

## SYLLABUS SPRING 2014

The University of Iowa  
The College of Liberal Arts and Sciences  
Department of Mathematics  
14 Mac Lean Hall

### 22M:009:231 (MATH:1020:0231) Elementary Functions

**Class location:** 118 MLH

**Meeting time:** 2:30-3:20 PM, MTWF

Some of the policies relating to this course (such as the drop deadline) are governed by its administrative home, the College of Liberal Arts and Sciences, 120 Schaeffer Hall.

**Instructor:** Kevin Gerstle

Office: MLH 325C

E-mail: kevin-gerstle@uiowa.edu

Office hour: T: 10:30-11:30 AM and by appointment

Math Lab hours: M: 6:00-8:00 PM, Th: 9:30-10:30 AM

**Course Supervisor:** Olga Sokratova

Office: MLH 325J

Phone and email: (319) 335-3873; olga-sokratova@uiowa.edu

**DEO Contact Information:** Dan Anderson, 14 MLH

#### **Description of Course:**

This is a fast paced one-semester college precalculus course. This course is roughly equivalent to 22M:008 College Algebra and 22M:005 Trigonometry compressed into one semester. Topics include functions, coordinate systems; properties and graphs of algebraic, trigonometric, logarithmic, exponential functions; inverse trigonometric functions; and properties of lines, circles, and other conics. ***This course is not intended for those learning graphing, logarithms, exponentials, or trigonometry for the first time. If this is the case, come talk to me.***

#### **Course Goals:**

One goal of this course is that students will feel more comfortable examining a variety of functions in both equation form and in graphical settings. Students should be able to solve equations relating to these functions in many different contexts. It is also a goal that students will be better able to communicate using mathematics both in writing as well as orally in the classroom.

**Approved GE:** Quantitative or Formal Reasoning

#### **Requirements:**

Grade of C- or higher in 22M:008 (MATH:1005) or satisfactory score on math placement exam.

**Recommendations:**

It is strongly recommended that students whose math placement score is older than one year retake the math placement test for accurate placement and success in the course.

**Required Materials:**

1. Faires, DeFranza, PreCalculus, 5<sup>th</sup> Edition, Brook/Cole, 2012.
2. Enhanced WebAssign (EWA) (purchase of student access code required).

**Purchasing Options:**

1. Hardcopy of book + EWA access code: Available at Iowa Book or University Bookstore.
  2. EWA access code alone: Available at Iowa Book/University Bookstore or visit <http://www.webassign.net/> (follow instructions in "Getting Started with Enhanced WebAssign" available on ICON).
- Both options include the e-book.

**Optional Materials:**

Student Study Guide with Solutions, ISBN-10: 1111427364 | ISBN-13: 9781111427368.

This manual provides worked-out, step-by-step solutions to the odd-numbered problems in the text. This gives you the information you need to truly understand how these problems are solved.

**WebAssign (EWA): [www.webassign.net](http://www.webassign.net)**

1. You will use EWA to complete your homework assignments.
2. You will need internet access to use EWA.
3. Your purchase of EWA includes an online version of the text.
4. There is a 14 day grace period before you need to enter an access code.
5. Refer to "Getting Started with Enhanced WebAssign" available on ICON in the "Content" section.

**\*\*6. CLASS KEY: uiowa 0051 6638**

**You will need this to access the course on WebAssign.\*\***

**Material to be covered from Text:**

We'll cover all chapters from the textbook.

**ICON (<https://icon.uiowa.edu/>):**

Class announcements, due dates, and information pertaining to homework, quizzes, and tests will be posted regularly on ICON. I recommend you check it daily.

**Calculation of Grade:**

Attendance: 5%

Homework (on EWA): 20%

Quizzes: 20%

Midterm 1: 10%

Midterm 2: 10%

Midterm 3: 10%

Final Exam: 25%

### **Grading System:**

Grades will be assigned on a curve, which will be determined after the final examination. The curve **will not be lower than** the following: 93-100% will guarantee an A, 90-92.9 A-, 87-89.9 B+, 83-86.9 B, 80-82.9 B-, 77-79.9 C+, 73-76.9 C, 70-72.9 C-, 67-69.9 D+, 63-66.9 D, 60-62.9 D-, less than 60 - F.

### **Examinations:**

There will be three 50-minute midterm exams *during normal class time* and a cumulative final exam.

Midterm I: Friday, February 14

Midterm II: Wednesday, March 12

Midterm III: **Wednesday, April 16** (changed from before)

Final Exam: TBA, location TBA

Note that midterm exams will not be comprehensive and will cover material since the previous exam. Earlier material however may be required in order to understand the current material. The final exam will be comprehensive.

*\*\*For exam and quiz problems, you are expected to show your work. Answers with little or no explanation as to their origin may not receive full credit.*

Make-up exams will be given only under exceptional circumstances (e.g. illness, mandatory religious obligations, certain University activities, or unavoidable circumstances). All exams are closed-book, closed-notes.

### **A Word about the Date and Time of the Final Exam:**

The final examination date and time will be announced during the first half of the semester by the Registrar. 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.

### **Homework:**

Graded homework assignments will be completed with Enhanced WebAssign (EWA). A new homework will be assigned after each class and will be due each week, **generally on Wednesday**. Refer to EWA for due dates and instructions. Occasionally you will be given regular (paper) homework. It will be announced on ICON. Your two lowest homework scores will be dropped at the end of the semester.

Late assignments will generally not be accepted. If for some reason you need an extension on any homework assignment, let me know in advance!! Extensions will only be granted **after** the deadline only in the case of unforeseeable circumstances.

Note that EWA is case-sensitive, so make sure when typing answers that you type them out carefully!

Note that as a 4-credit hour course, you should expect to work at least 8 hours per week for this course outside of classtime.

**Quizzes:**

Quizzes will be given every week in class (usually on Friday). Quizzes will be based on the homework.

Quiz make-ups will be allowed only in the case of illness, mandatory religious obligations, certain University activities, or unavoidable circumstances. It is your responsibility to contact the instructor to arrange a time to make-up a missed quiz. Make-ups must be completed within one week of the missed quiz. **To qualify for a makeup in the case of an official university event (sporting event, field trip, etc.) your supervising professor/coach must confirm your intended participation via letter or e-mail BEFORE the day of the quiz.** To cover all other circumstances, the 2 lowest quiz scores will be dropped at the end of the semester.

**Attendance:**

Attendance will be taken regularly. Absences will only be excused for medical or family emergency reasons, a university-sanctioned field trip or the observance of a religious holiday. You are allowed to have three unexcused absences without a penalty; each subsequent unexcused absence will lower your grade by 0.5%. If you must miss a class, you are still responsible for the material discussed in class and for all the announcements made in class.

**Participation:**

I highly recommend that students make use of opportunities to ask questions in class or present problems at the board when offered. As with all math classes, the more you engage in class, the more you will likely get out of it.

**Calculators:**

Unless otherwise indicated, no calculators or other hand-held electronic devices are allowed on exams or quizzes. Exams and quizzes are written in such a way that a calculator is not necessary. You may use calculators on homework problems.

**Student Collaboration:**

The homework for this course is designed to help you master your knowledge related to the topics covered during lecture. As such, you may work on the homework problems with others or use online resources. However, please be aware that to master the skills needed for this class, practice is required and that to do well on the final exam you will need to work many of these problems multiple times without help. Be sure to test your knowledge by doing much of the homework on your own.

**Other Expectations of Student Performance:**

I expect that you will behave with respect to the other students in the class and to me. In particular this means turning off (or silencing) your cell phone. You should not be sending text messages or listening to audio devices during class. Those who are disruptive to the class will be asked to leave.

## **Math Lab**

You are highly encouraged to use the Mathematics Tutorial Laboratory located on the first floor of MacLean Hall. Mathematics teaching assistants will be on hand to discuss questions about your homework or general math concepts. The Math Lab operating hours are:

Monday-Thursday: 9:30am-4:30pm, 6-9pm

Friday: 9:30am-12:30pm

Sunday: 6-9pm

## **Resources for Students**

Writing Center: <http://www.uiowa.edu/~writingc/>

Speaking Center: <http://www.uiowa.edu/~rhetoric/centers/speaking.html>

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### Administrative Home

The College of Liberal Arts and Sciences is the administrative home of this course and governs matters such as the add/drop deadlines, the second-grade-only option, and other related issues. Different colleges may have different policies. Questions may be addressed to 120 Schaeffer Hall, or see the CLAS Academic Policies Handbook at <http://clas.uiowa.edu/students/handbook>.

### Electronic Communication

University policy specifies that students are responsible for all official correspondences sent to their University of Iowa e-mail address (@uiowa.edu). Faculty and students should use this account for correspondences ([Operations Manual, III.15.2, k.11](#)).

### Accommodations for Disabilities

A student seeking academic accommodations should first register with Student Disability Services and then meet privately with the course instructor to make particular arrangements. See [www.uiowa.edu/~sds/](http://www.uiowa.edu/~sds/) for more information.

### Academic Honesty

All CLAS students or students taking classes offered by CLAS have, in essence, agreed to the College's [Code of Academic Honesty](#): "I pledge to do my own academic work and to excel to the best of my abilities, upholding the [IOWA Challenge](#). I promise not to lie about my academic work, to cheat, or to steal the words or ideas of others; nor will I help fellow students to violate the Code of Academic Honesty." Any student committing academic misconduct is reported to the College and placed on disciplinary probation or may be suspended or expelled ([CLAS Academic Policies Handbook](#)).

### CLAS Final Examination Policies

The final examination schedule for each class is announced by the Registrar generally by the tenth day of classes. Final exams are offered only during the official final examination period. **No exams of any kind are allowed during the last week of classes.** All students should plan on being at the UI through the final examination period. Once the Registrar has announced the date, time, and location of each final exam, the complete schedule will be published on the Registrar's web site and will be shared with instructors and students. It is the student's responsibility to know the date, time, and place of a final exam.

### Making a Suggestion or a Complaint

Students with a suggestion or complaint should first visit with the instructor (and the course supervisor), and then with the departmental DEO. Complaints must be made within six months of the incident ([CLAS Academic Policies Handbook](#)).

### Understanding 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 have a responsibility to uphold this mission and to contribute to a safe environment that enhances learning. Incidents of sexual harassment should be reported immediately. See the UI [Comprehensive Guide on Sexual Harassment](#) for assistance, definitions, and the full University policy.

### Reacting Safely to Severe Weather

In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. For more information on Hawk Alert and the siren warning system, visit the [Department of Public Safety website](#)