University of Connecticut UCONN

Dr. Schwendner
MAT1060Q 802

Precalculus / Spring 2025
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COURSE: Precalculus, 3 credits, T/Th, 11^{15}-12^{30} am. Textbook: ***Precalculus 10e***, Larson.
ISBN 978-1-337-27107-3. Office Hours: T/Th, 8-9^{15}am, room 139

OBJECTIVES: Precalculus is a very rigorous 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 will be studied extensively.

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 mandatory for this course. This course is neither an introductory nor an Intermediate Algebra class. If you've taken Precalculus before, be warned — **this course is harder and more comprehensive.**

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. If you are participating in the **Husky Book Bundle Program,** you do not need to purchase anything. The digital required materials for this course have been integrated with HuskyCT and can be found in the Course Materials link in your HuskyCT course. Please sign into HuskyCT to access your course and course materials. If you have **opted out** of the Husky Book Bundle Program, you can buy the textbook from the UConn Bookstore. You will need a **WebAssign access code** to access your homework assignments. When you buy the textbook from the bookstore, the WebAssign code will come bundled with the textbook. You will have **two weeks of free access** to WebAssign, which includes the e-book, so you can get started right away in case you need some time to arrange to buy textbook with the access code. There is **only ONE way to register for and access WebAssign**. Once the semester officially begins, simply log into your HuskyCT account (lms.uconn.edu), navigate to the page for Math 1060Q, then follow the link for WebAssign Homework. *When logging into WebAssign (through HuskyCT), **do not use Internet Explorer or Safari; rather, use Firefox or Chrome.***

EXPECTATIONS:

- ☑ Most of your learning will take place outside of the classroom.
- ☑ 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 must go through HuskyCT single sign-on*. On the HuskyCT (Blackboard) course page for Math 1060Q, you will find a link to do your homework in WebAssign. There will usually be 1-3 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 are 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. You will have **two weeks of free access** to WebAssign, which includes the e-book, so you can get started right away in case you need some time to arrange to buy a textbook with the access code.

Note: 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.

CALCULATORS: Graphing calculators: TI 82, 83, 84, 84 plus, 85 or 86 are **NOT permitted** on exams. Cellphone calculators are never allowed. A five-function calculator I (x, /, + , -, ^) is always allowed.

LECTURE NOTES: Lecture notes are on HuskyCT.

EXAMS/GRADING: Performance on WebAssign homeworks, quizzes, exams, and 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. New problems will be on all exams, with the goal of improving your analytic problem solving and thinking skills.

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. Missed exams will be scored as a 0.

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 5/6

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.

Note: A grade of 40 or below on the final exam will be an automatic failure in this course. A grade above 40 does not guarantee a passing grade in the class.

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 Academic, Scholarly, and Professional Integrity and Misconduct Policy.

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.

MATHEMATICA AND WOLFRAM ALPHA PRO: These tools are available at no charge to UConn students. They are useful for solving technical problems, obtaining step-by-step solutions, and much more. To get access, go to wolfram.com/siteinfo and enter your UConn email. Learn how to use Mathematica at wolfram.com/wolfram-u/

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.

FINAL EXAM: Per University policy, all requests to reschedule or make up the final exam must be submitted to the Dean of Students for approval. Please note that vacations, previously purchased tickets or reservations, social events, misreading the exam schedule and over-sleeping are not viable excuses for missing a final exam. If you think that your situation warrants permission to reschedule, please contact the Dean of Students Office with any questions. Thank you in advance for your cooperation.

SOME TIPS:

1. If you've taken Precalculus before, be warned — **this course is harder and moves very 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 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.

MATH 1060Q SPRING 2025 COURSE PLAN (SUBJECT TO CHANGE)

WEEK	DATES	SECTIONS COVERED & WEBASSIGN	QUIZZES, EXAMS	TOPICS
1	1/21 1/23	Intro, 1.1 1.2/1.3		Rectangular Coordinates Graphs of Equations
2	1/28 1/30	1.3/1.4 1.5		Linear Equations in Two Variables Fcns Analyzing Graphs of Functions
3	2/4 2/6	1.5, 1.6 1.7	**Quiz 1**	Analyzing Graphs of Fcns / Parent Fcns Transformations of Functions
4	2/11 2/13	1.7, 1.8 1.9		Transformations of Functions Combinations of Fcn: Composite Fcns
5	2/18 2/20	2.1 2.2	**Quiz 2**	Inverse of Fcn / Quad Fcns & Models Polynomial Fcns of Higher Degree
6	2/25 2/27	2.2 2.6		Polynomial Functions of Higher Degree Rational Functions
7	3/4 3/6	3.1, 3.2A	**Exam 1**	Exponential Fcns & Graphs Log Fcns & Graphs Covers sections 1.1-1.9, 2.1,2.2,2.6
8	3/11 3/13	3.2B, 3.3 3.4		Logarithmic Functions / Graphs / Logs Exp & Log Equations
	3/18 3/20			Spring Break
9	3/25 3/27	3.5, 4.1 4.2A	**Quiz 3**	Exponential and Logarithmic Models Radian and Degree Measure Trigonometric Functions: The Unit Circle
10	4/1 4/3	4.2B, 4.3 4.4		Right Triangle Trigonometry Trigonometric Functions of Any Angle
11	4/8 4/10	4.4 4.5		Right Triangle Trigonometry Graphs of Sine and Cosine Functions
12	4/15 4/17	4.6 4.7,4.8	**Quiz 4**	Graphs of Other Trig Functions Inverse Trig Functions/ Applications
13	4/22 4/24	5.1,5.2	**Exam 2**	Fundamental Identities / Using Fundamental Identities Covers section 3.1-3.5, 4.1-4.8
14	4/29 5/1	5.3 5.4	**Quiz 5**	Verifying Trigonometric Identifies Solving Trig Equations
15	week of 5/6		**FINAL**	