes and Ketones (p. 43)</b>
7	14 16 <b>Laboratory (10/13)</b>	Aldehydes; Ketones, and Chiral Molecules Carboxylic Acids and Esters <b>Carboxylic Acids and Esters (p. 53)</b>
8	16 <b>Laboratory (10/20)</b>	Carboxylic Acids and Esters <b>Aspirin and other Analgesics (p. 61)</b>
9	18 <b>Laboratory (10/27)</b>	Amines and Amides <b>Amines and Amides (p. 73)</b>
10	18 <b>Laboratory (11/3)</b>	Amines and Amides <b>Synthesis of Acetaminophen (p. 81)</b>
11	15 <b>Laboratory (11/10)</b>	Carbohydrates <b>Tests for Carbohydrates (p. 87)</b>
12	17 <b>Laboratory (11/17)</b>	Lipids <b>Lipids (p. 97)</b>
13	19 <b>Laboratory (11/24)</b>	Amino Acids and Proteins <b>Amino Acids (p. 107)</b>

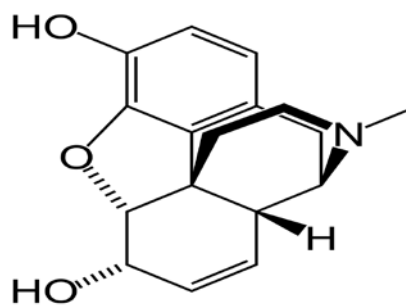
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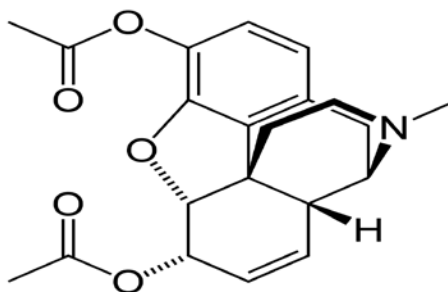
<b>14</b>	19 20 <b>Laboratory (12/1)</b>	Amino Acids and Proteins Enzymes and Vitamins <b>Enzymes (p. 119)</b>
<b>15</b>	20 <b>Laboratory (12/8)</b>	Enzymes and Vitamins <b>ACS Test, Check-out</b>
<b>16</b>	<b>Final Exam – Wednesday December 15 – 5:00-7:00 pm</b>	



**You Must Wear Goggles at all Times in the Lab!**



**Morphine**



**Heroin**