



Elementary Organic and Biological Chemistry, BCH3023

Spring 2026

Online Asynchronous, 3 credits

Instructor

Dr. Kimberly Moore
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Office hours:

Book time to meet with me

Join Zoom Meeting
<https://ufl.zoom.us/j/4945104654>

Course Description

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

Course Overview and Purpose

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.

Course Prerequisites

CHM 2046 or CHM 2047. Pre-requisite knowledge will be reviewed in week 2 of the course.

Course Learning Objectives

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:

1. Define general chemistry terms related to organic and biochemical compounds and reactions
2. Identify and describe relevant organic and biochemical compounds
3. Identify and describe relevant organic and biochemical reactions
4. Assess the importance of organic and biochemical compounds in plants, animals, and the environment
5. Appraise practical and real-world examples of organic and biochemistry in daily life

Textbooks, Learning Materials, and Supply Fees

OPTIONAL - K.J. Denniston, J.J. Topping, and R.L. Caret. 2007. General, Organic, and Biochemistry, 7th edition. McGraw Hill Co. (online edition from McGraw Hill ISBN10:1260923029)

Instructor's Interaction Plan

- Expect an instructor response to email and Canvas message within 24 hours, during weekdays and within 72 hours on weekend.
- Please do not wait until the weekend to complete assignments, as I may not be available to answer emails or messages as quickly.
- Expect instructor feedback for submitted assignments within one week past the assignment deadline.
- If you ever have questions or need clarification on instructor feedback, please message or schedule a meeting using Book time to meet with me.
- I will email the class at the beginning of the week to outline the topic for the week and remind you what is due that week.
- I will monitor and read the discussions. I may post to the entire class, within groups, or message you individually concerning the discussion to give you feedback.
- I invite your feedback in both midterm and end-of-term GatorEvals and plan to continuously improve student experience within the course. Your opinion is highly valued.

Required Technology & How to Obtain Technology

- Links to all downloadable resources are provided. These resources include software and online tools, apps, plug-ins such as PDF Reader, media players, collaboration tools, social media, interactive multimedia apps, etc.
- Instructions are provided for how to access materials available through the institution's library or subscription services, including online journals or databases. When available, links are also provided.

Digital Information Literacy Skills

- Using online libraries and databases to locate and gather appropriate information
- Using computer networks to locate and store files or data
- Using online search tools for specific academic purposes
- Analyzing digital information for credibility, currency, and bias
- Properly citing information sources
- Preparing a presentation or written report of research findings

Technical Skills

- Using the learning management system (Canvas)
- Using email with attachments
- Creating and submitting files in commonly used word processing program formats

- Using spreadsheet programs
- Using presentation and graphics programs
- Using web conferencing tools and software

Communication Guidelines

- Use **Course Question Discussion Board**, for general course questions that others may have too.
- Use **Canvas Inbox (messaging tool)** for questions that are specific to your grades or submissions.
- **Email & phone correspondence** are for (1) setting a meeting time for office hours, (2) DRC accommodations; (3) emergency situations; or (4) highly sensitive situations.
- A respectful tone is used by all community members in all forms of communication.
- Written communication, both formal and informal, uses the official language of instruction rather than popular online abbreviations and graphic elements such as those sometimes used in social media.
- Video interactions reflect a respectful tone in verbal communications and body language.
- Spelling, punctuation, and grammar are correct.

Class Demeanor/Expectations

This is an online course with weekly lectures and assignments. The week begins on Monday and ends on Sunday. Students are expected to login to the course website at least once a week to watch the narrated lecture and complete the assignments. Each week also offers OPTIONAL MATERIALS created to help students understand the topic of the week.

Technical Support

UF Computing Help Desk & Ticket Number: All technical issues require a UF Helpdesk Ticket Number. The UF Helpdesk is available 24 hours a day, 7 days a week. <https://helpdesk.ufl.edu/> | 352-392-4357

Weekly Course Schedule

Week of	Topic and Assignments	Due Date – 5 pm Eastern Time
Module 1		
Jan 12	Introduction	
	Self-Introduction (10 pts)	Jan 18
Jan 19	General Chemistry Review	
	Discussion on Acid Rain (10 pts)	Jan 21
	Quiz 1 (25 pts)	Jan 25
Jan 26	Saturated Hydrocarbons	
	Discussion on CFC (10 pts)	Jan 28
	Quiz 2 (25 pts)	Feb 1

Week of	Topic and Assignments	Due Date – 5 pm Eastern Time
Feb 2	Unsaturated Hydrocarbons	
	Discussion Chemical Sensitivities (10 pts)	Feb 4
	Critical Thinking 1 (25 pts)	Feb 8
Module 2		
Feb 9	Alcohol, Phenols, Thiols & Ethers	
	Discussion De Brox (10 pts)	Feb 11
	Quiz 3 (25 pts)	Feb 15
Feb 16	Aldehydes and Ketones	
	Discussion Find an example (10 pts)	Feb 18
	Quiz 4 (25 pts)	Feb 22
Feb 23	Carboxylic Acids	
	Discussion I need an aspirin (10 pts)	Feb 25
	Critical Thinking 2 (25 pts)	Mar 1
Module 3		
Mar 2	Carbohydrates	
	Discussion Mirrors (10 pts)	Mar 4
	Quiz 5 (25 pts)	Mar 8
Mar 9	Lipids	
	Discussion Wax Fruit (10 pts)	Mar 11
	Quiz 6 (25 pts)	Mar 15
Mar 16	<u>Spring Break</u>	
Mar 23	Amines and Amides	
	Discussion Health Food Stores (10 pts)	Mar 25
	Critical Thinking 3 (25 pts)	Mar 29
Module 3		
Mar 30	Proteins	
	Discussion Turkey (10 pts)	Apr 1
	Quiz 7 (25 pts)	Apr 5
Apr 6	Enzymes	
	Discussion Say Cheese (10 pts)	Apr 8
	Quiz 8 (25 pts)	Apr 12
Apr 13	DNA/RNA	
	Discussion DNA Code (10 pts)	Apr 15
	Critical Thinking 4 (25 pts)	Apr 19

Week of	Topic and Assignments	Due Date – 5 pm Eastern Time
<u>Apr 20</u>	<u>Reflection – 10 pts</u>	
	<u>Turn in any missing assignment via email</u>	Apr 22
<u>Apr 27</u>	<u>Finals Week</u>	

Grading Policy

LIFE HAPPENS - There is a 4-day grace period for all discussion posts and assignments. The discussion and assignment will be locked 4 days after the due date. HOWEVER, I will accept discussions and assignments in the last week of class for HALF the points.

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 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 **two 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.

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

Critical Thinking Assignment: Each assignment will ask the student to apply what was covered in the preceding lectures (the lectures in that module) to solve a problem. The critical thinking comes at the end of each module. They are worth 25 points.

Course Grading Structure

Assignment Type	Point Value	Points	Percent of Final Grade
Discussions (14)	10	140	32%
Quizzes (8)	25	200	45%
Critical Thinking (4)	25	100	23%
		440	

Grading Scale

See the current [UF grading policies](#) for more information.

Grade	Points- ORH4256	Percentage
A	414-440	95-100
A-	392-413	90-94
B+	383-391	88-89
B	370-382	85-87
B-	348-369	80-84
C+	339-347	78-79
C	326-338	75-77
C-	304-325	70-74
D+	295-303	68-69
D	282-294	65-67
D-	260-281	60-64
S	0-259	0-59

Attendance & Make-up Work

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies. [UF Attendance Policies](#)

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Academic Policies and Resources

Academic policies for this course are consistent with university policies. See <https://syllabus.ufl.edu/syllabus-policy/uf-syllabus-policy-links/>

Campus Health and Wellness Resources

Visit <https://one.ufl.edu/whole-gator/topics> for resources that are designed to help you thrive physically, mentally, and emotionally at UF.

Please contact [UMatterWeCare](#) for additional and immediate support.

Artificial Intelligence Policy

Purpose: The aim of this policy is to ensure the responsible and ethical use of generative AI tools. The use of such technology should enhance learning and creativity while maintaining academic integrity.

Acceptable Use: Students are encouraged to use generative AI tools for the following purposes:

- Generating ideas and brainstorming for assignments and projects.
- Improving their writing through AI-assisted feedback and suggestions.
- Properly citing information in assignments using APA style.

Unacceptable Use: Students must not use generative AI tools for the following purposes:

- Completing quizzes, exams, or any other assessments meant to test individual understanding and knowledge.
- Submitting AI-generated content as their own work without proper attribution.

Academic Integrity:

- Any use of AI-generated content must be clearly attributed. This includes wording, ideas, or structures derived from AI tools.
- Proper APA citations must be used to reference all AI-assisted contributions in assignments.
- Failure to disclose the use of AI can be considered a form of academic dishonesty and result in disciplinary action.

Student Privacy Disclaimer

For online course with recorded materials a statement informing students of privacy related issues such as:

Our class sessions may be audio-visually recorded for students in the class to refer to and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.]

Course Evaluation Process

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online. Students can complete evaluations in three ways:

1. The email they receive from GatorEvals,
2. Their Canvas course menu under GatorEvals, or
3. The central portal at <https://my-ufl.bluera.com>

Guidance on how to provide constructive feedback is available at <https://gatorevals.ua.ufl.edu/students/>. Students will be notified when the evaluation period opens. Summaries of course evaluation results are available to students at <https://gatorevals.ua.ufl.edu/public-results/>.

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.

Student Complaints:

- Residential Course: <https://www.sfa.ufl.edu/written-student-complaints/>
- Online Course: <https://pfs.tnt.aa.ufl.edu/state-authorization-status/#student-complaint>

Privacy and Accessibility Policies

For information about the privacy policies of the tools used in this course, see the links below:

- Adobe
 - [Adobe Privacy Policy](#)
 - [Adobe Accessibility](#)
- Instructure (Canvas)
 - [Instructure Privacy Policy](#)
 - [Instructure Accessibility](#)
- Educreations
 - [Educreations Privacy](#)
 - [Educreations Accessibility](#)
- Microsoft
 - [Microsoft Privacy Policy](#)
 - [Microsoft Accessibility](#)
- Perusall
 - [Perusall Accessibility](#)
 - [Perusall Privacy](#)
- Sonic Foundry (Mediasite Streaming Video Player)
 - [Sonic Foundry Privacy Policy](#)
 - [Mediasite Accessibility \(PDF\)](#)
- TechSmith
 - [TechSmith Privacy Policy](#)
 - [TechSmith Accessibility](#)
- VoiceThread
 - [VoiceThread Privacy Policy](#)
 - [VoiceThread Accessibility](#)
- YouTube (Google)
 - [YouTube \(Google\) Privacy Policy](#)
 - [YouTube \(Google\) Accessibility](#)
- Zoom
 - [Zoom Privacy Policy](#)
 - [Zoom Accessibility](#)