

Forensic Analysis of Controlled Substances

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Section	Times	Room	Course Number
0001 Lecture	We 8:30 AM – 10:20 AM Fr 8:30 AM – 9:20 AM	BA1 126	88514
0012 Lab	Fr 9:30 AM – 12:20 PM	CHEM 304	88515
0013 Lab	Fr 12:30 PM – 3:20 PM	CHEM 304	88516

Office Hours: CHM 325, Wednesday 11:00 am–12:30 pm, Thursday 9:30 am–11:00 am, or by appointment

Online Communication and Webcourses:

In this class our official mode of communication is through the Webcourses inbox. All communication should be respectful and professional; allow 24-48 hours for responses. Much of the information you will need for this course will be available through the Webcourses course management system. You are responsible for checking this site daily (available at my.ucf.edu then the "Online Course Tools" tab). Webcourses will also contain your course grades.

Enrollment Verification:

Faculty members are required to document students' academic activity at the beginning of each course. All students must complete two online quizzes (one for lecture and one for lab). The quizzes are available on Webcourses and both are due by noon on August 25, 2016. The quizzes will count toward the lecture and laboratory grades. Failure to complete the quizzes will result in a delay in the disbursement of financial aid.

Prerequisites:

A "C" grade or better in CHM 2211, CHS 3505C, CHM 3120 (or CHM 3120 concurrent enrollment). Completion of CHM 2211L is recommended.

Required Materials:

- A non-programmable, scientific calculator (graphing calculators are not permitted)
- New composition notebook, long lab coat, safety glasses/goggles
- Reading materials will be available online through Webcourses and the UCF Library.

Learning Goals:

Students in this course will demonstrate a functional understanding of the following topics related to drugs:

- Classification schemes, partitioning, equilibria, and acid-base chemistry
- Separation methods including TLC, GC, and extractions
- Instrumental techniques including UV-Vis and IR spectroscopy, mass spectrometry, and light microscopy
- Absorption, metabolism, and elimination of drugs in the body

Course Description:

CHS 3530C is a four-credit, one-semester course that studies the chemical properties and analysis drugs. The course relies heavily on teamwork and cooperation. If you are having difficulties with working in groups, please feel free to discuss this with the instructor or laboratory GTAs. In this course, your learning opportunities will primarily be active (you engage directly in learning), versus passive (taking notes and listening). A significant portion of the course content will be delivered through online lecture videos. These are watched outside of class time allowing for collaborative learning and problem solving during class time. Each class meeting is designed based on the assumption that assigned reading and lecture videos are completed before class.

Grading

Questions related to graded assignments must be addressed within two weeks of posting on Webcourses. After that period, the grade will stand as posted. Grades will be determined by four categories:

- **Lecture Quizzes and Assignments (10% of final grade)** A quiz related to the previous week's class and lab content and current week's assigned reading will be given each Wednesday beginning promptly at the start of class. Reading assignments and learning objectives can be found in the Webcourses Modules. All quizzes count, there will be no dropped quizzes.
- **Tests (30% of final grade)** There will be three tests; each test will be 100 points. Tests are designed to evaluate how well students grasp the entire course content (lecture and laboratory). Each test will include various types of questions (multiple choice, short answer, calculations). No outside materials are permitted on the tests except a non-programmable calculator. All tests count; there will not be dropped tests. See Webcourses for test dates.
- **Final Exam (25% of final grade)** Policies for this exam are the same as the tests. The cumulative final exam is Wednesday, December 7, 2016 from 7:00 – 9:50 AM and is mandatory; not taking the final exam will necessarily result in a failing grade in the class.
- **Laboratory (35% of final grade)** The laboratory will consist of various assignments (pre-labs, summary sheets, abstracts, posters, presentations, etc.). Requirements and due dates will be posted on Webcourses. Notebook will be assessed via periodic notebook checks (unannounced, during lab) and open notebook quizzes (announced, during lecture). Notebook guidelines are on Webcourses. Always bring your notebook to lab.

Grading System: The overall score determines the letter grade by the following scale:

Grade	Percentage	Grade	Percentage	Grade	Percentage
A	90.0 – 100%	B-	73.0 – 76.9%	D+	57.0 – 60.9%
A-	85.0 – 89.9%	C+	69.0 – 72.9%	D	53.0 – 56.9%
B+	81.0 – 84.9%	C	65.0 – 68.9%	D-	50.0 – 52.9%
B	77.0 – 80.9%	C-	61.0 – 64.9%	F	< 50.0%

No S/U grades will be assigned in this course. An incomplete grade will only be granted, when due to circumstances beyond the control of the student, a small portion of the required work remains undone and the student is otherwise passing the course. An "I" grade requires a contract signed by both the student and the instructor.

Course Policies

Professional Conduct and Electronic Devices: Students are required to maintain a high standard of professional conduct in all classroom and laboratory meetings. Classroom disruptions may result dismissal from the classroom. Electronic device (cell phones, tablets, laptops) may only be used during specified times to facilitate classroom and lab research. In the event that electronic devices needed regularly, students must provide written authorization from Student Accessibility Services.

Makeup Assignment, Tests, Exams, Late Work: If students are absent on the date an assignment is due, it is the students responsibility to submit the assignment by the original due date to avoid late penalties. Assignments may be turned in via email ONLY in the event of an absence. It is the student's responsibility to contact the instructor and/or GTA to discuss makeup assignments in the event of an absence. Late assignments will have a penalty of 25% per day. Extension for assignments will be handled on a case-by-case basis for excused absences.

Missed test or final exam due to an excused absence may be offered as a makeup pending instructor approval. It is the student's responsibility to contact the instructor within 5 days of the missed test and 2 days within the missed final exam to schedule a makeup time. Students who miss the final exam and do not contact the instructor will receive a failing grade, regardless of other scores earned in the course.

Excusable reasons ONLY include:

- personal illness (verifiable by a doctor's note)

- (b) death of an immediate family member (verifiable by an obituary or funeral program)
- (c) military duty (verifiable by documentation from your supervisor)
- (d) required engagements in university-sponsored activities (athletes and student organizations, verifiable by documentation from your athletic/academic/faculty advisor)
- (e) court-imposed legal obligations (verifiable by court documentation)
- (f) religious obligations (notified two weeks in advance)
- (g) severe weather conditions (as confirmed by university-wide statements and/or relevant media)

Note that transportation issues and employment schedules are not on the list of excusable reasons.

Religious observations: Students who anticipate being absent from class because of a major religious observance must provide notice (via email) at least two weeks in advance of the obligation. If such obligation interferes with a test/exam, the student will be allowed to take the test/exam a day or two early (or, in extreme cases, as a makeup).

Course Accessibility: Students in need of academic accommodation for a disability may consult with Students Accessibility Services (Ferrell Commons 185; 407-823-2371; sas@ucf.edu). Students are required to give reasonable notice to the instructor prior to requesting an accommodation (preferably during the first week of class but at least one week prior to the accommodation).

Academic Integrity: Many incidents of plagiarism result from students' lack of understanding about what constitutes plagiarism. However, you are expected to familiarize yourself with UCF's policy on plagiarism. All work you submit must be your own scholarly and creative efforts. UCF's Golden Rule defines plagiarism as follows: "**whereby another's work is used or appropriated without any indication of the source, thereby attempting to convey the impression that such work is the student's own.**" Instances of academic dishonesty will be handled on a case-by-case basis and may result in a zero for an assignment/test/exam or removal from the course.

Turnitin: In this course we will utilize turnitin.com, an automated system that instructors can use to quickly and easily compare student assignment with web sites, as well as a database of student papers that grows with each submission. You may be expected to submit assignments in both hard copy and electronic format. After the assignment is processed, the instructor receives a report from turnitin.com that states if and how another author's work was used in the assignment. For a more information, visit <http://www.turnitin.com>.

Copyright: This course may contain copyright protected materials such as audio or video clips, images, text materials, etc. These items are being used with regard to the Fair Use doctrine in order to enhance the learning environment. Please do not copy, duplicate, download or distribute these items. The use of these materials is strictly reserved for your use only. All copyright materials are credited to the copyright holder.

Modification of the Course Syllabus: The instructor reserves the right to modify the course syllabus at any time during the course to address changes needed in content, resources, assignments, due dates, etc. Changes will be made so as not to impact student grades negatively. Students will be notified of any changes to the course syllabus by a Webcourses announcement and through the Webcourses inbox.

Other Helpful Information

UCF Cares: During your UCF career, you may experience challenges including struggles with academics, finances, or your personal well-being. UCF has a multitude of resources available to all students. Please visit UCFCares.com if you are seeking resources and support, or if you are worried about a friend or classmate. Free services and information are included for a variety of student concerns, including but not limited to alcohol use, bias incidents, mental health concerns, and financial challenges. You can also e-mail ucfcares@ucf.edu with questions or for additional assistance. You can reach a UCF Cares staff member between 8 a.m. and 5 p.m. by calling 407-823-5607. If you are in immediate distress, please call Counseling and Psychological Services to speak directly with a counselor 24/7 at 407-823-2811, or call 911.