

18.01A: Calculus; Topics and Schedule, Fall 2023

W	6 Sept	R1	The first recitation meets the day before the first lecture
R	7 Sept	L1	Linear and quadratic approximations PSet 0, to set up Gradescope
F	8 Sept	L2	Indeterminate forms and L'Hôpital's rule; rates of growth and decay
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T	12 Sept	L3	Definite integrals; Fundamental Theorem of Calculus
R	14 Sept	L4	Fundamental Theorem of Calculus (Version 2), $\ln x$ PSet 1, due 1pm
F	15 Sept	L5	Volume, arclength, surface area
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T	19 Sept	L6	Work, average value; trigonometric substitution
R	21 Sept	L7	Trigonometric integrals; partial fractions PSet 2, due 1pm
F	22 Sept		Holiday; no lecture
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T	26 Sept	L8	Integration by parts
R	27 Sept	L9	Improper integrals
F	29 Sept		50-minute exam during class hour (2–3 pm), covering Lectures 1-8
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T	3 Oct	L10	Infinite series; integral test
R	5 Oct	L11	Power series; Taylor series PSet 3, due 1pm
F	6 Oct	L12	Operations on series; solving ODEs
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MT	Oct 9–10		Holiday; no recitation or lecture
R	12 Oct	L13	Discrete probability; mean PSet 4, due 1pm
F	13 Oct	L14	Poisson distribution
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T	17 Oct	L15	Continuous distributions: uniform, exponential, normal
R	19 Oct	L16	Final Review
R	19 Oct		Final Exam 7:30-9:30 pm (2 hours)