

Course Information

Instructor:	<i>Name:</i>	Jake Wildstrom
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	<i>Office:</i>	Natural Sciences Building 231
	<i>Office hours:</i>	T13:00–14:00, W15:00–16:00, R14:00–15:00
	<i>Alternative office hours:</i>	T14:00–15:00, W14:00–15:00, R13:00–14:00 or by appt.

Course Websites:

http://blackboard.louisville.edu/bin/redirect_temp.pl?course_id=MATH%2D190%2D75%2D4102

<http://aleph.math.louisville.edu/teaching/2010SP-190>

Lecture: TR 17:30–19:15 in Natural Sciences Building 317

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 either MATH 111, MATH 112, or ENGR 190. MATH 190 is a general education course and may not be taken pass/fail.

Textbook: *Precalculus: Mathematics for Calculus* by James Stewart, Lothar Redlin, and Saleem Watson, fifth edition.

Objectives: In this class, we will learn to construct and manipulate functions, specifically polynomial, rational, exponential, logarithmic, and trigonometric functions. We will use these functions for modeling and problem-solving.

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, and to attend quizzes and examinations. Assignments are provided for your benefit and you are expected to work on them for your own benefit in order to grasp concepts for the course.

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 is ungraded and is provided for study purposes. Quizzes will be based on the homework problems, and will account for one-sixth of your grade. The three midterm examinations will each be worth one-sixth, and the final examination is worth one-third. A 90% overall guarantees a grade of A–, 80% guarantees a B–, and 70% guarantees a C–.

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

Course Schedule

This schedule is tentative and subject to change.

Week	Tuesday	Thursday
1		January 7 Sections 1.1–1.6
2	January 12 Sections 1.6–2.1 Add/drop day	January 14 Sections 2.2–2.3 Quiz #1
3	January 19 Sections 2.4–2.5	January 21 Sections 2.7–2.8 Quiz #2
4	January 26 Sections 3.1–3.2	January 28 Sections 3.3–3.4 Quiz #3
5	February 2 Sections 3.5–3.6	February 4 Exam #1
6	February 9 Sections 4.1–4.3	February 11 Sections 4.4–4.5
7	February 16 Sections 5.1–5.2	February 18 Sections 5.3–5.4 Quiz #4
8	February 23 Section 5.4–5.5 Withdrawl day	February 25 Sections 6.1–6.2 Quiz #5
9	March 2 Section 6.3	March 4 Sections 6.4–6.5 Quiz #6
10	March 9 Review/Catchup	March 11 Exam #2
11	March 15–March 19 Spring break	
12	March 23 Section 7.1–7.2	March 25 Bullitt lecture
13	March 30 Section 7.2–7.3	April 1 Section 7.4 Quiz #7
14	April 6 Section 7.5	April 8 Section 11.1–11.2 Quiz #8
15	April 13 Section 11.3	April 15 Exam #3
16	April 20 Review/Catchup	April 22 Reading day
17	Thursday, April 29 Final exam, 17:30–20:00	

Problem Sets through Quiz #1

Boldface problems are particularly advanced and will test problem-solving skills beyond the core of the course material.

- Complete by *January 14* in preparation for *Quiz #1*:
 - *Section 1.1*: 15, 17, 19, 21, 23, 25, 27, 33, 41, 43, 45, 47, 49, 51, 61, 63.
 - *Section 1.2*: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, **25**, 27, 29, 31, 33, 35, 37, 39, 41, **43**, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69.
 - *Section 1.3*: 1, 3, 5, 7, 9, 11, 13, 15, **17**, 19, 21, 23, 25, 27, 29, 31, **33**, **35**, **37**, 39, 49, 51, **53**, **61**, **63**, **65**, 71, 73, 75, 77, 79, 81.
 - *Section 1.4*: 1, 3, 5, 7, 9, 11, 13, 15, 17, **19**, 21, 27, 29, 31, 33, 35, 37, 47, 51, 53, 61.
 - *Section 1.5*: 5, 7, 9, 11, 13, 15, **17**, **21**, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 53, 55, 57, 59.
 - *Section 1.6*: 1, 3, 5, 7, 9, **11**, 13, **15**, **17**, 19, 21, 29, 31, 33, 35, 37, **39**, **41**, **75**.
 - *Section 1.7*: 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 41, 47, 49, **59**, 63, 65, 67, 93, 95, **105**.
 - *Section 1.8*: 3, 5, 7, 13, 43, 45.
 - *Section 1.10*: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, **27**, 33, 41, 43.
 - *Section 2.1*: 1, 3, 5, 7, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, **33**, 35, 37, 41, 43, 45, **47**, 49, **51**, 59, 67, 69.