

COURSE OFFERINGS

Prefix	Course	Suffix	Section	Title	Term
BUFN	712		501	Financial Restructuring	C
BUFN	726		501	Institutional Asset Management	C
BUFN	726		502	Institutional Asset Management	C
BUFN	732		501	Fixed Income Analysis	C
BUFN	745		505	Financial Programming	C
BUFN	758	C	501	Climate Modeling and Analytics Tools	C
BUFN	758	J	501	Carbon Accounting & Financial Disclosures	C
BUFN	768	A	501	Experiential Learning Project	C
BUFN	758	Z	506	Global Equity Fund	C-D
BUFN	670		505	Financial Mathematics	D
BUFN	710		501	Financial Strategy For Corporations	D
BUFN	730		501	Advanced Financial Modeling & Equity Analysis	D
BUFN	744		501	Fixed Income Derivatives	D
BUFN	758	T	501	Portfolio Analysis, Investment Strategies and & Climate	D
BUFN	758	L	501	Fintech: Business Disruptions, Innovations & Opportunities	D
BUFN	758	X	501	Market Microstructure	D
BUFN	768	B	501	Experiential Learning Project	D

Course Descriptions

BUFN670

Financial Mathematics

Introduction to the mathematical models used in finance and economics with emphasis on pricing derivative instruments. Topics include elements from basic probability theory, distributions of stock returns, elementary stochastic calculus, Ito's Lemma, arbitrage pricing theory, and continuous time portfolio theory. Particular focus is on the financial applications of these mathematical concepts.

BUFN710

Financial Strategy for Corporations

An advanced course in corporate finance, focusing on the issues that firms face when they plan to raise external capital from financial markets. The focus is on the financing problems faced by mid-market to large firms and on capital raised from public markets. The forms of external finance vary from simple debt or equity to more complex securities that bundle with an element of risk management.

BUFN712

Financial Restructuring

Focuses on identifying ways to increase firm value through corporate restructuring. Specific topics include: mergers and tender offers, spin-offs, carve-outs, divestitures, takeover defense strategies, leveraged buy-outs, and international acquisitions. Additionally, the theory, practice and empirical evidence related to each of these topics will be covered. Emphasis will be placed on valuation analysis and strategic considerations.

Course Descriptions

BUFN726

Institutional Asset Management

Examines how money is managed by organizations such as university endowments, pension funds, mutual funds, hedge funds, and private equity funds. Involves a mixture of finance and economics and emphasizes the incentives professional money managers face within the context of the organizational structure in which they operate. Particular attention is paid to compensation structures and monitoring mechanisms.

BUFN730

Advanced Financial Modeling and Equity Analysis

Provides in-depth analysis of public equities, with a focus on financial statement analysis, financial forecasting and ultimately valuation. Students will apply the primary valuation techniques used in industry to estimate market values for equities. Additionally, students learn how to stress test their financial models and interpret outcomes.

BUFN732

Fixed Income Analysis

Describes important financial instruments which have market values that are sensitive to interest rate movements. Develops tools to analyze interest rate sensitivity and value fixed income securities. Defines and explains the vocabulary of the bond management business.

Course Descriptions

BUFN744

Fixed Income Derivatives

Surveys fixed income assets and related securities such as Exchange-traded bond options; bonds with embedded options; floating rate notes; caps, collars, and floors; floating rate notes with embedded options. Also surveys advanced tools for interest-rate and fixed-income portfolio management, including the use of derivative securities, and the application of binomial trees for analysis of options, and a sound understanding of stochastic yield curves.

BUFN745

Financial Programming

This course introduces basic and innovative statistical modelling methods for financial markets, and equips students with analytical and programming tools for modelling and analyzing financial data. Examples of applications include portfolio management and risk management.

BUFN758C

Climate Modeling & Analytic Tools

This course provides an overview of the methodologies, assumptions and data used to develop climate models used for scenario and stress test analysis by financial services companies and other institutions. In addition to learning about the mechanics of climate models, their strengths and limitations, students will learn how to use tools for conducting geospatial climate analytics. Financial and risk management modeling techniques including machine learning statistical and simulation-based models for assessing climate change financial impacts will be examined in this course.

Course Descriptions

BUFN758J

Carbon Accounting & Financial Disclosures

This course surveys the accounting principles associated with climate and carbon disclosures. The course will explore the latest guidance from SEC and other regulatory organizations on financial disclosures including The Task Force on Climate-Related Financial Disclosures (TCFD).

BUFN758T

Portfolio Analysis, Investment Strategies & Climate

This course explores important techniques used by asset managers, hedge funds and private equity for valuing various types of assets and companies based on their exposure to climate-related risks. Other financial tools such as green bonds and associated financing vehicles will also be presented for evaluation.