University of Connecticut UCONN

Dr. Schwendner
MAT1060Q Z81

Precalculus / Spring 2022
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COURSE: Precalculus, 3 credits, T/Th, 9^{30}-10^{45}am. Textbook: ***Precalculus 10ed***, Larson

OBJECTIVES: Precalculus is a preparation for calculus which includes a thorough review of algebra. Emphasis will be on functions and their applications; in particular, polynomials, rational functions, exponentials, logarithms, and trigonometric functions.

PREREQUISITES: Recommended preparation:

- ☑ A qualifying score of 17 on the mathematics placement assessment (MPA) unless you began attending UConn prior to Fall 2016. Students who fail to achieve this minimum score are required to spend time on the preparatory and learning modules before re-taking the MPA or register for a lower-level Mathematics course.
- ☑ Not open for credit to students who have passed MATH 1120, 1125Q, or 1131Q. Students may not receive credit for this course and MATH 1040Q.
- ☑ A strong understanding of algebra is required for this course. This is neither an introductory nor an Intermediate Algebra class. If you've taken Precalculus before, be warned — **this course is harder**.

COURSE MATERIALS: ***Precalculus 10ed*, by Larson (Required textbook)**. You can buy the textbook from the UConn Bookstore or you can purchase it from the publisher.

You will need a **WebAssign access code** to access your homework assignments. When you buy the textbook, the code will come bundled with the textbook. The unbundled version of the book (that is, the book without a WebAssign access code) can be obtained in many places, but the cost of buying the unbundled text and the WebAssign code separately will almost certainly be significantly **greater**.

IMPORTANT!
There are two ways to purchase the text and the WebAssign access code:

1. BEST VALUE: Get the text and WebAssign access code bundled together at the UConn Bookstore. Together, the book and online homework code (with e-book included) will cost $80.

2. **NOT Recommended**: Get the text separately from anywhere (or don't get it at all, if you want to use the e-book exclusively), and buy the WebAssign access code when you access your homework through HuskyCT. Using this option, the WebAssign code alone (including the e-book) will cost $100, and your code (and e-book) will last only one semester. The first option lets you use your access code for the life of the edition of the textbook.

There is **only ONE way to register for WebAssign access**. Once the semester officially begins, simply log into your HuskyCT account (lms.uconn.edu), navigate to my Math 1060Q course, then follow the link on the left-hand side for *WebAssign Homework*. *When logging into WebAssign (through HuskyCT),* ***do not use Internet Explorer or Safari, use Firefox or Chrome.***

You will have **two weeks of free access** to WebAssign, so you can get started right away in case you need some time to arrange to buy textbook with the access code.

Graphing calculators: TI 82, 83, 84, 84 plus, 85 or 86 are **NOT permitted** on exams. Cellphone calculators are not allowed.

EXPECTATIONS:

- ☑ I expect you to do most of your learning outside of the classroom.
- ☑ You should expect to spend between 7-10 hours per week re-reading the lecture notes, reviewing worked-out textbook problems, studying, and working on this material outside of class.
- ☑ Mathematics is learned by doing problems.
- ☑ We will not have time in class for you to do a lot of mathematics yourself. However, I do expect you to come to class and participate actively in class discussions.
- ☑ If you miss a class, I expect you to find out what was covered. You are responsible for learning the missed material.
- ☑ Turn off your cellphones while in class.

HOMEWORK: This is work you do outside of class. We will devote little class time to discussing homework problems. Homework questions can be addressed during office hours or with the tutoring center. I encourage you to put a lot of effort into figuring out a problem before consulting assistance. Homework may be collected and graded periodically. Additional take-home problems sets may also be assigned (and graded) throughout the semester.

WEBASSIGN HOMEWORK: To access the WebAssign homework *you will have to go through HuskyCT single sign-on*. On the course page for Math 1060Q, you will find a link to do your homework using WebAssign. There will usually be 2-3 homework assignments per week. Each assignment will be made available on WebAssign several days before the section is covered in class. There is a due date for each assignment. Extensions to homeworks is not allowed. **You will get five attempts for each question that is not multiple choice; the exact number of attempts for multiple choice questions will depend on the number of choices.** After each attempt, you will be told whether your answer is correct or not. If you are not able to get the correct answer after your initial attempts, we recommend that you seek help from the tutoring center, a tutor, or another student. When accessing your online homework, use **Firefox or Chrome as your browser**; there are problems that can occur if you use Internet Explorer or Safari. WebAssign customer service number is 800.354-9706.

TUTORING: Math tutors are available through the Academic Q-Center.

LECTURE NOTES: Lecture notes are on HuskyCT. It's wise to come to class with these notes.

EXAMS/GRADING: Performance on WebAssign homework, quizzes, exams, and a cumulative final exam will determine your overall course grade. Problems will test your understanding of the **principles, process,** and **concepts,** versus repeating what you see in class. There will be new problems on quizzes/exams.

Quizzes/exams will be closed notes and closed book. No cellphones are allowed during tests. There will be **no make-ups, no re-takes, no papers, etc**. You are responsible to take the quizzes/exams on the scheduled date. Extra credit is **not** given.

Depending on the course modality, quizzes/exams may be remote and administered on HuskyCT/Blackboard. Some questions will be multiple-choice, free-response and file

response. File response questions will require you to submit your detailed work as part of the problem. File response questions will require you to (1) take an image of all your work, (2) combine/batch all the images for that problem and create ONE PDF file (only PDF file attachments will be allowed (no pns, docx, jpeg, etc.)), (3) email the single PDF file to your UConn email account and then (4) attach your PDF work to that specific quiz/exam question. One such free application that works well is CamScanner.

Your final grade will be determined as follows:

Test	***Value***	***Target***
WebAssign HomeWorks	20%	Various
Your top 4 quiz grades	20%	See plan
2 Exams	30%	See plan
Comprehensive final	30%	Week of 5/4

FINAL EXAM: In accordance with UConn policy, students *are required to be available for their final exam* and/or complete any assessment during the time stated. If you have a conflict with this time you must obtain official permission to schedule a make-up exam with the Dean of Students. If permission is granted, the Dean of Students will notify the instructor. Please note that vacations, previously purchased tickets or reservations, graduations, social events, misreading the assessment schedule, and oversleeping are not viable reasons for rescheduling a final

ACADEMIC INTEGRITY POLICY: A fundamental tenet of all educational institutions is academic honesty: work depends upon respect for and acknowledgment of the work and ideas of others. Misrepresenting someone else's work as one's own work is a serious offense in any academic setting and it will not be condoned.

Academic misconduct includes, but is not limited to, providing, sharing, or receiving assistance in a manner not authorized by the instructor in the creation of work to be submitted for academic evaluation (e.g., papers, projects, quizzes, tests – whether online or in class), presenting as one's own any ideas, words, or calculations of another for academic evaluation: doing unauthorized academic work for which another person will receive credit or be evaluated, using unauthorized aids in preparing work for evaluation (e.g., unauthorized calculators, programs or formulas loaded into your calculator, etc.); and presenting the same or substantially the same papers or projects in two or more course without the explicit permission of the instructors involved.

A student who knowingly assists another student in committing an act of academic misconduct shall be equally accountable for the violation, and shall be subject to the sanctions and other remedies described in The Student Code.

Sanctions shall include, but not limited to, a letter sent to the Dean of Students of the University, a grade of 0 on the assignment, quiz or exam, a grade of F for the course.

This course expects all students to act in accordance with the Guidelines for Academic Integrity at the University of Connecticut. Because questions of intellectual property are important to the field of this course, we will discuss academic honesty as a topic and not just a policy. If you have questions about academic integrity or intellectual property, you should consult with your instructor. Additionally, consult UConn's *guidelines for academic integrity*.

STUDENT COURSE CONDUCT: To respect everyone's right to a productive learning environment,

you do not want to distract yourself or your classmates. Please refrain from disruptive activities during lecture and discussion section. This includes browsing the internet. Please turn *off* all personal electronic gadgets, including smartphones, before entering a classroom (Except calculators and, for lectures, clickers). You may not use a laptop during class unless you show me that you can take notes electronically on advanced math in real time. On a positive note do feel free to ask questions!

COPYRIGHT LAWS: My lectures, notes, handouts, and displays are protected by state common law and federal copyright law. They are my own original expression and I've recorded them prior or during my lecture to ensure that I obtain copyright protection. Students are authorized to take notes in my class; however, this authorization extends only to making one set of notes for your own personal use and no other use. I will inform you as to whether you are authorized to record my lectures at the beginning of each semester. If you are so authorized to record my lectures, you may not copy this recording or any other material, provide copies of either to anyone else, or make a commercial use of them without prior permission from me.

POLICY AGAINST DISCRIMINATION, HARASSMENT AND RELATED INTERPERSONAL VIOLENCE: The University is committed to maintaining an environment free of discrimination or discriminatory harassment directed toward any person or group within its community – students, employees, or visitors. Academic and professional excellence can flourish only when each member of our community is assured an atmosphere of mutual respect. All members of the University community are responsible for the maintenance of an academic and work environment in which people are free to learn and work without fear of discrimination or discriminatory harassment. In addition, inappropriate amorous relationships can undermine the University's mission when those in positions of authority abuse or appear to abuse their authority. To that end, and in accordance with federal and state law, the University prohibits discrimination and discriminatory harassment, as well as inappropriate amorous relationships, and such behavior will be met with appropriate disciplinary action, up to and including dismissal from the University. Additionally, to protect the campus community, all non-confidential University employees (including faculty) are required to report sexual assaults, intimate partner violence, and/or stalking involving a student that they witness or are told about to the Office of Institutional Equity (OIE). Please be aware that while the information you provide will remain private, it will not be confidential and will be shared with university officials who can help.

An exception to this reporting exists if students disclose information as a part of coursework submitted to an instructor in connection with a course assignment. Even in the absence of such obligation, all Employees are encouraged to contact OIE if they become aware of information that suggests a safety risk to the University community or any member thereof. The University takes all reports with the utmost seriousness. *More information, including resources and reporting options, is available at equity.uconn.edu and titleix.uconn.edu.*

STUDENTS WITH DISABILITIES: The University of Connecticut is committed to protecting the rights of individuals with disabilities and assuring that the learning environment is accessible. If you anticipate or experience physical or academic barriers based on disability or pregnancy, please let me know immediately so that we can discuss options. Students who require accommodations should contact the Center for Students with Disabilities, Wilbur Cross Building Room 204, (860) 486-2020, or *http://csd.uconn.edu/*.

SEXUAL ASSAULT REPORTING POLICY: To protect the campus community, all non-confidential University employees (including faculty) are required to report assaults they witness or are

told about to the Office of Diversity & Equity under the Sexual Assault Response Policy. The University takes all reports with the utmost seriousness. Please be aware that while the information you provide will remain private, it will not be confidential and will be shared with university officials who can help. More information is available at sexualviolence.uconn.edu.

STATEMENT ON ABSENCES FROM CLASS DUE TO RELIGIOUS OBSERVANCES AND EXTRA-CURRICULAR ACTIVITIES: Faculty and instructors are strongly encouraged to make reasonable accommodations in response to student requests to complete work missed by absence resulting from religious observances or participation in extra-curricular activities that enrich their experience, support their scholarly development, and benefit the university community. Examples include participation in scholarly presentations, performing arts, and intercollegiate sports, when the participation is at the request of, or coordinated by, a university official. Such accommodations should be made in ways that do not dilute or preclude the requirements or learning outcomes for the course. Students anticipating such a conflict should inform their instructor in writing within the first three weeks of the semester, and prior to the anticipated absence, and should take the initiative to work out with the instructor a schedule for making up missed work. For conflicts with final examinations, students should contact the Office of the Dean of Students.

SOME TIPS:

1. If you've taken Precalculus before, be warned — **this course is harder and moves quickly**. We will cover more topics, and it will be more in-depth, than what you've done before. This course is only recommended for students going on to take calculus and students who have scored above a 17 on the ALEKS assessment exam.
2. Don't miss class! Each day builds on the previous days, so if you miss class, you get behind very quickly. If you do get sick or must miss class, talk to your classmates and instructor to catch up before the next class. Refer to the course plan to understand what topics are covered in lecture.
3. Seek help *early* if you think you may need it! Some great resources for help are your instructor's office hours, the tutoring center, a tutor, and other students.

WEEK	DATES	SECTIONS COVERED & WEBASSIGN	QUIZZES, EXAMS	TOPICS
1	1/18 1/20	1.1 1.2 1.3 1.4		Rectangular Coordinates Graphs of Equations Linear Equations in Two Variables Functions
2	1/25 1/27	1.5 1.5, 1.6	**Quiz 1**	Analyzing Graphs of Functions Analyzing Graphs of Fcns / Parent Fcns
3	2/1 2/3	1.7 1.8		Transformations of Functions Combinations of Fcn: Composite Fcns
4	2/8 2/10	1.9, 2.1 2.2	**Quiz 2**	Inverse Fcn / Quadratic Fcn & Models Polynomial Functions of Higher Degree
5	2/15 2/17	2.2 2.6		Polynomial Functions of Higher Degree Rational Functions
6	2/22 2/24	3.1 3.2A	**Exam 1**	Exponential Fcns and Their Graph Logarithmic Fcns and Their Graphs Covers section 1.1-1.9, 2.1,2.2,2.6
7	3/1 3/3	3.2B 3.3 3.4		Logarithmic Functions / Graphs Properties of Logarithms Exp & Log Equations
8	3/8 3/10	3.5 4.1 4.2A	**Quiz 3**	Exponential and Logarithmic Models Radian and Degree Measure Trigonometric Functions: The Unit Circle
9	3/15 3/17			Spring Break
10	3/22 3/24	4.2B, 4.3 4.4		Right Triangle Trigonometry Trigonometric Functions of Any Angle
11	3/29 3/31	4.4 4.5		Trigonometric Functions of Any Angle Graphs of Sine and Cosine Functions
12	4/5 4/7	4.6 4.7	**Quiz 4**	Graphs of Other Trigonometric Functions Inverse Trigonometric Functions
13	4/12 4/14	4.8 5.1	**Exam 2**	Applications and Models / Using Fundamental Identities Covers section 3.1-3.5, 4.1-4.8
14	4/19 4/21	5.2 5.3		Using Fundamental Identities Verifying Trigonometric Identifies / Solving Trigonometric Equations
15	4/26 4/28		**Quiz 5**	Catch-up Day
16	week of 5/2		**FINAL**	