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Elementary Organic & Biological Chemistry, BCH3023

Instructor Contact Info

Dr. Kimberly Moore
3205 College Ave. Davie FL 33314
954-577-6328
954-475-4125 (fax)
Email: klock@ufl.edu;

Office hours: Thursday 2-3 pm (**Please email me if you need to meet**)

Join Zoom Meeting

<https://ufl.zoom.us/j/4945104654>

Email/phone messages: students can expect a response within 24 hrs. M-F and within 72 hrs. on weekends. **My preferred way of communicating with students is using email.** I check my UF email frequently every day and on the weekends. If I plan to be out of the office or out of email communication, I will email the class and post an announcement on the class website.

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Catalog description

Elementary organic and biochemistry for students in agricultural technical curricula. This is a terminal courser and not part of any sequence.

Course Overview

This course is intended for students who have taken and understand the principles of general chemistry. This is a terminal course and not part of any sequence of courses in the Department of Chemistry. This course is designed to introduce elementary organic chemistry and biochemistry to students in the agricultural curricula.

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Text

K.J. Denniston, J.J. Topping, and R.L. Caret. 2007. General, Organic, and Biochemistry, 6th edition. McGraw Hill Co.

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Course Prerequisites

CHM 2046 or CHM 2047

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Acceptable Course Participation

This is an online course with weekly readings, lectures, and assignments. The week begins on Monday and ends on Sunday. Students are expected to login to the course website at least

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once a week (see [schedule](#)) to complete the reading assignments and watch the narrated lectures and complete the assignments (see [course goals and assignments](#) & [assessment](#)).

All course materials will be available via the Canvas course website.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies. [Click here to read the university attendance policies](#).

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens and can complete evaluations through the email, they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

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Course Goals and Assignments

The objective of this course is to provide sufficient background in organic and biological chemistry to make subsequent courses in plant, animal, or environmental science more meaningful. Upon successful completion of this course, students will be able to identify and describe relevant organic and biochemical compounds and relevant organic and biochemical reactions.

Each week, students will be responsible for completing the reading assignment, watching the narrated presentation, completing a discussion post, and completing a quiz or assignment (see [late assignment policy](#)).

Discussion posts: Discussion posts must be completed by **Wednesday** at 5 pm ET. Discussion posts should be well written and address the issue or question being discussed. All posts should be made within in the week assigned. Discussions will be graded on the quality and timeliness of the response (see discussion grading rubric below). Each student is expected to comment on **three classmates' posts**. Discussion posts will be accepted up to four days after the due date but will be marked down 2 points. They are worth 10 points.

| Points | |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 10 | Addressed and responded to the original question and increased understanding of the topic; responding to 3 posts; advanced the conversation |

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| | |
|---|-----------------------------------------------------------------------------------------------------------------------|
| 9 | Addressed and responded to the original question and increased understanding but only commented on 2 additional posts |
| 8 | Addressed and responded to the original question and increased understanding but only responded to 1 post |
| 7 | Addressed question BUT DID NOT respond to any additional posts |

Quiz: Each quiz will cover the material discussed that week in the reading assignment and in the lecture. They are worth 25 points.

Critical Thinking Assignment: Each assignment will ask the student to apply what was covered in the reading assignment and lecture to solve a problem. They are worth 25 points.

You answer will be graded on the following criteria. You are welcome to work with your classmates on this assignment BUT each student must submit their own -original answer. No cut and paste and no plagiarism.

| Criteria | |
|---------------------------------|----------------------------------------------------------------------------------------|
| Quality of presentation (5 pts) | Student took time to correct for spelling, punctuation, and proper citation of sources |
| Answer the question (10 pts) | Student answered the question(s) and used multiple sources to support their answer |
| Connection to module (10 pts) | Student connected the question(s) and answers to the topics covered in the module |

Grades for all assignments will be posted seven days after the student turns them in. If the instructor cannot return the assignment within this time frame, the instructor will notify the student as to when the assignment will be graded. [[Top](#)]

Assessment

See [schedule](#) for dates. The week begins on Monday and ends on Sunday. All discussions (due Wednesday), quizzes, or assignments (due Sunday) need to be completed by the end of each week.

The accepted format for all assignments is MS Word files. If there is a malfunction with the class site or computer malfunctions occur, assignments may be emailed or sent via fax. It is the

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obligation of the student to inform me of such malfunctions immediately. For resolving technical issues, please visit the helpdesk website (<https://helpdesk.ufl.edu/>) or call 352-392-4357.

All grades are based on the number of points earned out of total number of point* 100 to calculate a percentage.

TOTAL POSSIBLE POINTS & GRADES = 440 points

Points earned/440 pts*100 to calculate a percent

Information on current UF grading policies for assigning grade points. This may be achieved by including a [link to the university grades and grading policies](#).

| | |
|----|-----------|
| A | (95-100%) |
| A- | (90-94%) |
| B+ | (88-89%) |
| B | (85-87%) |
| B- | (80-84%) |
| C+ | (78-79%) |
| C | (75-77%) |
| C- | (70-74%) |
| D+ | (68-69%) |
| D | (65-67%) |
| D- | (60-64%) |
| E | (0-59%) |

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Absences and Make-Up Work

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies. [Click here to read the university attendance policies](#)

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Academic Honesty

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Conduct Code

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specifies several behaviors that are in violation of this code and the possible sanctions. [Click here to read the Conduct Code](#). If you have any questions or concerns, please consult with the instructor in this class.

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g., assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://sccr.dso.ufl.edu/process/studnet-conduct-code/>.

In-Class Recording (This is an online course with pre-recorded lectures. However, here is the UF policy on recording class lectures)

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third-party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student

Software Use

All faculty, staff and students at the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Campus Resources

Health and Wellness

- *U Matter, We Care*: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit [U Matter, We Care website](#) to refer or report a concern and a team member will reach out to the student in distress.
 - *Counseling and Wellness Center*: [Visit the Counseling and Wellness Center website](#) or call 352-392-1575 for information on crisis services as well as non-crisis services.
 - *Student Health Care Center*: Call 352-392-1161 for 24/7 information to help you find the care you need or [visit the Student Health Care Center website](#).
 - *University Police Department*: [Visit UF Police Department website](#) or call 352-392-1111 (or 9-1-1 for emergencies).
 - *UF Health Shands Emergency Room / Trauma Center*: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; [Visit the UF Health Emergency Room and Trauma Center website](#).
- Academic Resources

Academic Resources

- *E-learning technical support*: Contact the [UF Computing Help Desk](#) at 352-392-4357 or via e-mail at helpdesk@ufl.edu.
- *Career Connections Center*: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.
- *Library Support*: Various ways to receive assistance with respect to using the libraries or finding resources.
- *Teaching Center*: Broward Hall, 352-392-2010 or to make an appointment 352- 392- 6420. General study skills and tutoring.
- *Writing Studio*: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.
- *Student Complaints On-Campus*: [Visit the Student Honor Code and Student Conduct Code webpage for more information](#).
- *On-Line Students Complaints*: [View the Distance Learning Student Complaint](#)

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Services for Students with Disabilities

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center. [Click here to get started with the Disability Resource Center](#). It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester [\[Top\]](#)

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Schedule

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| Week of | Topic and Assignments | Due Date – 5 pm Eastern Time |
|---------------|------------------------------------------------|---------------------------------|
| Aug 23 | Introduction | |
| | Self-Introduction (10 pts) | Aug 29 |
| Aug 30 | General Chemistry Review | |
| | Discussion on Acid Rain (10 pts) | Sep 1 |
| | Quiz 1 (25 pts) | Sep 5 |
| Sep 6 | Saturated Hydrocarbons | |
| | Discussion on CFC (10 pts) | Sep 8 |
| | Quiz 2 (25 pts) | Sep 12 |
| Sep 13 | Unsaturated Hydrocarbons | |
| | Discussion Chemical Sensitivities (10 pts) | Sep 15 |
| | Critical Thinking 1 (25 pts) | Sep 19 |
| Sep 20 | Alcohols, Phenols, Thiols & Ethers | |
| | Discussion Bad Chemistry, Bad Justice (10 pts) | Sep 22 |
| | Quiz 3 (25 pts) | Sep 26 |
| Sep 27 | Aldehydes and Ketones | |
| | Discussion Find an example (10 pts) | Sep 29 |
| | Quiz 4 (25 pts) | Oct 3 |
| Oct 4 | Carboxylic Acids | |
| | Discussion I need an aspirin (10 pts) | Oct 6 |
| | Critical Thinking 2 (25 pts) | Oct 10 |

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| Week of | Topic and Assignments | Due Date – 5 pm Eastern Time |
|----------------------|----------------------------------------|-----------------------------------------|
| <i>Oct 11</i> | <i>Carbohydrates</i> | |
| | Discussion Mirrors (10 pts) | Oct 13 |
| | Quiz 5 (25 pts) | Oct 17 |
| <i>Oct 18</i> | <i>Lipids</i> | |
| | Discussion Wax Fruit (10 pts) | Oct 20 |
| | Quiz 6 (25 pts) | Oct 24 |
| <i>Oct 25</i> | <i>Amines and Amides</i> | |
| | Discussion Health Food Stores (10 pts) | Oct 27 |
| | Critical Thinking 3 (25 pts) | Oct 31 |
| <i>Nov 1</i> | <i>Proteins</i> | |
| | Discussion Turkey (10 pts) | Nov 3 |
| | Quiz 7 (25 pts) | Nov 7 |
| <i>Nov 8</i> | <i>Enzymes</i> | |
| | Discussion Say Cheese (10 pts) | Nov 10 |
| | Quiz 8 (25 pts) | Nov 14 |
| <i>Nov 15</i> | <i>DNA/RNA</i> | |
| | Discussion DNA Code (10 pts) | Nov 17 |
| | Critical Thinking 4 (25 pts) | Nov 21 |
| <i>Nov 22</i> | <i>Thanksgiving – No Class</i> | |
| <i>Nov 29</i> | <i>Reflection – 10 pts</i> | Dec 1 |
| <i>Dec 6</i> | <i>Catch up</i> | |

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| Week of | Topic and Assignments | Due Date – 5 pm Eastern Time |
|---------|------------------------------------------|-------------------------------------|
| | Turn in any missing assignment via email | Dec 8 |