Instructor:  Professor Jim Gloer
Email:  james-gloer@uiowa.edu (please include "CHEM:2230" in the subject line)  Phone:  5-1361
Office:  E515 CB;  Drop-in hours M 1:00-2:30 PM, T 11:00 AM-12:00 PM, W, 11:30 AM-12:30 PM.
Teaching Assistant:  Zachary Fike    Email:  zachary-fike@uiowa.edu

Course description:  This course is the first in a two-semester sequence oriented toward majors in the chemical sciences that provides an overview of the chemistry of carbon-containing compounds.  This semester’s coverage includes basic concepts of structure, functional groups, nomenclature, acidity/basicity, physical properties, stereochemistry, reactivity, reaction mechanisms, synthesis, and spectroscopic analysis of organic compounds.  Emphasis this semester will be placed on the chemistry of alkanes, alkenes, alkynes, alcohols, ethers, alkyl halides, and some carbonyl compounds.  Details of important major reaction types including substitution, elimination, addition, and radical reactions will be addressed.

Web Site:  Online content will be managed using the course ICON site (http://icon.uiowa.edu/index.shtml).  The site will be used to post pdf copies of the slides used in class, as well as practice exams, exam keys, a schedule for the semester with a list of suggested text problems for each week, this syllabus, and occasional announcements.  Most of these will be posted under the “Files” menu item.  The ICON site will also have access to the e-Text for the course.


Approximately $68 will be billed to your U-Bill for this e-Text.  However, you may choose to opt out of the e-version in favor of hard copy if you prefer (see below).  Copies of the latter are available in the bookstore or online; soft-cover, ring-bound, and used versions of the book may also be available online, as are rentals.  The earlier (11th) edition of this book could also be used.  However, all references (page numbers, assigned problems, etc.) in the posted course materials will refer to 12th Edition.  If a student chooses a different edition, it is the student’s responsibility to correlate these references to their edition.

Opt-out option for ICON Direct e-Text:  If you prefer to get a hard copy of the book, an opt-out mechanism for the fee-funded e-Text listed on ICON Direct is available.  By choosing to opt-out, you will not have access to the e-Text.  Access to the e-Text is cheaper through the course fee than as a stand-alone product, and is cheaper than buying the hard copy text.  It is also more convenient in some ways, but some may prefer a hard copy version--the content of the e-Text is the same as that of the hard copy.

If you wish to opt out, instructions on how to do so can be found in the General Information Module of our ICON course site.  The opt-out period ends on the last add date of the semester, which is September 2 at 6:00 PM.  If you have opted out by mistake, please use the same instructions in our ICON course to opt back in before the September 2 deadline.  You cannot change your decision after that date.  For more information on ICON Direct opt out, please visit https://teach.uiowa.edu/icon-direct-opt-out
**Optional Materials:** Students are advised to obtain a set of molecular models. Models are helpful in learning to visualize the 3D-structures of organic compounds, but they cannot be used during exams. They are available from a variety of sources, including the bookstore and online (e.g., low-cost options at https://hgs.maruzen.info/collections/molecular-model-kits). In the past, kits have also been sold by the UI Chemistry fraternity near the Chemistry Center (E225 CB) during the first few weeks of the semester.

An available Study Guide (ISBN-13: 978-1119077329) contains answers to all the text problems and some other resources, but we will post answers to suggested end-of-chapter problems from this source on ICON.

**Course Notes:** Copies of the Powerpoint slides used in class will be made available on the course ICON site as pdf files. These notes offer concise, complementary coverage of the topics in the text. They are intended to be helpful—not to alleviate the need for attending class. Sets of notes will be posted at least three days before they are covered in class. It is recommended that you read them over before class and add highlights, further notes, and/or answers to questions you may have about them during lecture.

**Lectures:** MWF, 10:30-11:20 AM. Lectures will be in-person and are scheduled in W128 CB. Attendance will not be recorded, but is, of course, strongly encouraged. Please note that extended office hours will be held in lieu of the regularly scheduled lecture on exam dates.

**Office Hours (E515 CB):** As noted above, your instructor’s student drop-in hours are Mondays 1:00-2:30 PM, Tuesdays 11:00 AM-12:00 PM, Wednesdays, 11:30 AM-12:30 PM. Occasional conflicts may arise on a given day—if so, that office hour will be rescheduled if possible and noted in class.

Expanded office hours (to be announced) will be offered during exam weeks. Questions can be answered during class, immediately after class, in discussion sections, or during office hours. If a meeting is needed outside of these options, please make an appointment via email. Zoom meetings are possible, but tend to be less useful for this class, since structures often need to be drawn or models built. Your TA will announce his office hours and a location for them in your first discussion section meeting.

**Discussion Sections:** Each student is signed up for one of three weekly discussion sections (listed below) conducted by the TA. CHEM:2230 is only a three-credit course, so attendance at these sessions is not required, but they are intended for your benefit. They are essentially "help sessions" that provide opportunities to ask questions about lecture material, problems from the text, practice exam questions, etc. in a smaller group setting. They may also be helpful in establishing study groups with classmates.

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<th>Section</th>
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<tr>
<td>CHEM:2230:0003</td>
<td>11:30 AM - 12:20 PM</td>
<td>M</td>
<td>E203 CB</td>
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<tr>
<td>CHEM:2230:0004</td>
<td>3:30 PM - 4:20 PM</td>
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<td>E224 CB</td>
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<td>CHEM:2230:0002</td>
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**Exams:** There will be three regular midterm exams and a final. Each regular exam will be given on a Wednesday at 6:30 PM and will last 90 minutes. The dates and locations of these exams are listed below. Changes are unlikely, but would be announced in class and on ICON well beforehand. The final exam will be held at the UI-scheduled time and place (to be announced mid-semester) and will last two hours. All exams will be comprehensive since understanding of material encountered later in the course will require application of concepts learned previously. However, each regular exam will emphasize material covered since the previous exam. Announcements will be made in class regarding the material to be covered on each exam. Topics to be covered on a midterm exam will conclude with the material presented on the Friday before the exam. Class time on the Monday prior to exams will be used as a review session.
Exam Schedule:
Exam 1: Wednesday, Sept. 21 at 6:30 PM in room W151 PBB
Exam 2: Wednesday, Oct. 19 at 6:30 PM in room W151 PBB
Exam 3: Wednesday, Nov. 16 at 6:30 PM in room W151 PBB
Final Exam: Details to be announced (assigned by the Registrar generally by the 5th week of classes)

Please note: Midterm scheduling conflicts between courses can occur and it is your responsibility to review your exam schedule and report conflicts early in the semester. Specific policies regarding midterm conflicts can be found here: https://registrar.uiowa.edu/midterm-exam-policies

Exams will be closed-book. Prior to the start of each exam, phones should be turned off and stowed away. All extraneous materials (e.g., models, notes, laptops, tablets, backpacks, etc.) should be left at home or brought to the front of the room. Calculators will not generally be needed, but will be allowed for exam 3 and the final. The use of any other electronic devices during exams is prohibited. The exams will include some short-answer type questions wherein you will need to write out answers and/or draw appropriate chemical structures or add key features in spaces provided on the exam. We will use Gradescope to grade and return the scanned exams online as promptly as possible. Exam results and answers will be posted on the course ICON site.

Exam Regrades: Exams in this class are graded by humans so that partial credit can be awarded where possible for a given question. If you feel that a mistake has been made in grading your exam, you can request a regrade online via Gradescope. Please indicate which question should be checked, and provide a (brief) explanation of what you believe was done incorrectly. The entire exam will be reviewed - if points were incorrectly awarded, the corresponding score change will also be made. Regrade requests must be submitted within one week of the time the graded exams are made available (within 24 hours for the final exam). No regrades will be possible after that. This process is intended to apply to situations where your answer matches the key, but was misgraded, or an error was made when totaling your score. If you disagree with an answer on the key, please discuss the issue with your instructor.

Make-up Exams: There are no scheduled make-up times for the exams. If you know you will miss an exam due to a university-sanctioned activity, you must notify the instructor via email at least one week in advance so something can be worked out. If you miss an exam due to illness on the day of the exam, you will need to email your instructor on the same day (at the latest) and include appropriate supporting documentation with your request. If a make-up is unavoidable, your instructor will work with you to schedule a time. Under no circumstances will a make-up be given in place of a regular exam taken earlier. Issues regarding possible midterm scheduling conflicts are addressed above under the Exam Schedule.

Course Grades: Grades will be based on performance on the three regular exams (300 points) and the final exam (140 points). Total points possible = 440. No scores will be dropped in calculating the final grade for the course, and everyone must take the final exam. No letter grades will be formally assigned for midterm exams, but an approximate letter grade curve for each exam will be provided during class so that students will know where they stand grade-wise. Because this course has short answer, non-standardized exams, average scores tend to be lower than on multiple choice exams, and the curve will be set accordingly. At the end of the semester, exam scores will be totaled, and the resulting sums will be fitted to a curve in order to assign final grades. The grading curve will be based on the class performance this semester, and +/- grading will be used for final grades. College guidelines for norm-referenced grading will be followed in establishing the final grade distribution (see https://clas.stage.drupal.uiowa.edu/faculty/grades-grading-system-and-distribution)
Drop-Add: For information on making any changes in registration, please visit the UI Registrar’s site at https://registrar.uiowa.edu/changes-registration. If any special permission is deemed necessary, it can be obtained at the Chemistry Center (E225 CB). The last day to drop without receiving a “W” is Friday, September 2. Students wishing to add or drop this course after that date must receive the approval of the Dean of the College of Liberal Arts and Sciences. The deadline this semester for undergraduates to drop a course (with a “W”) is Monday, October 31.

Other Course Information: General inquiries about times and places of exams, discussion sessions, TA office hours, etc. can be taken to the Chemistry Center (E225 CB; 335-1341). This course is being offered by the College of Liberal Arts and Sciences. Thus, policies on various general matters such as final exam policies, expectations, and sanctions for academic dishonesty are governed by the College. These policies are reproduced on the last pages of this syllabus.

Student Rights and Responsibilities: For UI policies on academic misconduct, plagiarism and cheating, forgery, student complaints concerning faculty actions, and procedures for complaints, see the Student Academic Handbook: http://www.clas.uiowa.edu/students/academic_handbook.

Public Health: Authorities recommend that people with flu-like illnesses stay home and not return to public spaces until 24 hours after they have no fever. In order to prevent the spread of disease, please do not come to class, meet with other groups of students, attend office hours, or contact offices in person while you are ill with a fever.

Covid-related UI Policies: The UI encourages students, faculty, and staff to be vaccinated and boosted against covid-19, and welcomes everyone to wear a mask while on campus, in classrooms, and during in-person office hours. However, mask usage is not required except in specified healthcare settings.

Special Needs: Your instructor needs to hear from anyone who has a disability that may require some modification of seating or other class requirements so that appropriate arrangements may be made, but students must go through Student Disability Services (SDS) office for accommodations. The SDS office is located at 141 University Capitol Centre (335-1462, sds-info@uiowa.edu). Students for whom SDS approves alternative testing arrangements should check with the instructor in case they can be readily accommodated. Otherwise, the Chemistry Center (E225 CB, 335-1341) may need to schedule their exams.
**Course Outline:** The material to be covered this semester is summarized below. We will directly follow the sequence in the textbook, covering Chapters 1–12. The continuation of the two-semester organic chemistry sequence (Organic Chemistry II for Majors, CHEM:2240) begins with Chapter 13.

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<tr>
<th>Chapter</th>
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<tr>
<td>1</td>
<td>1-54</td>
<td>Bonding and Molecular Structure</td>
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<tr>
<td>2</td>
<td>55-103</td>
<td>Functional Groups, Intermolecular Forces, and IR Spectroscopy</td>
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<tr>
<td>3</td>
<td>104-143</td>
<td>Acids and Bases</td>
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<td>4</td>
<td>144-192</td>
<td>Alkanes and Cycloalkanes—Nomenclature and Conformation</td>
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<td>5</td>
<td>193-239</td>
<td>Stereochemistry</td>
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<tr>
<td>6</td>
<td>240-281</td>
<td>Nucleophilic Substitution Reactions and Alkyl Halides</td>
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<td>7</td>
<td>282-336</td>
<td>Alkenes and Alkynes I—Properties and Synthesis via Elimination</td>
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<td>8</td>
<td>337-390</td>
<td>Alkenes and Alkynes II—Addition Reactions</td>
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<td>9</td>
<td>391-447</td>
<td>NMR and Mass Spectrometry—Structure Determination</td>
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<tr>
<td>10</td>
<td>448-488</td>
<td>Radical reactions</td>
</tr>
<tr>
<td>11</td>
<td>489-533</td>
<td>Alcohols and Ethers</td>
</tr>
<tr>
<td>12</td>
<td>534-571</td>
<td>Alcohols from Carbonyl Compounds</td>
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Targeted **learning outcomes** for the course include:
- Ability to draw, name, and classify organic molecules, recognize functional groups, and understand how properties and reactivities vary depending on structural features.
- Understanding three-dimensional features of organic molecules and how to depict them.
- Knowledge of common reactions involving the compound classes covered this semester and reagents and conditions that are used for such reactions.
- Ability to explain how and why reactions occur by drawing mechanisms for such processes and recognizing the reactivity properties of compounds and intermediates.
- Recognition of similarities among reactions that may initially appear to be quite different.
- Identifying structural features of organic molecules by analyzing spectroscopic data.
- Understanding how organic chemistry principles apply to other areas such as biological systems, where many reactions analogous to those learned in the class occur constantly.

**Schedule and work assignments:** A schedule for the semester including weekly assigned chapter content and homework problems from the text is provided as a separate document on ICON to help keep students on pace. *Please adhere to this schedule as rigorously as you can.* We have a lot of new material to cover in this class, and it is critical to keep up and not fall behind. A subset of the text problems is suggested to provide students with practice and concept reinforcement. These were selected to keep the number manageable and to focus on concepts most relevant to course objectives and exam content, but will not be graded. Additional problems from the text can also be of value for further practice. Coverage and discussion of assigned problems will be a feature of discussion sections. If any problems cause difficulty, please ask about them in discussion or office hours as soon as possible.

Online homework is not offered in this course in part because of the need for students to practice drawing structures and illustrating processes by hand. Artistic talent is not required, but learning to show such things legibly is an important part of the culture of organic chemistry (and will be important on exams).
Some Study Suggestions for Organic Chemistry

- Some consider this course difficult because it is so unlike others that they have taken before. For example, one major difference between organic and general chemistry is that there is little math involved in organic 1 and 2 – most topics are presented in a highly qualitative way. There will be almost no equations that you can plug numbers into to find answers. As in any course, there are things we must ask you to memorize, but you will be most successful if you strive to understand the concepts, how they relate to one another, and how they can be applied to new situations that you encounter.

- We must cover a lot of new material in this course, so it is critical to take responsibility to keep up and adhere to the schedule of chapter coverage and assigned problems. Text problems and practice exams are not graded, and you should feel free to collaborate with others in studying this material. However, if you fall behind, it will be very difficult to catch up. This is not a course in which you can cram the night before an exam and expect to do well - ask anyone you know who has taken organic chemistry.

- The initial chapters contain some material that you have likely been exposed to in earlier classes. Student backgrounds differ, but it is important to understand these concepts very well because we will rely on them throughout the course. Please do not be misled by familiarity with this content—the material gets much newer for most students after these chapters.

- Our exams will have a few multiple choice questions, but other problems will require you to draw chemical structures, list correct reagents, show details of a process, etc. To prepare for exams, it is important to become proficient in understanding and drawing chemical structures. Practice writing the answers to suggested problems that ask you to draw structures. Molecular models are useful in helping to understand structures better, but we cannot allow their use during exams.

- The course notes have been constructed to offer concise coverage of the key topics covered in the text. Many students use these as a core resource for learning the material, with the text serving as a supplement/reference that offers additional detail and provides relevant problems for practice.

- Come to class. The notes are intended to help you learn, and to enable you to listen in class and make extra notes and highlights, rather than focus on frantically copying everything. However, they are incomplete without the explanations, emphasis, model demonstrations, etc. that will be provided during class. Many of the course concepts are truly new to most people, and it is unlikely that you can simply read the notes or the book and understand everything (or be sure what is most important). Most students find that more explanation of this material is needed, not less.

- Take the practice exams that will be provided for you well before each regular exam. They will look very much like the regular exams, so if you take them seriously and impose a time limit on yourself, you can get a feel for the time it will take you to finish the actual exam. Check your answers with the key and investigate any that you get wrong.

- Take advantage of discussion sections. Discussion sections are optional, so no graded materials arise from them. They are weekly help sessions that are intended to make up for the shortage of time we have during lectures to work practice problems. For those who attend regularly, and participate, these sessions offer an opportunity for getting additional help and concept reinforcement in a smaller, less formal class setting. They can also facilitate formation of study groups with classmates.

- Take advantage of office hours offered by your instructor and your TA throughout the semester. They are for your benefit and all questions are welcome. Please feel free to ask a question again if an answer is not clear. Extra office hours will be added during exam week in an effort to accommodate everyone.
ATTENDANCE AND CLASSROOM EXPECTATIONS
Students are responsible for attending class and for knowing an instructor’s attendance policies, which vary by course and content area. All students are expected to attend class and to contribute to its learning environment in part by complying with UI policies and directives regarding appropriate classroom behavior or other matters.

ABSENCES
Students are responsible for communicating with instructors as soon they know that an absence might occur or as soon as possible in the case of an illness or an unavoidable circumstance. Students can use the CLAS absence form to help communicate with instructors who will decide if the absence is excused or unexcused; the form is located on ICON within the top banner under “Student Tools.” Delays by students in communication with an instructor could result in a forfeit of what otherwise might be an excused absence (https://clas.uiowa.edu/students/handbook/attendance-absences).

ABSENCES: ILLNESS, UNAVOIDABLE CIRCUMSTANCES, AND UNIVERSITY SPONSORED ACTIVITIES
Students who are ill, in an unavoidable circumstance affecting academic work, or who miss class because of a University sponsored activity are allowed by UI policy to make up a missed exam. Documentation is required by the instructor except in the case of a brief illness. Students are responsible for communicating with instructors as soon as the absence is known (https://opsmanual.uiowa.edu/students/absences-class#8.1).

ABSENCES: HOLY DAYS
Reasonable accommodations are allowed for students whose religious holy days coincide with their classroom assignments, tests, and attendance if the student notifies the instructor in writing of any such religious Holy Day conflicts within the first days of the semester and no later than the third week. (See the UI Operations Manual, https://opsmanual.uiowa.edu/students/absences-class#8.2).

ABSENCES: MILITARY SERVICE OBLIGATIONS
Students absent from class due to U.S. veteran or U.S. military service obligations (including military service-related medical appointments, military orders, and National Guard Service obligations) must be excused without penalty. Instructors must make reasonable accommodations to allow students to make-up exams or other work.

ACADEMIC MISCONDUCT
All undergraduates enrolled in courses offered by CLAS have in essence agreed to the College’s Code of Academic Honesty. Academic misconduct affects a student's grade and is reported to the College which applies an additional sanction, such as suspension. Outcomes about misconduct are communicated through UI email (https://clas.uiowa.edu/students/handbook/academic-fraud-honor-code).

ACADEMIC ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES
UI is committed to providing an educational experience that is accessible to all students. A student may request academic accommodations for a disability (such as a mental health, attention, learning, vision, and a physical or health-related condition) through the Student Disability Services (SDS) office. The student is responsible for discussing specific accommodations with the instructor. Note that accommodations are not granted retroactively but from the time of the student’s request to the instructor onward; additionally, accommodations must be requested at least two weeks in advance of the related assignment or exam (https://sds.studentlife.uiowa.edu/).

CLASS RECORDINGS: PRIVACY AND SHARING
Course lectures and discussions are sometimes recorded or live-streamed. These are only available to students registered for the course and the intellectual property of the faculty member. These materials may not be shared or reproduced without the explicit written consent of the instructors. Students may not share these recordings with those who are not enrolled in the course; likewise, students may not upload recordings to any other online environment. Doing so is a breach of the Code of Student Conduct and could be a violation of the Federal Education Rights and Privacy Act (FERPA); also see https://dos.uiowa.edu/policies/code-of-student-life/.
COMMUNICATION: UI EMAIL
Students are responsible for all official correspondences sent to their UI email address (uiowa.edu) and must use this address for any communication with instructors or staff in the UI community (Operations Manual, III.15.2). Emails should be respectful and brief, with complex matters addressed during the instructor’s drop-in hours, for example. Faculty are not expected to answer email after business hours or during the weekends.

COMPLAINTS ABOUT ACADEMIC MATTERS
Students with a complaint about a grade or a related academic issue should first visit with the instructor and next, if needed, with the Chair of the department (len-macgillivray@uiowa.edu; E331 CB). If not resolved, students may bring their concerns to the College of Liberal Arts and Sciences: https://clas.uiowa.edu/students/handbook/student-rights-responsibilities.

FINAL EXAMINATION POLICIES
The final exam schedule is published during the fifth week of the fall and spring semesters or on the first day of summer classes; students are responsible for knowing the date, time, and place of their final exams. Students should not make travel plans until knowing this information. A student with exams scheduled on the same day and time or who have more than two final exams on the same day should visit this page for how to resolve these problems by the given deadline: https://registrar.uiowa.edu/makeup-final-examination-policies. No exams may be scheduled the week before finals; some exceptions, however, have been made for labs, language courses, and off-cycle courses (https://registrar.uiowa.edu/final-examination-scheduling-policies).

FREE SPEECH AND EXPRESSION
The University of Iowa supports and upholds the First Amendment protection of freedom of speech and the principles of academic and artistic freedom. We are committed to open inquiry, vigorous debate, and creative expression inside and outside of the classroom. Visit Free Speech at Iowa for more information on the University’s policies on free speech and academic freedom (https://freespeech.uiowa.edu/).

HOME OF THE COURSE
The College of Liberal Arts and Sciences (CLAS) is the home of this course, and CLAS governs the course’s add and drop deadlines, the “second-grade only” option (SG0), and other undergraduate policies and procedures. Different UI colleges may have other policies or deadlines. See https://clas.uiowa.edu/students/handbook. Questions? Contact CLAS at clasps@uiowa.edu or 319-335-2633.

MENTAL HEALTH. Students are encouraged to seek help as a preventive measure or if feeling stressed or overwhelmed. Students should talk to their instructors for guidance with specific class-related concerns and are encouraged to contact University Counseling Service (UCS) at 319-335-7294 during regular business hours to schedule an appointment. UCS offers group and individual therapy as well as counseling for couples about relationships while making referrals to other resources (https://counseling.uiowa.edu/). Student Health can also address related concerns (https://studenthealth.uiowa.edu/). These visits are free to students. After hours, students are encouraged to call the Johnson County Community Crisis Line at (319) 351-0140 or dial 911 in an emergency.

NONDISCRIMINATION IN THE CLASSROOM
The University of Iowa is committed to making the classroom a respectful and inclusive space for people of all gender, sexual, racial, religious, and other identities. Toward this goal, students are invited in MyUI to optionally share the names and pronouns they would like their instructors and advisors to use to address them. The University of Iowa prohibits discrimination and harassment against individuals based on race, class, gender, sexual orientation, national origin, and other identity categories indicated by the University’s Human Rights policy. Contact the Office of Equal Opportunity and Diversity at https://diversity.uiowa.edu/division/office-equal-opportunity-and-diversity-eod.

SEXUAL HARASSMENT
Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff; all members of the UI community are expected to conduct themselves in a manner that maintains an environment free from sexual harassment and sexual misconduct. Those experiencing sexual harassment are strongly encouraged to report the incidents and to seek help (https://osmrc.uiowa.edu/).
LIST OF UI ACADEMIC SUPPORT RESOURCES
- Tutor Iowa: http://tutor.uiowa.edu
- Supplemental Instruction through University College: https://tutor.uiowa.edu/find-help/supplemental-instruction/
- TRIO Student Support Services: https://diversity.uiowa.edu/programs/student-support/trio-student-support-services
- Athletics Student Tutoring: https://academics.hawkeyesports.com/academic-success
- College of Engineering Tutoring: https://engineering.uiowa.edu/current-students/academic-support-and-tutoring/engineering-tutoring
- Nursing/Pre-Nursing Academic Support: https://nursing.uiowa.edu/diversity/academicsupport
- Writing Center: https://writingcenter.uiowa.edu/

LIST OF UI PHYSICAL/MENTAL HEALTH & WELL-BEING RESOURCES
- University Counseling: https://counseling.uiowa.edu/
- Student Health: https://studenthealth.uiowa.edu/
- Sexual Harassment: https://osmrc.uiowa.edu/
- Student Disability Services: https://sds.studentlife.uiowa.edu/students