



**Syllabus:** Introductory Organic and Biochemistry

**Course Number:** CHEM 1419

**Semester & Year:** Spring 2015

**Instructor Information**

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**Textbook Information**

Introduction to General, Organic, and Biochemistry 7<sup>th</sup> Edition. Frederick A. Bettelheim, William Brown, and Jerry March. United States: Tomson Brooks Cole, 2004. ISBN: 0-534-40176-7

This book is not available in the TC bookstore (I'm using an older edition in an effort to save you some \$\$)

However, you can get it two different ways

- It's available online to download for **free** at: [http://downloads.obsidian-inc.com/Books/Introduction%20to%20Organic%20and%20Biochemistry%20\(7th%20Edition\).pdf](http://downloads.obsidian-inc.com/Books/Introduction%20to%20Organic%20and%20Biochemistry%20(7th%20Edition).pdf)
- You can order it from Amazon at [http://www.amazon.com/Introduction-General-Organic-Biochemistry-InfoTrac/dp/0534401767/ref=sr\\_1\\_1?s=books&ie=UTF8&qid=1421177545&sr=1-1](http://www.amazon.com/Introduction-General-Organic-Biochemistry-InfoTrac/dp/0534401767/ref=sr_1_1?s=books&ie=UTF8&qid=1421177545&sr=1-1) for from \$0.74 to \$10.

**Student Learning Outcomes for the Course**

1. Compare and contrast the natures and bonding characteristics of organic and inorganic molecules.
2. Draw structural representations of organic molecules and describe shapes.
3. Name, describe physical and chemical properties; and discuss uses of alkanes and alkenes.
4. Name; describe physical and chemical properties; and discuss uses of alkenes, alkynes, and aromatics.
5. Name; describe physical and chemical properties; and discuss uses of alcohols, phenols, esters, and thiols.
6. Name; describe physical and chemical properties; and discuss uses of aldehydes and ketones.
7. Name; describe physical and chemical properties; and discuss uses of esters and salts.
8. Name; describe physical and chemical properties; and discuss uses of amines and amides.
9. Describe the nature, structure, physical properties, and chemical properties of carbohydrates.

10. Describe the nature, structure, physical properties, and chemical properties of lipids.
11. Describe the nature, structure, physical properties, and chemical properties of protein and enzymes.
12. Illustrate and explain the major anabolic and catabolic pathways for carbohydrate, lipid, and protein metabolism.

### **Student Requirements for Completion of the Course and Due Dates**

**Instructional Method:** This course has a flipped format, formally meeting only 3hrs/week instead of 6. **The student will be responsible each week for viewing and completing the relevant material posted on the course Moodle page.** Be aware that this is replacing 3 hours/week of lecture so will require a similar amount of time on your own to complete each week. On Mondays from 12:30 to 3:30, the class will meet to discuss questions over the Moodle material, work problems, and do a lab activity related to the weekly topic. To access our course page, go to <http://www.texarkanacollege.edu>, click on “myTC” in the left margin, go to TConline LMS, and log in. You should see our course from the list of courses you are taking this semester. We will be using the gradebook in the Jenzabar operating system. To access our gradebook go to to <http://www.texarkanacollege.edu>, click on “myTC” and you should see a link to Jenzabar attendance.

**Course:** The course will cover chapters 10-22 in the textbook. In all, 6 tests will be given. These tests will be available for one week in the TC Testing Center. As a general policy, I do not give make-up exams. If you anticipate missing a test, or if something urgent comes up, you must contact me as soon as possible. Exams are returned the following Monday class period. If you have not made arrangements with me before the next class period following the exam, your exam grade will be a zero.

**Test 1**—chapters 10 and 11.

**Test 2**—chapters 12 and 13.

**Test 3**—chapter 14 and 15.

**Test 4**—chapters 16, 17, and 18.

**Test 5**—chapters 19, 20, 21, and 22.

**Test 6**---final exam.

In addition projects, presentations, papers, and other assignments will be made periodically. In addition homework assignments will be made weekly. Class participation will also be considered in determining your final grade. Be aware that I am able to access a complete log of your time spent on our website with a detailed analysis of what you look at and how long you look at it. I will be reviewing your activity log each week to determine your level of class participation.

### **Student Assessment**

**You can check your average at any time by going to**  
<http://www.texarkanacollege.edu>, click on “myTC” and you should see a link to  
 Jenzabar attendance.

Your course grade can be calculated as follows:

5 exam grades

1 comprehensive final exam grade

1 class participation average

1 homework average

1 lab average

Total grades = 9.

### Grading Scale

Grade	
A	90-100
B	80-89
C	70-79
D	60-69
F	59-below

### Class Schedule

Week	Date	Material to be covered	Lab Activity
1	Jan 20	Chapter 10	None—MLK holiday
2	Jan 26	Chapters 11	Exploring Functional Groups
3	Feb 2	Test #1, start Chapter 12	Fermentation/Safety/Work Groups
4	Feb 9	Chapter 12	Lycopene from Tomato Paste
5	Feb 16	Chapter 13	Racking Wine/Alkene Worksheet
6	Feb 23	Test #2, Start Chapter 14	Work Groups
7	Mar 2	Chapters 14, 15	Distillation
8	Mar 9	Spring Break	none
9	Mar 16	Test #3, Start Chapter 16	Work groups
10	Mar 23	Chapter 17	Alcohol Content of Consumer Products
11	Mar 30	Chapter 18	Extraction of Orange Oil
12	Apr 6	Test #4 Start Chapter 19	Work Groups
13	Apr 13	Chapter 20	Aspirin Synthesis
14	Apr 20	Chapters 21	Extraction of Caffeine from Beverages
15	Apr 27	Chapter 22	Extraction of Fat from Fries
16	May 4	Test #5	Work Groups
17	May 11	Final Exam: TBA	None

## Attendance Policy

Role will be taken each week in the lab section and also by participation in online activities. You must log on to our site at least 2 times per week to be considered present. If you are counted absent 4 times online or for 2 lab activities you may be dropped from the class. If a student stops attending class, the date of the last attendance will be submitted to the Registrar, and a grade of "F" will be recorded. As a result the student may lose scholarships or grants or have to repay funds already rewarded. Below please find the official Texarkana College Absentee Policy:

### ABSENTEE POLICY

Texarkana College's absentee policy allows instructors to withdraw a student from a course due to excessive absences. If a student leaves and returns during class or leaves the class before the class is over, he/she **may** be considered absent. Three tardies constitute one absence. It is the student's responsibility to check the syllabus for each instructor's tardy policy.

In some workforce/vocational areas, such as nursing and cosmetology, certification requirements necessitate an absentee policy that is more stringent than the institutional policy. In these instances, the matter of certification takes precedence over local policies, since certification policies are established by the State of Texas.

Faculty members **are not** obligated to provide opportunities for students to make-up missed assignments and tests as a result of a student's absence from class. The institution is not required to take attendance with the exception of workforce/vocational areas, where certification requirements require taking attendance. However, experience demonstrates that regular attendance enhances academic success. As such, students are expected to attend each meeting of their registered courses.

A student should not stop attending a class without formally withdrawing from the course by the institutions published Last Day for Students to Drop. If a student stops attending class after the published Last Day for Students to Drop, the student **may** receive a grade of "F" in the class. The instructor will submit the last date of attendance for students receiving a grade of "F" or "W".

Withdrawal from a course(s) **may** affect a student's current or future financial aid eligibility. Students should consult the Financial Aid Office to learn both short and long term consequences of a withdrawal.

### EXCUSED ABSENCES

A student's absence due to school trips and/or school business will not be counted against a student's allowable number of absences. Military duty and absences for Holy Days (FBD LEGAL) are covered in a separate section of the catalog and the student handbook. These are the only excused absences that are considered by Texarkana College.

Responsibility for work missed for any absence is placed on the student. Instructors are required to allow students to make up work missed if the absence is due to military duty\* or religious holy days when students follow the correct notification procedures.

Instructors are not required to allow students to make up work for absences due to other reasons. Make-up policies are listed in each individual instructor's syllabus.

*\*Students interested in Health Occupations should check with the division chair prior to entering the program.*

### ONLINE/HYBRID COURSE ABSENCES

Absence in an **online course** is defined as the lack of an active post or submission within the course including discussion board posts, written assignments, and tests. This standard will be used to determine all absentee issues, including but not limited to, 12<sup>th</sup> Day Census Reports, last date of attendance, and involuntary withdrawal from a course due to absences. All online students must complete an Enrollment Verification activity within the first week of class (activity depends upon the professor); otherwise the professor **may** drop the student for not having attended. Students must complete at least one activity in their online class per week. Each week in which a student does not complete an activity will be counted as an absence.

If a student is taking a hybrid course, and it does not meet during the first week of class, the student must also complete an Enrollment Verification activity within the first week of class; otherwise the student **may** be dropped for not having attended.

### MAXIMUM ALLOWABLE ABSENCES

After official registration, the following number of unexcused absences will be the maximum allowable before a student **may** be dropped from the class. Mandated program certification requirements detailed for certain programs regarding the maximum allowable unexcused absences takes precedence over the following information.

#### Academic Classes

A COURSE THAT MEETS FOR THE FULL 16 WEEK SEMESTER	
Class or Lab Meets:	An instructor <b>may</b> withdraw a student from a course if absences exceed:
Once a week (Night classes or Friday classes)	2
Twice a week (MW or TR classes)	4
Three times a week (MWF or TRF classes)	6
Four times a week (MTWR classes)	8
	Three tardies count as one absence
A COURSE THAT MEETS FOR 14 WEEKS OF THE SEMESTER	
Class or Lab Meets:	An instructor <b>may</b> withdraw a student from a course if absences exceed:
Twice a week (MW or TR classes)	4
	Three tardies count as one absence.
A COURSE THAT MEETS FOR 8 WEEKS OF THE SEMESTER (Fast-Track)	
Class or Lab Meets:	An instructor <b>may</b> withdraw a student from a course if absences exceed:
Four times a week (MTWR classes)	4

	Three tardies count as one absence.
<b>A COURSE THAT MEETS FOR 5 WEEKS OF THE SEMESTER (Summer Sessions)</b>	
Class or Lab Meets:  3 times a week (MTW) (evening classes) 4 times a week (MTWR) (day classes)	An instructor <b>may</b> withdraw a student from a course if absences exceed:  2 2  Three tardies count as one absence.

**Workforce Classes (This does not include Health Occupations. See Health Occupations Handbook regarding absences for that program.)**

Day Classes	Evening Classes
Class meets:  5 days a week (MTWRF)  The instructor <b>may</b> withdraw a student from a course if absences exceed five (5) up until the published Last Day for Students to Drop. Absences that exceed this number after the drop day may result in the student receiving an "F" in the program for that semester.  Three tardies count as one absence.  You are considered tardy from the designated class start time through the first 15 minutes of class. After that you will be counted absent.	Class Meets:  4 evenings a week (MTWR)  The instructor <b>may</b> withdraw a student from a course if absences exceed five (5) up until the published Last Day for Students to Drop. Absences that exceed this number after the drop day may result in the student receiving an "F" in the program for that semester.  Three tardies count as one absence.  You are considered tardy from the designated class start time through the first 15 minutes of class. After that you will be counted absent.

**Make-up Policy**

As a general policy, **I DO NOT GIVE MAKE UP EXAMS**. If you anticipate missing a test, or if something urgent comes up, you must contact me as soon as possible!!!! Exams are returned and discussed the following class period. **If you have not made arrangements with me before the next class period following the exam, your exam grade will be a zero.**

**Academic Dishonesty Policy**

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, collusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students.

Proven violations of this nature will result in the student being dropped from the class with an “F”.

This policy applies campus wide, including TC Testing Center, as well as off-campus classroom or lab sites, including dual credit campuses. This information can be found in the Student Handbook at <https://texarkanacollege.edu>.

**Disability Act Statement:**

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Larry Andrews at 903.823.3283, or go by the Recruitment, Advisement, and Retention Department located in the Administration building for personal assistance.

If you have an accommodation letter from their office indicating that you have a disability which requires academic accommodations, please present it to me so we can discuss the accommodations that you might need for this class. *It is best to request these changes at the beginning if not before the start of class* so there is ample time to make the accommodations..

**Financial Aid:**

**Attention!** Dropping this class may affect your funding in a negative way! You could owe money to the college and/or federal government. Please check with the Financial Aid office before making a decision.