

Course Information

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Office: Natural Sciences Building 113
Office hours: Mon 13–15:30, Tue 11–12, Thurs 14:30–15:30, and by appointment

Course Websites:

https://blackboard.louisville.edu/webapps/uofl-redirect-bb_bb60/course_redirect.jsp?course_id=MATH-190-75-4182
<http://aleph.math.louisville.edu/teaching/2018SP-190>

Lecture: MW 17:30–19:15 in Natural Sciences 108.

Prerequisites: Appropriate placement score or equivalent coursework.

Description: MATH 190 normally prepares student for MATH 205. Advanced topics in algebraic and rational expressions, factoring, exponents, and radicals; theory of equations and inequalities; functions. Analytic geometry, trigonometry.

Special notes: Credit may not be received for both MATH 190 and any of MATH 111, MATH 112, or ENGR 190.

Textbook: *Precalculus: Mathematics for Calculus* by James Stewart, Lothar Redlin, and Saleem Watson, seventh edition. Access to this book as an eBook is provided through WebAssign free with your purchase of WebAssign access for this class and it is *not* necessary to purchase a physical edition of the text.

WebAssign: You will need access to WebAssign in order to complete the assignments in this class. Access codes can either be purchased at the bookstore, or through other online vendors, or directly from WebAssign itself. Signing up for this class will require visiting the website <https://webassign.com>, clicking the “ENTER CLASS KEY” button, and entering the code louisville 7101 1773.

Learning Goals: In this class, we will learn to construct and manipulate functions, specifically polynomial, rational, exponential, logarithmic, and trigonometric functions. This course fulfills a General Education requirement in Mathematics. One goal of the course will be to practice and develop critical thinking skills. Key elements of critical thinking include: identifying the question or problem, developing an abstraction or model, and drawing practical conclusions based on theoretical analysis.

Responsibilities: You are responsible for attending class on a regular basis and maintaining comprehension of the scheduled class objectives for each day. You are expected to be active participants in class, to attend quizzes and examinations, and to complete assignments promptly.

Special needs: Any scheduled absence during a quiz or examination, or any other special needs, *must* be brought to my attention during the first week of class. Unscheduled absences will be handled on a case-by-case basis, with exceptions generally made only for documented emergencies.

Calculators: Calculators are unnecessary for any in-class work, and may not be used on quizzes or examinations. Calculators will also be unnecessary for most homework problems, but may be used at your discretion. For any calculation more complicated than simple arithmetic, you are expected to show your work.

Honesty: There are many resources available to help you succeed in this class, including consultation during office hours, secondary textbooks, and cooperation with other students. It is important, however, that all papers handed in be the result of your individual comprehension of the course material. Duplication of others' work is both a disservice to your own education and a serious violation of the university's academic honesty policy.

Grades: Homework, completed on WebAssign, will account for 10% of your grade. Quizzes will be based on the homework problems, and will collectively account for 15% of your grade. The three midterm examinations will each be worth 15%, and the final examination is worth 30%. A 90% overall guarantees a grade of A–, 80% guarantees a B–, and 70% guarantees a C–.

Title IX/Clery Act Notification: Sexual misconduct (including sexual harassment, sexual assault, and any other nonconsensual behavior of a sexual nature) and sex discrimination violate University policies. Students experiencing such behavior may obtain confidential support from the PEACC Program (502-852-2663), Counseling Center (502-852-6585), and Campus Health Services (502-852-6479). To report sexual misconduct or sex discrimination, contact the Dean of Students (502-852-5787) or University of Louisville Police (502-852-6111). Disclosure to University faculty or instructors of sexual misconduct, domestic violence, dating violence, or sex discrimination occurring on campus, in a University-sponsored program, or involving a campus visitor or University student or employee (whether current or former) is not confidential under Title IX. Faculty and instructors must forward such reports, including names and circumstances, to the University's Title IX officer. For more information, see the Sexual Misconduct Resource Guide (<http://louisville.edu/hr/employeerelations/sexual-misconduct-brochure>).

Changes: The syllabus is subject to change. Changes will be announced in class and updated online.

Week	Monday	Wednesday	Friday
1	January 8th Sections 1.1–1.3	January 10th Sections 1.4–1.7	
2	January 15th MLK Day	January 17th Sections 1.8–2.1 Quiz #1	
3	January 22nd Sections 2.2–2.3	January 24th Sections 2.4–2.5 Quiz #2	
4	January 29th Sections 2.5–2.6	January 31st Sections 2.6–2.7 Quiz #3	
5	February 5th Sections 2.8–3.1	February 7th Exam #1	
6	February 12th Sections 3.2–3.3	February 14th Sections 3.3–3.4 Quiz #4	
7	February 19th Sections 3.5–3.6	February 21st Section 3.7 Quiz #5	
8	February 26th Sections 4.1–4.2	February 28th Exam #2	
9	March 5th Sections 4.3–4.4	March 7th Withdrawl date Sections 4.5–4.6 Quiz #6	
10	March 12th–16th Spring break		
11	March 19th Section 5.1	March 21st Sections 5.2–5.3 Quiz #7	
12	March 26th Sections 5.4–5.5	March 28th Sections 6.1–6.2 Quiz #8	
13	April 2nd Sections 6.3–6.4	April 4th Sections 6.5 Quiz #9	
14	April 9th Section 6.6	April 11th Exam #3	
15	April 16th Section 7.1–7.2	April 18th Section 7.3 Quiz #10	
16	April 23rd Section 7.4	April 25th No class	April 27th Final exam, 17:30–20:00