

	Topic(s) covered and relevant readings	HW due and additional information
WEEK 1: JANUARY 14–JANUARY 18		
MONDAY	Introduction and tutorial: CLS and SIR	
TUESDAY	Section 1.2: The spread of disease: the SIR model	
WEDNESDAY	Section 1.3: Prediction using SIR	
THURSDAY	Tutorial: SIR and Euler's method	
FRIDAY	Section 1.3: Prediction using SIR (continued)	First individual assignment due
WEEK 2: JANUARY 21–JANUARY 25		
MONDAY	MLK DAY: NO CLASSES	
TUESDAY	Tutorial: Graphing with Sage, part I	First mini project due
WEDNESDAY	Section 1.4: Functions and graphs	
THURSDAY	Tutorial: Graphing with Sage, part II	
FRIDAY	Section 1.5: Linear functions	Second individual assignment due
WEEK 3: JANUARY 28–FEBRUARY 1		
MONDAY	Section 2.1: Rates of change	
TUESDAY	Section 2.2: Local linearity (differentiability)	
WEDNESDAY	Section 2.3: A global view	
THURSDAY	Tutorial: Secant and tangent lines; rates of change	
FRIDAY	Tutorial: More on SIR	Third individual assignment due
WEEK 4: FEBRUARY 4–FEBRUARY 8		
MONDAY	Section 2.4: The chain rule	
TUESDAY	Review for Exam 1	
WEDNESDAY	In-class Exam 1	
THURSDAY	Tutorial: Functions and derivatives	
FRIDAY	Section 2.4: The chain rule (continued)	
WEEK 5: FEBRUARY 11–FEBRUARY 15		
MONDAY	Section 2.5: More differentiation rules	
TUESDAY	Tutorial: The chain rule	
WEDNESDAY	Section 2.6: The microscope equation	
THURSDAY	Tutorial: Differentiation rules; the microscope equation	
FRIDAY	Section 3.1: The (natural) exponential function	Fourth individual assignment due
WEEK 6: FEBRUARY 18–FEBRUARY 22		
MONDAY	Section 3.1: The (natural) exponential function (continued)	
TUESDAY	Tutorial: Population growth with Sage	Second mini project due
WEDNESDAY	Section 3.2: The logarithm function	

THURSDAY	Tutorial: Derivative Fridge Magnets	
FRIDAY	Section 3.2: The logarithm function (continued)	Fifth individual assignment due
	Topic(s) covered and relevant readings	HW due and additional information
WEEK 7: FEBRUARY 25–MARCH 1		
MONDAY	Section 3.2: The logarithm function (continued)	
TUESDAY	Section 3.3: Inverse functions and the arctangent function	
WEDNESDAY	Tutorial: The arctangent and Ebola	
THURSDAY	Tutorial: Exponential growth and decay	
FRIDAY	Tutorial: Arctangent and other inverse functions	Sixth individual assignment due
WEEK 8: MARCH 4–MARCH 8		
MONDAY	Section 3.4: Modeling with differential equations	
TUESDAY	Review for Exam 2	
WEDNESDAY	In-class Exam 2	
THURSDAY	Tutorial: Monomers, Dimers, and Trimers	
FRIDAY	Section 3.5: Modeling populations	
WEEK 9: MARCH 11–MARCH 15		
MONDAY	Section 3.6: Modeling other phenomena	
TUESDAY	Tutorial: More modeling with differential equations	
WEDNESDAY	SNOWPOCALYPSE!! Class cancelled	
THURSDAY	Section 4.1 Power and energy	
FRIDAY	Section 4.2: Accumulation functions	
WEEK 10: MARCH 18–MARCH 22		
MONDAY	Section 4.3: Riemann sums	Seventh individual assignment due
TUESDAY	Tutorial: The Boulder Flood	
WEDNESDAY	Section 4.4: The definite integral	Third Mini Project due
THURSDAY	Tutorial: Polyhedra	
FRIDAY	Tutorial: Spirographs	Eighth individual assignment due
WEEK 11: MARCH 25–MARCH 29		
MONDAY	SPRING BREAK—NO CLASSES	
TUESDAY	SPRING BREAK—NO CLASSES	
WEDNESDAY	SPRING BREAK—NO CLASSES	
THURSDAY	SPRING BREAK—NO CLASSES	
FRIDAY	SPRING BREAK—NO CLASSES	

WEEK 12: APRIL 1–APRIL 5		
MONDAY	Section 4.5: The Fundamental Theorem of Calculus	
TUESDAY	Section 5.1: Antiderivatives	Term project part A (proposal) due
WEDNESDAY	Section 5.1: Antiderivatives (continued)	
THURSDAY	Tutorial: Integration basics	
FRIDAY	Tutorial: Riemann Sums	Ninth individual assignment due
	Topic(s) covered and relevant readings	HW due and additional information
WEEK 13: APRIL 8–APRIL 12		
MONDAY	Tutorial: Integration and accumulation	
TUESDAY	Review for Exam 3	
WEDNESDAY	In-class Exam 3	
THURSDAY	Tutorial: Coin flipping and histograms	
FRIDAY	Section 5.2: Integration by substitution	
WEEK 14: APRIL 15–APRIL 19		
MONDAY	Section 5.2: Integration by substitution (continued)	
TUESDAY	Tutorial: Integration by substitution	
WEDNESDAY	Section 5.3: Separation of variables	
THURSDAY	Tutorial: Term project practice	
FRIDAY	Section 6.1: Relative frequency density	Tenth individual assignment due
WEEK 15: APRIL 22–APRIL 26		
MONDAY	Section 6.1: Relative frequency density (continued)	
TUESDAY	Section 6.2: Statistical inference	
WEDNESDAY	Section 6.2 Statistical inference (continued)	
THURSDAY	Tutorial: Probability and Statistics	
FRIDAY	Section 6.2: Statistical inference (continued)	Eleventh individual assignment due
WEEK 16: APRIL 29–MAY 3		
MONDAY	Section 6.2: Statistical inference (continued)	
TUESDAY	Section 6.2: Statistical inference (continued)	Term project part B (final version) due
WEDNESDAY	Final Exam Review	
THURSDAY	Final Exam Review	Twelfth individual assignment due
FRIDAY	Reading Day: no classes	
	FINAL EXAM TUESDAY, MAY 7,	
	10:30 AM–1:00 PM AM, LOCATION TBD	