

# Schedule

This course schedule **will** change during the semester. Ad hoc topic changes (unannounced) may be based on current events or class pace and interest. Announcement of any meeting changes will be distributed via Discord; please ensure that you are monitoring the [#announcements](#) channel there.

Midterm and final examinations are tentatively scheduled for Friday 4/4 1–3pm, and Wednesday 5/7, 9am–12pm, respectively, in Olin Hall room 120.

	M/W	Tu/Th	Potential topics	Deliverable
	<b>M 1/20</b>		<b>No class (MLK Holiday)</b>	—
<b>1</b>	W 1/22	Tu 1/21	<i>Course introduction</i> Market returns and risk Implied and realized volatility Calculations in Excel	<a href="#">HWO</a> (due Thursday 1/23)
<b>2</b>	M 1/27	Th 1/23	<i>Python demo; Introduction to data</i> Relative performance and hedging Performance attribution Python demo (Copilot)	
<b>3</b>	W 1/29	Tu 1/28	<i>Financial questions and financial analysis</i> Class survey Return skewness and binary returns CRSP Bloomberg Intro. to forecasting	<a href="#">HW1</a>
<b>4</b>	M 2/3	Th 1/30	<i>Python introduction</i> Binomial trees and binomial distribution Python and the notebook ecosystem	
<b>5</b>	W 2/5	Tu 2/4	Following and explaining financial news Python arithmetic Boolean math Intro. to functions	<a href="#">HW2</a>
<b>6</b>	M 2/10	Th 2/6	Python variables and types	
<b>7</b>	W 2/12	Tu 2/11	Order speed and execution quality Monte Carlo simulation Initialize/loop/filter Random numbers	<a href="#">HW3</a>
	<b>M 2/17</b>		<b>No class (Presidents Day Holiday)</b>	—

	M/W	Tu/Th	Potential topics	Deliverable
8	Tu 2/18	Th 2/13	<i>Financial modeling with data</i> Record highs as binary trees Duration and the Gordon Growth model Non-uniform random variables	
		Tu 2/18	<b>Monday classes meet on Tuesday (Babson Monday)</b>	—
9	W 2/19	Th 2/20	<i>Monte Carlo simulation</i> Brownian motion	HW4
10	M 2/24	Tu 2/25	<i>Pandas introduction</i> Prices and returns	
11	W 2/26	Th 2/27	<i>Midterm project presentations</i> Series and DataFrame, index	Midterm group project (due Tuesday 2/25)
12	M 3/3	Tu 3/4	Dividends and closing price adjustments Questions ↔ Algorithms ↔ Code CSV imports Method chaining	HW5
13	W 3/5	Th 3/6	<b>Attendance required:</b> Professional ethics	Ethics discussion prep.
14	M 3/10	Tu 3/11	Random variation and sampling error Autocorrelation and return momentum Series methods Visualizing distributions	
15	W 3/12	Th 3/13	Demand curves and price elasticity Margins/markups and the competitive environment Commodities prices (FRED) CSV imports Exploratory data analysis (EDA)	HW6
	M 3/17	Tu 3/18	<b>No class (Spring Break)</b>	—
	W 3/19	Th 3/20	<b>No class (Spring Break)</b>	—
16	M 3/24	Tu 3/25	Mortgage data (FRED) Term structures FRED API EDA and visualization	
17	W 3/26	Th 3/27	<i>Data/methods demonstration presentations</i>	Data/methods demo (due Tuesday 3/25)

	M/W	Tu/Th	Potential topics	Deliverable
18	M 3/31	Tu 4/1	<i>Data/methods demonstration presentations</i>	
19	W 4/2	Th 4/3	<b>Attendance required:</b> Professional ethics	<a href="#">Ethics report</a> (due Tuesday 4/1)
	<b>F 4/4</b>	<b>F 4/4</b>	<b>Midterm examination</b>	<a href="#">Midterm exam</a> (1–3p in Olin 120; subject to change)
20	M 4/7	Tu 4/8	The Capital Asset Pricing Model (CAPM) Data cleaning and EDA Visualizing relationships	
21	W 4/9	Th 4/10	<i>Introduction to regression</i> Total risk, systematic risk, idiosyncratic risk Seaborn and Pandas EDA Covariance, correlation, and regression slopes	<a href="#">HW7</a>
22	M 4/14	Tu 4/15	House price prediction OLS in statsmodels Interpreting regression outputs Visualizing non-linear/heterogeneous effects	
23	W 4/16	Th 4/17	TBA	
	<b>M 4/21</b>		<b>No class (Patriots Day Holiday)</b>	—
24	W 4/23	Tu 4/22	<i>Group presentations</i>	<a href="#">Final group project</a> (due Monday 4/21)
25	<b>F 4/25</b>	Th 4/24	<i>Group presentations</i>	
26	M 4/28	Tu 4/29	Final wrapup	
	<b>W 5/7</b>	<b>W 5/7</b>	<b>Final examination</b>	<a href="#">Final exam</a> (9a–12p in Olin 120; subject to change)