

FINANCE AND TRADING ANALYTICS, B.S.

Contact

Moustafa Abuelfadl Ph.D., CFA
Program Director, Finance and Trading Analytics
mabuelfadl@une.edu

Mission

The Finance & Trading Analytics program delivers a technology-driven, practice-focused curriculum in corporate finance, markets, and portfolio management. Students build applied skills in valuation, fixed-income analysis, factor-aware portfolio construction, and systematic trading using real-time data and professional tools to produce decision-ready recommendations.

Program Description

The Finance & Trading Analytics program is a technology-driven, practice-focused curriculum that integrates corporate finance, markets, and portfolio management into a single learning experience. Students build decision-ready skills in firm valuation, fixed-income and ETF analysis, factor-aware portfolio construction, and systematic trading using real-time data and professional-grade tools. Across the curriculum, students strengthen ethical judgment, teamwork, and communication by producing investment memos, model documentation, and client-constrained recommendations. Graduates leave with a portfolio of applied work demonstrating the ability to model, construct, and implement responsibly in modern financial environments.

Admissions

See Undergraduate Admissions (<https://catalog.une.edu/undergraduate/admissions/>) for more information.

Transfer Credit

See Undergraduate Admissions (<https://catalog.une.edu/undergraduate/admissions/>) for more information.

Financial Information

Tuition and fees for subsequent years may vary. Other expenses include books and housing. For more tuition and fee information, please consult this catalog's Financial Information (<https://catalog.une.edu/undergraduate/financial-information-undergraduate-programs/>) section.

Curricular Requirements

Code	Title	Hours
Nor'easter Core Requirements		
	Nor'easter Core Requirements (https://catalog.une.edu/undergraduate/core-curriculum/)	40
COB Foundation Courses		
BUEC 203	Macroeconomics	3
BUEC 204	Microeconomics	3
BUMG 120	Innovation through Technology	3
	Select one of the following:	3-4
MAT 120	Statistics	

MAT 150	Statistics for Life Sciences	
MAT 151	Statistics for Environmental Sciences ¹	
MAT 190	Calculus I	
Other COB Foundation Courses		
BUAC 201	Financial Accounting	3
BUFI 315	Business Finance Concepts and Skills	3
BUMG 200	Management	3
BUMG 325	Legal Environment of Business	3
BUMG 495	Business Internship	3
BUMG 498	Strategic Management	3
BUMK 200	Marketing	3
Finance Major Required Courses		
BUAC 303	Managerial Accounting	3
BUFI 205	Intro to Data Analysis & Model	3
	or DSC 225 Programming 1	
BUFI 220	Intro to Trading and Markets	3
BUFI 300	Arbitrage Pricing Theory	3
BUFI 301	Exchange-Traded Funds & Index Strategies	3
BUFI 319	Technical Trading Systems	3
BUFI 322	Investments	3
BUFI 323	Fixed Income Securities	3
BUFI 415	Advanced Business Finance	3
BUFI 490	Portfolio Management	3
BUMG 101	Introduction to Business	3
BUMG 307	(Operations Management)	3
	Open Elective Courses (Students complete open elective credits as necessary to meet the University's 120-credit minimum for graduation. The total number of elective credits required will depend on the student's completed program, core, and other degree requirements.)	17
Total Hours		126-127

¹ While each listed course is acceptable, MAT 190 Calculus I is preferred.

Please note: While some courses can fulfill both core and program requirements, the credits earned do not count twice towards the minimum total required credits for the degree.

Learning Outcomes

- L01: Apply data-driven technologies and business principles to solve business challenges.
- L02: Evaluate ethical frameworks to make responsible business decisions.
- L03: Demonstrate effective teamwork characterized by professionalism and accountability.
- L04: Present sustainable business solutions that integrate global awareness and social responsibility.
- L05: Model firm-level with defensible assumptions and sensitivity/scenario analysis.
- L06: Construct diversified, factor-aware portfolios and evaluate portfolio performance within client constraints.
- L07: Implement trading strategies using micro-structure awareness and professional communication.