

This is a template syllabus. This file contains course specific information, such as catalog description, goals and objectives, which does not change. **The parts highlighted in yellow are to be determined by the individual instructors.** The official syllabus for each section will be provided by the instructor in the beginning of the semester.

SYLLABUS FALL 20**

The University of Iowa

The College of Liberal Arts and Sciences

Department of Mathematics

MATH:1010: Trigonometry

Lectures: Time and Place

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.

Prerequisites: MATH:1005 with a grade of C- or higher or MATH:1340 with a grade of C- or higher or MATH:1380 with a grade of C- or higher or ALEKS score of 55 or higher or MPT Level 3 score of 9 or higher.

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.

NOT Approved for GE

Instructor:

Office hours: and by appointment

Math Lab hours:

Course Supervisor: Dr. Olga Sokratova

Office hours: TBA

Office location: 325 J MLH

Phone: 319-335-3873

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DEO Contact Information: Maggy Tomova, 14 MLH, maggy-tomova@uiowa.edu

Catalog Description of Course: This course is intended for students who are proficient in algebra, but whose background lacks trigonometry. Topics include trigonometric and inverse trigonometric functions, solutions of right and oblique triangles, trigonometric identities, trigonometric equations, trigonometric form of complex numbers, and vectors.

This is the second course in the two-semester precalculus sequence. After successfully completing MATH:1005 and MATH:1010 students are fully prepared for the trigonometry-based calculus courses MATH:1850, MATH:1460, or MATH:1550. Alternately, students may take MATH 1020 which covers the content of both MATH:1005 and MATH:1010 in a single course.

Objectives and Goals of the Course: The main goal of this course is to develop fluency in working with trigonometric functions and to prepare students for trigonometry-based Calculus. Particular objectives are to learn trigonometric functions of angles and circular functions, their graphs; solving right triangles; linear and angular speed, graphs of translated trigonometric functions, verifying trigonometric identities, sum and difference identities, double-angle and half-angle identities, inverse circular functions, solving trigonometric equations, solving acute and obtuse triangles; Laws of Sines and Cosines, vectors, polar form of complex numbers, De Moivre's theorem, polar and parametric equations.

Required text: (Check the current textbook from Department Webpage)

<https://math.uiowa.edu/undergraduate-program/course-information/book-list>

For 2019-2020: Young, Trigonometry, 4th edition with Wiley Plus

Purchasing options: In some semesters, Digital Access-ICON Direct textbooks may be available.

Required Materials:

- Text
- Wiley Plus (or other electronic HW program associated with the current textbook).

Note the following:

1. You will use Wiley Plus to complete your homework assignments.
2. You will need internet access to use Wiley Plus.
3. Your purchase of Wiley Plus includes an online version of the text.

Material to be covered from the Text: All 8 chapters of the textbook above will be covered in this course. **If the textbook changes, then still every topic in the "Goals and the Objectives" will be covered.**

ICON (<https://icon.uiowa.edu/>) Class announcements, due dates, and information pertaining to homework, quizzes, and tests will be posted regularly on ICON. It is recommended to check it daily.

Calculation of Grade: The grade is based on homework, weekly quizzes, 3 midterms, final exam, and attendance.

Grading: For each course, the instructor chooses a grading strategy appropriate to departmental and college guidelines, and the related discipline. Some of the recommended options include (but not limited to) the following:

With **criterion-reference grading**, students receive grades based on the quality of their work in relation to the criteria defined by the instructor and by the rubrics or models specifying the qualities of each grade. Some instructors may choose to adjust the scale (criteria) if a need arises.

Norm-based grading is used in the course which is based on how others in the class perform. This method is generally used in large lecture courses or coordinated multi-section courses. The distribution of grades may be based on CLAS recommendations.

Adjustable criterion-referenced grading is a combination of having some minimum expectations for each letter grade (scale) and use some limited curving if a need arises. The scale can be adjusted only to improve the letter grades of the students, that is, the scale will never go up during the semester.

Note that no A+ will be given in this course.

Examinations: There will be three 50-minute midterm exams and a cumulative final exam.

Midterm Exam I:

Date:

Coverage: Chapters

Midterm Exam II:

Date:

Coverage: Chapters

Midterm Exam III:

Date:

Coverage: Chapters.

Final Exam:

Date TBA Coverage: comprehensive

Classrooms: TBA

All exams are closed-book, closed-notes.

A Word about the Date and Time of the Final Exam: The date and time of every final examination is announced by the Registrar generally by the fifth week of the classes. **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 the final exam

Homework: Graded homework assignments will be completed with Wiley Plus. Refer to Wiley Plus for due dates and instructions. Occasionally you will be given regular (paper) homework. It will be announced on ICON.

Quizzes: Quizzes will be given every week. Quizzes will be based on the homework.

Please read CLAS Make-up policy for acceptable reasons below. It is your responsibility to contact your 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 contingencies the 2 lowest quiz scores will be dropped at the end of the semester.

Course Policies:

Make-up policies for exam and quizzes: As stated in CLAS webpage:

<https://clas.uiowa.edu/faculty/student-attendance-and-absences>:

*University policy requires that students be permitted to make up examinations missed because of illness, mandatory religious obligations, authorized UI activities, or unavoidable circumstances. An unavoidable circumstance is defined as an event beyond the student's control and often involves a serious and unexpected hospitalization, a family tragedy, or a related incident. Such circumstances **do not include** attendance at a wedding, a family vacation, obligations related to work or other such matters. The instructor of a student participating in an authorized UI activity is sent a statement generally by email from the UI official in charge of the event before the absence occurs; this statement will include the specific date and time that the student will miss class. Activities related to employment, fraternities or sororities, or volunteer activities are not UI authorized activities.*

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. If you miss a class, you are still responsible for the material discussed in class and for all the announcements made in class.

Participation in class discussions: I highly recommend that students make use of opportunities to ask questions in class or present problems at the board when offered.

Timely completion of assignments: **There will be 20% penalty per day for late assignments.**

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.

Student Collaboration: Student collaboration is NOT permitted on exams. Any attempt to collaborate during exams will result in a 0 score on that test. **The instructors will specify if collaboration is allowed on assignments and, if so, the expectations for a student's individual performance.**

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. All other graded work for this class (quizzes and tests) must be completed individually and any form of cheating will be reported. **Please read the student collaboration rules above.**

Other Expectations of Student Performance: Expect to spend at least 6 hours weekly outside of the classroom doing the assignments. More time may be needed to prepare for exams.

Classroom behavior: 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, browsing internet, or listening to your iPod during class.

Resources for Students

Students will find the Writing Center and the Speaking Center very useful for this course:

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

Speaking Center: <http://clas.uiowa.edu/rhetoric/for-students/speaking-center>

Math Tutorial Lab: 125 MLH <http://www.math.uiowa.edu/math-tutorial-lab>

Math Tutorial Lab: The Math Tutorial Lab offers free tutorial services for the course material. Participation is optional, but strongly recommended. It is located in 125 MLH and it is staffed by teaching assistants from the Department of Mathematics.

Notes to the Students:

1. All students in the College have specific rights and responsibilities. You have the right to adjudication of any complaints you have about classroom activities or instructor actions. Information on these procedures and your responsibilities is available in the Schedule of Courses and on-line in the College's Student Academic Handbook, (<https://clas.uiowa.edu/students/handbook>) In summary, first see the person you wish to complain about, and then see his/her immediate supervisor. The chain is: graduate or undergraduate assistants, then **Prof. XX**, then the Chairman of the Department of Mathematics **Prof. YY**, and then an appropriate Dean. The Department of Mathematics has offices in 14 MLH (MacLean Hall). To make an appointment to talk to the chairman of the department call 335-0714 or contact the departmental secretary in 14 MLH.
2. We would like to hear from anyone who has a disability which may require some modification of seating, testing, or other class requirements so that appropriate arrangements may be made. Please contact your lecturer during his office hours, in the beginning of the semester and far in advance of the exams. You should notify the Office of Student Disability Services, SDS and obtain the form(s) needed. The necessary modifications will be made available to you after the SDS processes and approves your request.
3. We are planning to use ICON for posting grades and other course material. Also, some announcements may be e-mailed through ICON to your UI e-mail. Check ICON and your UI e-mail regularly, and make sure that UI has your correct e-mail address.
4. This course plan may be modified during the semester. All changes will be announced in class in advance. It is solely the student's responsibility to be informed of such announced changes.

CLAS Teaching Policies & Resources — Syllabus Insert

<https://clas.uiowa.edu/faculty/teaching-policies-resources-syllabus-insert>