Title of Course: CALCULUS I Math: 1850:0DDD and Math: 1850:0MMM

Course meeting time and place:

(Lecture)
9:30A - 10:20A MWF 110 MLH (0DDD) and 10:30A- 11:20P MWF 110 MLH

(Discussion)
Math: 1850:0D09 9:30A - 10:20A TTh 205 MLH (Ziqing Lu)
Math: 1850:0D10 5:00P - 5:50P TTh 113 MLH (Kevin Wang)
Math: 1850:0M30 2:00P – 2:50P TTh 105 (Michele Capovilla-Searle)

MATH:1850:0M31 3:30P - 4:20P TTh 105 MLH (Kevin Wang)

Department of Mathematics: https://math.uiowa.edu

Course ICON site: To access the course site, log into Iowa Courses Online (ICON) using your Hawk ID and password.

Course Home
For Undergraduate Courses: The College of Liberal Arts and Sciences (CLAS) is the home of this course, and CLAS governs the add and drop deadlines, the “second-grade only” option (SGO), academic misconduct policies, and other undergraduate policies and procedures. Other UI colleges may have different policies.

Instructor: Hao Fang
Office location: 25K MLH
Student drop-in hours: MWF 9:00-10:25, 11:30-11:55am (Students are invited to drop by during these hours to discuss questions about the course material or concerns. I am also available by appointment.)
Phone: 319-335-0772
E-mail: hao-fang@uiowa.edu

DEO: Ryan Kinser ryan-kinser@uiowa.edu Office: 14A MLH/25F MLH

Description of Course
This is first of the two-course sequence class of Calculus. It is intended to teach one-variable calculus and its basic applications to prepare math, physics, statistics, computers science, chemistry and other STEM majors for more advanced courses in math and science. Students meet in sections of 60, three times per week with a faculty member, and two times a week for discussions with a TA in sections of 30 students. Math Lab tutoring is offered for additional help.
**Learning Objectives**
We aim to understand fundamental concepts and master basic computation and applications of calculus. Topics covered in the course include functions and graphs, examples and applications; limits, derivatives and their geometric and physics interpretation; various differentiation rules and techniques of computation; application of differentiation in science, extremal value problems and optimization problems; basic concept of integration and its geometric interpretation, fundamental theorem of calculus and its applications.

**Textbook/Materials**
The required textbook(s) for this course are:

- **Title:** Single Variable Calculus: Early Transcendentals
- **ISBN:** 9780357022269
- **Author:** Stewart James; Clegg Daniel K.; Watson Saleem
- **Publisher:** Cengage
- **Copyright Year:** 2020

**Academic Honesty and Misconduct**
All students in CLAS courses are expected to abide by the CLAS Code of Academic Honesty. Undergraduate academic misconduct must be reported by instructors to CLAS according to these procedures. Graduate academic misconduct must be reported to the Graduate College according to Section F of the Graduate College Manual.

**Student Complaints**
Students with a complaint about a grade or a related matter should first discuss the situation with the instructor and/or the course supervisor (if applicable), and finally with the Director or Chair of the school, department, or program offering the course.

Undergraduate students should contact CLAS Undergraduate Programs for support when the matter is not resolved at the previous level. Graduate students should contact the CLAS Associate Dean for Graduate Education and Outreach and Engagement when additional support is needed.

**Drop Deadline for this Course**
You may drop an individual course before the deadline; after this deadline you will need collegiate approval. You can look up the drop deadline for this course here. When you drop a course, a “W” will appear on your transcript. The mark of “W” is a neutral mark that does not affect your GPA. Directions for adding or dropping a course and other registration changes can be found on the Registrar’s website. Undergraduate students can find policies on dropping CLAS courses here. Graduate students should adhere to the academic deadlines and policies set by the Graduate College.

**Grading System and the Use of +/-**
Final grades will be awarded based on the following minimal cutoffs:
Course Grades
Final course grades will be assessed based on your performance in the following activities:

Weekly quiz: 40%

1st Midterm Exam (Sep 27 Wednesday): 15%

2nd Midterm Exam (Nov 8 Wednesday): 15%

Final Exam: 30%

language for quizzes: To ensure that students are completing the course readings and understanding the material, regular quizzes will be given during discussion sessions. The quizzes will be worth 10 points each. Starting in week one, the quizzes will be offered every Thursday. They will evaluate key information presented in the course readings for the time covered by the quiz.

language for class participation: Regular and prompt attendance is strongly encouraged for this course. It is in your interest to attend every class and to arrive with significant contributions to make to discussions. Participation in this class includes making lists of issues for class discussion and giving prepared, oral responses to questions.

language for exams: Two exams of equal weight will be given. Each exam will cover material from approximately half of the course, including information presented in lecture, discussion section, and the assigned readings. The exams will test student’s knowledge of basic concepts, terms, and general trends discussed in the course. Study guides will be posted on ICON at least a week before the exam. Suggested study techniques for the exam are for the student to complete all the suggested readings for the exam and then to use course notes, and readings to be sure that they are familiar with all the terms and concepts outlined on the study guide. These exams will consist of computations.

Date and Time of the Final Exam
The final examination date and time will be announced by the Registrar generally by the fifth week of classes and it will be announced on the course ICON site once it is known. Do not plan your end of the semester travel plans until the final exam schedule is made public. It is your responsibility to know the date, time, and place of the final exam. According to Registrar’s final exam policy, students have a maximum of two weeks after the announced final exam schedule to request a change if an exam
conflict exists or if a student has more than two exams in one day (see the policy here).

**Calendar of Course Assignments and Exams**

*Suggested problems to prepare for the weekly (Thursday) quizzes will be listed on ICON 5 days before each quiz (except for week 1).*

**August-September:** Chapter 1 and 2 (Functions, Limits and Derivatives)

**October:** Chapter 3 (Differentiation Rules)

**November:** Chapter 4 (Applications of Differentiation)

**December:** Chapter 5 (Integrals)

**Attendance and Absences**

*Students are asked to use the absence form in ICON under Student Tools.*

*University regulations require that students be allowed to make up examinations that have been missed due to illness, religious holy days, military service obligations (including service-related medical appointments), or other unavoidable circumstances or University-sponsored activities. Students with UI-authorized activities must discuss their absences with the instructor as soon as possible. Religious obligations must be communicated within the first three weeks of classes.*

**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. For the privacy and the protection of student records, UI faculty and staff can only correspond with UI email addresses.*

**Where to Get Academic Support for this Course**

*Math Tutor Room in MLH 1st Floor. https://math.uiowa.edu/math-tutorial-lab*

**Mental Health Resources and Student Support**

*Students are encouraged to be mindful of their mental health and seek help as a preventive measure or if feeling overwhelmed and/or struggling to meet course expectations. Students are encouraged to talk to their instructor for assistance with specific class-related concerns. For additional support and counseling, students are encouraged to contact University Counseling Service (UCS). Information about UCS, including resources and how to schedule an appointment, can be found at counseling.uiowa.edu. Find out more about UI mental health services at mentalhealth.uiowa.edu.*
Student Care and Assistance provides assistance to University of Iowa students who are experiencing a variety of crisis and emergency situations, including but not limited to medical issues, family emergencies, unexpected challenges, and sourcing basic needs such as food and shelter. More information on the resources related to basic needs can be found at basicneeds.uiowa.edu/resources/. Students are encouraged to contact Student Care & Assistance in the Office of the Dean of Students (Room 135 IMU, dos-assistance@uiowa.edu, or 319-335-1162) for support and assistance with resources.

University Policies

Accommodations for Students with Disabilities
The University is committed to providing an educational experience that is accessible to all. If a student has a diagnosed disability or other disabling condition that may impact the student’s ability to complete the course requirements as stated in the syllabus, the student may seek accommodations through Student Disability Services (SDS). SDS is responsible for making Letters of Accommodation (LOA) available. The student must provide an LOA to the instructor as early in the semester as possible, but requests not made at least two weeks prior to the scheduled activity for which an accommodation is sought may not be accommodated. The LOA will specify what reasonable course accommodations the student is eligible for and those the instructor should provide. Additional information can be found on the SDS website.

Free Speech and Expression
Absences for Religious Holy Days
Classroom Expectations
Non-discrimination
Sexual Harassment/Misconduct and Supportive Measures
Sharing of Class Recordings (if appropriate)