

M 408C - Differential and Integral Calculus
Fall 2023

Date	Class	Sections*	Topic.
08/22	01	§1.4	Brief Introductions, Exponents, Exponential Function
	02	§1.5	Inverse Functions, Logarithms, and Trig. Review
08/29	03	§2.1	Syllabus Day , From Average Velocity to Tangent Lines
	04	§2.2-§2.4	Limits: Visualizing and Evaluating
09/05	05	§2.4-§2.6	Continuity, Intermediate Value Theorem, Limits at $\pm\infty$
	06	§2.7	Derivative as a Rate of Change
09/12	07	§2.8	Derivative as a Function
	08	§3.1	Derivatives of Polynomials and Exponential Functions
09/19	09		Exam 1
	10	§3.2-§3.3	Product Rule, Quotient Rule, Trig Derivatives
09/26	11	§3.3-§3.4	Derivative of Trig Functions, The Chain Rule
	12	§3.5-§3.6	Implicit Differentiation, Derivatives on Inverse Functions
10/03	13	§3.6, §3.8	Logarithmic Derivatives, Exponential Growth and Decay
	14	§3.9-§3.10	Related Rates, Linear Approximations and Differentials
10/10	15	§3.11, §4.1	Hyperbolic Trig (maybe), Critical Points
	16	§4.1-§4.2	Min. and Max. Values on $[a, b]$, Mean Value Theorem
10/17	17		Exam 2
	18	§4.3	1st and 2nd Derivative Tests, Min and Max on (a, b)
10/23			Last Day to Q-Drop the Course
10/24	19	§4.4-§4.5	L'Hospital's Rule, Curve Sketching
	20	§4.7, §4.9	Optimization, Anti-Derivatives
10/31	21	§4.9, §5.1	Anti-Derivatives, Area and Distance
	22	§5.1-§5.2	Riemann Sums, The Definite Integral
11/07	23	§5.2-§5.3	Integral Properties, FTC parts I and II
	24	§5.4	Indefinite Integrals, Net Change Theorem,
11/14	25	§5.5	u-substitution
	26	§6.1-§6.2	Area Between Curves, Volume
11/20-11/25			Thanksgiving Break - No Class
11/28	27		Exam 3
	28	§6.2	Area between curves, Review, Flex Day**
12/08	12:30p		Final Exam, Friday December 8th, 8-10am
12/07	5p		Final Exam, Thursday December 7th, 7-9pm

*The sections refer to the textbook, *Calculus, Early Transcendentals*, 9th Edition, by James Stewart

*This day will either be a day to prepare for the final exam or it will be used to change the schedule incase a day of class is cancelled.