- This Syllabus is available on ICON (under CONTENT in .nb format)

You need *Mathematica* to read .nb files and open the cells with the little half arrowheads that contain details below.

The University of Iowa
The College of Liberal Arts and Sciences
Department of Mathematics
Engineering Mathematics 2: Multivariable Calculus
(MATH:1560 000A and 000B)

(click half arrowheads to open information)

Spring 2022 - Prof. Seaman (click half arrowheads to open information)

Office: 325K MacLean Hall - Phone: 319-335-0795 - Website: http://homepage.math.uiowa.edu/~seaman
Office hours Zoom-base, times TBA or by appointment (eMail: walter-seaman@uiowa.edu)

MathLab 125 MLH: times to be set after seminars are scheduled (approx. 30 hrs/wk with course staff)

The Math Department DEO is: Professor Weimin Han, Office: 14A MLH, Phone: (319) 335-0714

Required eText: Advanced Calculus using *Mathematica* (.nb Edition)

Students should wait to buy the eBook for the course until after they have Mathematica on their computer.

Instructions on how to get the eText are posted on ICON.

About the eText: http://homepage.divms.uiowa.edu/~stroyan/AdvCalcWebsite/AdvCalcHomeWeb.html

Attendance

- You are expected to attend both discussions and lectures. Material covered only in lectures may be on the exam.

Class Locations and times

Lectures Mon, Wed, Fri 12:30 and 1:30 in W290 CB

T.A. Discussion Sections Tuesdays and Thursdays

- Section 0001 @ 8:30 in 117 MLH
- Section 0002 @ 9:30 in 117 MLH
- Section 0003 @ 10:30 in 117 MLH
- Section 0004 @ 3:30 in 117 MLH
- Section 0005 @ 12:30 in 117 MLH
- Section 0006 @ 1:30 in 117 MLH
- Section 0007 @ 2:30 in 117 MLH
- Section 0008 @ 11:30 in 117 MLH
- Section 0009 @ 4:30 in 117 MLH
- Section 0010 @ 5:30 in 117 MLH
- Section 0013 @ 8:30 in 125 MLH
- Section 0014 @ 4:30 in 125 MLH

Goals & Objectives

The goal of this course is to make you proficient users of calculus in three dimensional space in preparation for a variety of engineering and science courses. A general description of the goals is in the preface to the text. Topics to be covered include vector geometry; functions of several variables; polar coordinates; partial derivatives, gradients, directional derivatives; tangent lines and planes; parametric curves, curvilinear motion; multiple integrals; vector fields, flows; integration on curves, work; divergence, flux, Green's theorem;

series and Taylor series. This means we will work from chapters 1-4, 8-13, and 21 of the text. See the weekly syllabus below for more details.

Computing

Part of your grade in this course involves computing using the resources in the discussion section rooms or your own computer with Student *Mathematica*. If you registered on time there are instructions on ICON for acquiring Mathematica and the eText. The ITS helpdesk or your TA or I can try to help if you have difficulty setting up your computer.

- Computing in MLH
  - Click for *a* list of open times for 117 MLH (the discussion section computer classroom). In addition, there are computers in 125 MLH (click for schedule) and labs in B5 MLH and 301 MLH (open when the building is open)
- Computing in Seamans Center
  - You have an account on the engineering computing network with *Mathematica*, but not direct access to the course files (you can use remote login to the IOWA domain). If you don't know your Engineering password go to the engineering main computing office, 1256 SC.
- Computing around campus in "ITCs"
  - The "ITC" computers around campus have *Mathematica* installed on them. If you have a favorite ITC that you prefer to the MacLean Hall or Engineering Labs, give it a try and let me know if you're having trouble with *Mathematica* there.
- Additional help with *Mathematica*: Open *Mathematica* on a machine and then follow along with: http://www.wolfram.com/broadcast/screencasts/handsonstart/

Grading

Your grade (including + and - grades) will be based on several kinds of work that measure your progress toward achieving this goal. Your grades can be viewed on your "ICON" account accessible from http://icon.uiowa.edu/

Note that A+ grades are given only in extraordinary situations. In this class to score an A+ your cumulative course percentage score must be at least 100.1% (more than 100%, this is possible because there will be some extra credit work).

Written Homework = 20% of your cumulative course percentage score = 100 points (details below)

Activity work = 16% of your cumulative course percentage score = 80 points (details below)

Exams (4) = 44% of your cumulative course percentage score (11% = 55 points per exam (details below))

Final exam = 20% of your cumulative course percentage score = 100 points (details below)

A Word about the 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. I will announce the final examination date and time for this course at 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.

We expect you to attend zoom lectures, discussion sections, and complete written and electronic homework on time. **We will NOT accept late work without documented illness or other approved excused absences, delivered within one week of the due date for the course work.** (Official policies are at:

http://clas.uiowa.edu/faculty/teaching-policies-resources-student-absences .)

Written Homework = 20% of your cumulative course percentage score = 100 points

There are 25 homework assignments each worth 5 points. We will drop the 5 lowest homework scores. Homework is listed below each lecture in the Weekly Syllabus section. You should try the problems in the lecture notes and assignments and be ready to ask questions at the discussion section immediately following that lecture.

Each homework must be hand-written on paper and turned in to your t.a. on the due dates indicated in this syllabus at the beginning of the discussion section. Your hand writing must be neat and easy to read, pages stapled together in one stapled assignment, not folded together at the top. Messy hand writing or writing that is too light to read, and non stapled homework will be scored as 0 points.

Problems from Fri, and Mon lectures will be discussed on Tues and usually turned in on Thur. Problems from Wed lecture will be discussed on Thur and usually turned in the following Tues. Details are given on the syllabus below and on ICON.

Only selected problems on your homework will be graded carefully, it is your responsibility to check the rest of your work. You should feel free to work with your classmates on homework, but try to understand the work and not just copy if you get help. Copying from another person's homework, or simply writing down word-for-word, or close to word-for-word what another person such as a peer or tutor or math lab assistant says or does, is considered plagiarism and will be documented and reported to the College of Liberal Arts and Sciences Dean's office for further review and possible disciplinary actions.

Activity work = 16% of your cumulative course percentage score = 80 points

This course will have two types of additional graded homework. First, there will be activities discussed and worked on in the discussion sections. These will be turned in at the end of your discussion section meeting time. Some of these activities may also have computing parts which are to be uploaded to the assignment drop boxes after discussion.

Second, there will also be separate "eLab" Mathematica electronic homework done in a Mathematica file/notebook which is to be eSubmitted to the ICON "dropbox for that eLab assignment.

There are 23 assigned Activity work assignments-15 discussion activities and 8 eLabs. Each counts for 4 points. We will drop the 3 lowest group work scores.

Exams (4) = 44% each exam = 11% of your cumulative course percentage score = 55 points per exam

Final exam = 20% of your cumulative course percentage score = 100 points

Exam dates TENTATIVELY, currently planned:

Exam #1: Friday February 11 Chapters 1 & 2 55 points

Exam #2: Friday March 4 Chapters 3 & 4 55 points

Exam #3: Friday April 1 Chapters 8 & 9 &13 55 points

Exam #4: Friday April 29 Chapters 10 &11 & 12 55 points

Final Exam: Chapters 1-4,8-13 & 21 100 points

Exams (dates in Friday lecture times as noted in the weekly syllabus below)

About Engineering Tutoring

Engineering Tutoring provides group tutoring and review support to students taking foundational and core courses in the Engineering curriculum.

Tutoring: in spring 2022. In the past have been available Sunday – Thursday, 6:00pm – 9:00pm, in 3612 SC.

It is a free, walk-in service, so students do not need to schedule an appointment; they show up, sign-in, and receive the assistance they need.

Weekly Syllabus

There might be modifications and/or adjustments to the dates during the semester.

Any such modifications will be announced in ICON and in class.

Assigned work in each weekly eSection - open the cells in the .nb document for details.

Activity paper and pencil assignments scores will be counted as part of the "Lab" score (under Group work in ICON).
Lab eWork is due in the ICON dropbox at days noted in the syllabus
Other paper and pencil homework is due as noted on the syllabus.

Some details of this course plan may be modified during the semester. Such modifications will be announced in advance during lecture periods and posted on ICON; **you are responsible for keeping abreast of such changes.**

Week #1: 18-21 Jan: Graphs

- Mon
  - HmWk#1: Ex.1.1.1(a); 3(a); Ex.1.2.1(b); 2(c); 3(b)
- Tue
  - inClass Activity: Pick 1st partner work **Ch1Act1Graphs.nb** from lab materials
  - Discuss HmWk #1
- Wed
  - HmWk#2: Ex.1.4.1(b), (d), (f); 2(b), (d), (f); 4; 5
- Thu
  - **Due** HmWk #1
  - inClass Activity: **Ch1Act2 Sliding and Squashing**
  - Discuss HmWk #2
- Fri
  - 1st Part HmWk #3: Ex.1.6.1(b); 2(b); 6

Week #2: 24-28 Jan: Vector Geometry

- Mon Vectors will be done mostly in lecture this week because of eLabs in discussion
  - Wrap up 3D graphing (Ex.1.6.6), start vectors
  - 2nd Part HmWk #3: Ex.2.1.1(B), (F); 2; 4 (b);
    Ex.2.2.1; 3;
    Ex.2.3.1; 3; 5 (b);
- Tue - Computing Day
  - **Due** HmWk2 (discussed last week)
  - **Ch1Lab1.nb** Graphing in 2D (easy, but we need to learn to use the dropbox, etc.) **Due** uploaded by 9 p.m.
- Wed
  - HmWk#4: Ex.2.4.1; 3 (3D only); 4
  - Ex.2.5.1; 3 (b), (d); 5; 6; 8
- Thu
  - **Due** HmWmWk #3
  - **Ch1Lab2.nb** Graphing in 3D **Due** uploaded by 9 p.m.
- Fri
  - HmWk#5 Part1: Ex.2.6.1 (AxC only); 2; 4(a);
  - Catch up on homework in lecture because of eLabs

Week #3: 31 Jan- 4 Feb: Lexicon

- Mon The Geometry $\Longleftrightarrow$ Algebra Lexicon & Ex.2.7.33
  - HmWk#5 Part2: Ex.2.7.1, 2, 3. 8, 13, 15, 22, 30, 36;
    Ex 2.8.1 (b); 2 (b); 5; 6
  - Ex.2.7.19(inClass Tue)
- Tue
  - **Due** HmWk #4
  - inClass Activity: = Ex.2.7.19 = Ch 2 Act 1: 3D Triangle Lengths, Angles, and Areas (This time paper & pencil started in class ed at the beginning of the NEXT hour.)
  - Optional: Chapter 2 Lab 1 - see the inClass Activity
  - Discuss HmWk #5: Ex.2.7.1, 2, 3. 8, Ex 2.8.1.,2,5,6
- Wed
  - Finish Hwk #5 2.7 & 2.8 problems
  - Derivatives CH 3: HmWk#6: Ex.3.1.1; 3; 5; 6; 8; 13; 14; 17

- Thu
  - **Due** HmWk #5 & Ch 2 Act 1
- Fri
  - HmWk#6: Ex.3.1.1; 3; 5; 6; 8; 13; 14; 17
  - HmWk#7: Ex.3.3.1 (b), (f); 2 (a); 3 (c); 4 (b); 5
    ICON in Quizzes/Surveys-Differentiation Skill Quiz #1-recommended, not required. You may discuss questions about it in discussion.

Week #4: 7-11 Feb: Partial & Total Derivatives & Exam #1-Ch 1&2

- Mon
  - HmWk#7: Ex.3.3.1 (b), (f); 2 (a); 3 (c); 4 (b); 5
    ICON in Quizzes/Surveys-Differentiation Skill Quiz #1-recommended, not required. You may discuss questions about it in discussion.
  - We will not collect, but will have *** "skill quizzes" on ICON over problems like Exercise 3.4.1.
    eWork outside class due Monday before midnight: Chapter 3 Lab 1
  - Part 1 HmWk#8: Ex.3.4.6; 3.7.2; 4
- Tue
  - inClass Activity: Ch 3 Activity 1: The Linear Gradient (= Ex.3.1.11)
  - Due: HmWk #6
- Wed
  - **Review - exam 1 like HmWks 3, 4, 5**
- Thu
  - inClass Activity: Chapter 3 Activity 2 on explicit tangents (very brief review of the Procedure)
  - Test 1 Review
  - Due Hwk #7
- Fri
  - **Exam #1 in Lecture on Chapters 1 & 2**
    Bring a #2 Pencil.-NO CALCULATORS, CELL PHONES, COMPUTERS, WATCHES, TABLETS, ETC.

Week #5: 14-18 Feb: Directional Derivatives, Gradients & Level Sets

- Mon Directional Derivatives
  - Part 1 HmWk#8: Ex.3.4.6; 3.7.2; 4
  - HmWk#8 Part 2: Ex.3.5.2(b), (d), (f); 3(b); 5; 6;
  - ICON in Quizzes/Surveys-Differentiation Skill Quiz #2-recommended, not required.
- Tue
  - **Due** HmWk #7
  - inClass Activity: Chapter 3 Lab 2: ExplicitTangents & Zooming (due in dropbox by Monday)
  - Discuss HmWk #8
  - ICON in Quizzes/Surveys-Differentiation Skill Quiz #3-recommended, not required.
- Wed Linear Contour Plots
  - HmWk#9: Ex.4.1.1 (b), (c); 2; 3; 4; 11
- Thu
  - **Due** HmWk #8
  - inClass Activity Ch 3 Act 3 Mca part
  - Discuss HmWk #9
- Fri Nonlinear Gradients
  - 1st Part HmWk#10: Ex.4.2.1 (c); 2 (c); 3; 4;

Week #6: 21-25 Feb: Implicit Tangents

- Mon Nonlinear Gradients & Contours
  - 2nd Part HmWk#10: Ex.4.2.5 (c); 7
- Tue
  - **Due** HmWk #9
  - inClass Activity: Ch 4 Activity 2 Contours & Gradients
  - (The parallel lab Chapter 4 Lab 2 is optional and need not be put in the dropbox.)
  - Discuss HmWk #10
- Wed Review for Exam &
  - Discuss the steepest tangent idea in the eExam Ch4L3. This can help clarify the meaning of the gradient. This lab is to be solved outside class.
- Thu
  - **Due** HmWk #10
  - Review for Exam
- Fri **Exam #2**

Week #7: 28 Feb- Mar 4: Integration Weighted by Area & Exam #2-Ch 3&4

- Mon
  - HmWk #11: Ex.8.1.1 (a), (e); 2 (a); Ex.8.2.1; 2(a); 3(b); 4; 5
- Tue
  - inClass Activity: Ch 8 Act 1
  - Discuss HmWk #11
- Wed
  - HmWk #12: Ex.8.3.1(a), (b), (c); 2; 3(B) part vi; 4
- Thu
  - **Due** HmWk #11
  - inClass Activity Ch 8 Act 2
  - Discuss HmWk #12
- Fri
  - HmWk #13: Ex.8.3.7; 8; 12; 15; 17 -- WORK THIS HOMEWORK IN LECTURE

Week #8: 7-11 Mar: Polar Coordinates

- Mon
  - HmWk#13 Pt.2: Ex.13.2.1; 2; 3
- Tue
  - **Due** HmWk #12 (done in lecture)
  - inClass Activity: Ch 8 Act 3 (a sort of “wrap up” exercise)
  - Discuss HmWk #13 Pt.2
- Wed
  - HmWk #14: Ex.13.2.5; 6(c); 8; 13
- Thu
  - **Due** HmWk #13
  - inClass Activity Go over 13.2 Exercises 1-4, 6 b,d with students (no written work turned in).
  - Discuss HmWk #14
- Fri
  - Center of Gravity and Moment of Inertia worked in Lecture Chapter 8 Lab 3

Week #9: 21-25 Mar: Parametric Curves

- Mon

- HmWk #15: Ex.9.1.1(b - 3D & b-2D); 2(b-3D & b-2D); 3(b-3D & b-2D); 4 Ex.9.2.1
- Tue
  - **Due** HmWk #14
  - inClass Activity: inClass work: Ch 9 Act 1: Lines & Planes Ex.9.1.5, 6
  - Discuss HmWk #15
- Wed 3D curves & basic tangents
  - HmWk #16: Ex.9.4.1; 3; 5; Ex.9.6.1; 4(b);
- Thu
  - **Due** HmWk #15
  - inClass work Ch 9 Lab 2: **Animating the Pringle's Curve:** This is an important lab where you learn some *Mathematica* programming that you will use in the eExam: Chapter10Lab1.
    We will not collect Chapter9Lab2, but you need to use it later in Ch 10 Lab 1, so get the programming here, and save it.
  - Discuss HmWk #16
- Fri Smoothness & Chain Rule
  - 1st Part HmWk #17: Ex.9.6.9; 10; 14; 15
  - Test 3 suggested review: ICON in Quizzes/Surveys-Integration Skill Quizzes #4, 5 and 6-recommended, not required.

Week #10: 28 Mar-1 Apr: Product & Chain Rules for Vector Functions Exam #3-Ch 8&9&13

- Mon
  - Test 3 suggested review: ICON in Quizzes/Surveys-Integration Skill Quizzes #4, 5 and 6-recommended, not required.
  - HmWk#17 Part 2: Ex.9.7.1(d), (e); 2(b); Ex.9.8.3; 9; 10
- Tue
  - **Due** HmWk #16
  - inClass Activity: **Ch9Act3ParametricTangents**
  - Discuss HmWk #17
- Wed
  - Review for exam
- Thu
  - **Due** HmWk #17
  - Review for Exam
- Fri **Exam #3**
  - Exam in lecture

Week #11: 4-8 Apr Motion in Space & Vector Fields

- Mon: Velocity and Acceleration
  - HmWk #18: Ex.10.1.1, 2, 3, 4, 5 (b); 7; 11, 12, 13
- Tue
  - inClass Activity: (collected next discussion, so your write-up is neat)
  - **Ch 10 Act 1: Exercise 10.2.1** on the relation between speed and the geometry of velocity and acceleration
  - Discuss HmWk #18
- Wed: Sketching Basic Vector Fields- Ch11 Lab 1 in lecture, not collected
  - HmWk #19: Ex.11.1.1(a),(b),(c),(g),(h); 2; 3; 5
  - Lab work on your own (with your partner) **Chapter 10 Lab 1.** Use the animated "Pringle's" curve from two weeks ago. Due Sun before midnight.
- Thu
  - **Due** HmWk #18
  - inClass Activity

- Discuss HmWk #19
- Fri Flow Along and Across boundaries - Ch11 Lab 2 in lecture, not collected
  - 1st Part HmWk #20: Ex.11.4.1, 3; 6 (a), 7(a)

Week #12: 11-15 Apr Conservation of Energy

- Mon
  - 2nd Part HmWk #20: Ex.11.5.1; 2; 5; 6;
- Tue
  - **Due** HmWk #19
  - inClass Activity: Ch 11 Act 1 Geometric Flow
  - Discuss HmWk #20
- Wed
  - HmWk #21: Ex.12.1.3, 4(b), 5, 7, 10
- Thu
  - **Due** HmWk #20
  - inClass Activity: Ch12Act 1: Linear Divergence and Swirl
  - Discuss HmWk #21
- Fri
  - 1st Part HmWk #22: Ex.12.3.1, 2, 3, 4, 5

Week #13: 18-22 Apr Green's Theorem

- Mon
  - Final Remarks on 11.5 Conservative VFs, Hwk 20
  - HmWk #21: Ex.12.1.3, 4(b), 5, 7, 10
- Tue
  - Discuss HmWk #21
  - inClass Activity: Chapter 12 Lab 1 is due Thu, April 21 by 9 p.m.
- Wed
  - Discuss 1st Part HmWk #22 Ex.12.3.1, 2, 3(abc), 4, 5
  - Discuss 2nd Part HmWk#22 Ex.12.3.6, 7, 8, 9
- Thu
  - Discuss HmWk #22, Turn in Hwk #21
  - inClass Activity- Ch 12 Lab 1 questions, Ch 12 qsnts
- Fri
  - Ch 21 Infinite Series
  - Geometric series 21.1
  - Discuss HmWk# 23: Ex.21.1.1, 3, 4

Week #14: 25-29 Apr Infinite Series & Exam #4-Ch 10&11&12

- Mon
- 21.3 Classical Series
  - HmWk# 23: Ex.21.1.1, 3, 4
- Tue
  - inClass Activity-go over classical series, and 21.1 qsnts, turn in Hwk #22
  - Discuss HmWk #23
- Wed
  - Exam 4 Review questions-Ch 10, 11, 12
  - HmWk #24: Ex.21.3.1, 2, 5, 6(d), 7
  - 1st Part HmWk #25: Ex.21.4.1(c), 2, 3, 6(g) Due Thursday, May 5, Week #15
  - eLab Chapter 21 Lab 1 - Due Friday, May 6 by 9 p.m. Week #15

- Thu
  - **Due** Turn in HmWk #23
  - Discuss HmWk #24
  - Exam 4 review
- Fri Exam #4

Week #15: 2-6 May Power Series

- Mon
  - 1st Part HmWk #25: Ex.21.4.1(c), 2, 3, 6(g) Due Thursday, May 5 by Week #15
  - 2nd Part HmWk 25: Ex.21.5.1, 3, 5, 8, 10 Due Thursday, May 5 Week #15
- Tue
  - **Due** Turn in HmWk #24
  - Final Exam Review
  - Discuss HmWk #25
- Wed
  - Review
- Thu
  - **Due** Turn in HmWk #25
  - Review
- Fri
  - Review
  - Due Ch 21 eLab 1 by 9 p.m.

Final Exam-Cumulative All Chapters 1-4, 9-13, 21-Date TBA.

Do NOT buy tickets to leave EARLY until the U of I announces the schedule.

General University Policies

(click link for full details - basic information in this closed cell)

University regulations require that students be allowed to make up examinations which have been missed due to illness or other unavoidable circumstances. Students with mandatory religious obligations or UI authorized activities must discuss their absences with me as soon as possible. Religious obligations must be communicated within the first three weeks of classes.

Accommodations for Disabilities

UI is committed to an educational experience that is accessible to all students. A student may request academic accommodations for a disability (such as mental health, attention, learning, vision, and physical or health-related condition) by registering with Student Disability Services (SDS). The student is then responsible for discussing specific accommodations with the instructor. More information is at https://sds.studentlife.uiowa.edu/

A student seeking academic accommodations first must register with Student Disability Services. See http://www.uiowa.edu/~sds/ I will also try to accommodate less formal special situations. Speak with me privately about these matters.

Final Exam Policies

Final Examination Policies
The final exam schedule is announced around the fifth week of classes; students are responsible for knowing the date, time, and place of a final exam. Students should not make travel plans until knowing this information. No exams of any kind are allowed the week before finals. Visit https://registrar.uiowa.edu/final-examination-scheduling-policies.

Nondiscrimination in the Classroom

UI is committed to making the classroom a respectful and inclusive space for all people irrespective of their gender, sexual, racial, religious or other identities. Toward this goal, students are invited to optionally share their preferred names and pronouns with their

instructors and classmates. The University of Iowa prohibits discrimination and harassment against individuals on the basis of race, class, gender, sexual orientation, national origin, and other identity categories set forth in the University's Human Rights policy. For more information, contact the Office of Equal Opportunity and Diversity (diversity.uiowa.edu).

Sexual Harassment

Harassment or threats subvert the mission of the University, damage the well-being of students, faculty, and staff, and impede our ability to learn. Sexual harassment in particular will not be tolerated. Incidents of sexual harassment should be reported immediately. See the UI Comprehensive Guide on Sexual Harassment for assistance, definitions, and the full University policy.

Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community must uphold the UI mission and contribute to a safe environment that enhances learning. Incidents of sexual harassment must be reported immediately. For assistance, please see https://osmrc.uiowa.edu/.

Academic Fraud (cheating)

Plagiarism and other activities that result in a student presenting work that is not his or her own are academic fraud. Academic fraud is reported to the departmental DEO and then to the Associate Dean for Academic Programs and Services in the College of Liberal Arts and Sciences. http://www.clas.uiowa.edu/students/academic_handbook/index.shtml

The discussion instructors, T.A.s in the Math Lab, and I will do everything we can to help you do well in this course by honest methods, but cheating will be dealt with in the harshest way allowed by University regulation. **Don't Do It**

Suggestions or Complaints about Faculty or T.A.s

I welcome student suggestions aimed at making the course better.

Students have the right to make complaints and should first visit with the instructor, then with the course supervisor if appropriate and next with the departmental DEO.

All complaints must be made within six months of the incident.

See: http://www.clas.uiowa.edu/students/academic_handbook/index.shtml

The chain of command in this course is: graduate T. A., then Prof. Seaman, then the Math Department's Executive Officer.

COLLEGE OF LIBERAL ARTS AND SCIENCES Information for CLAS Undergraduates
Spring 2022

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 University 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

The University is prepared to make reasonable accommodations for students whose religious holy days coincide with their class-

room assignments, test schedules, and classroom attendance expectations. Students must notify their instructors in writing of any such Religious Holy Day conflicts or absences within the first few days of the semester or session, and no later than the third week of the semester. If the conflict or absence will occur within the first three weeks of the semester, the student should notify the instructor as soon as possible. See Operations Manual 8.2 Absences for Religious Holy Days for additional information.

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. Students must communicate with their instructors about the expected possibility of missing class as soon as possible. (For more information, see https://opsmanual.uiowa.edu/iv-8-absences-class%C2%A0-0).

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

The University is committed to providing an educational experience that is accessible to all students. 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 to the student. The student must provide a 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. Note that accommodations are not granted retroactively but from the time of the student's request to the instructor onward. Additional information can be found on the SDS website.

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 are 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 then with the course supervisor (if one is assigned), and next with the Chair of the department or program offering the course. 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 exception, 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 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 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.

NON-DISCRIMINATION STATEMENT

The University of Iowa prohibits discrimination in employment, educational programs, and activities on the basis of race, creed, color, religion, national origin, age, sex, pregnancy, disability, genetic information, status as a U.S. veteran, service in the U.S. military, sexual orientation, gender identity, associational preferences, or any other classification that deprives the person of consideration as an individual. The university also affirms its commitment to providing equal opportunities and equal access to university facilities. For additional information on nondiscrimination policies, contact the Director, Office of Institutional Equity, the University of Iowa, 202 Jessup Hall, Iowa City, IA 52242-1316, 319-335-0705, oie-ui@uiowa.edu. Students may share their pronouns and chosen/preferred names in MyUI, which is accessible to instructors and advisors.

SEXUAL HARASSMENT The University of Iowa prohibits all forms of sexual harassment, sexual misconduct, and related retaliation. The Policy on Sexual Harassment and Sexual Misconduct governs actions by students, faculty, staff and visitors. Incidents of sexual harassment or sexual misconduct can be reported to the Title IX and Gender Equity Office or to the Department of Public Safety. Students impacted by sexual harassment or sexual misconduct may be eligible for academic supportive measures and can learn more by contacting the Title IX and Gender Equity Office. Information about confidential resources can be found here. Watch the video for an explanation of these resources.