

FINANCE (MSF)

The Master of Science in Finance program provides students with the real-world skills necessary to succeed as finance professionals. Students develop a deep understanding of modern financial markets along with the instruments and tools used in the industry. In addition to acquiring a conceptual foundation, students learn to develop strategic financial objectives, improve investment decisions, design financial instruments, manage corporate risk and seize new business opportunities.

Program Features

Through the MS in Finance program, students will develop skills in:

- Financial decision-making techniques and strategies.
- Creating and developing solutions to complex financial problems.
- Designing, using and evaluating financial tools and instruments.
- Developing proposals for profitability and productivity.
- Outlining and identifying strategic financial objectives.
- Risk analysis.

Program Requirements	Quarter Hours
Introductory Requirements (waived with applicable prior credit): Candidates are expected to demonstrate competency in principles of financial accounting, economics, and statistics prior to enrollment in the program. Students who have not demonstrated these competencies through previous coursework are required to achieve these competencies prior to registration for the core classes.	
Degree Requirements	48
Total hours required	48

Learning Outcomes

Students will be able to:

- Acquire both knowledge and skills that are broad, deep, and necessary to fulfill their professional goals.
- Use analytical and decision-making skills to solve problems encountered by business and investors.
- Apply financial theory to solve a variety of problems in investment management, risk management, and in corporate finance.
- Produce a coherent written statement of the analysis of a complex business issue.
- Understand and solve problems encountered by a multinational business.
- Develop the foundation to think about and address ethical issues in the context of financial markets and institutions.

Degree Requirements

Course Requirements

The MS in Finance program requires a minimum of 48 credit hours subject to the prerequisite requirement.

Prerequisites for the MSF Program

Students complete the Master of Science in Finance by taking six core courses and six elective courses in addition to the program prerequisites.

Candidates are expected to demonstrate competency in principles of financial accounting, economics, and statistics prior to enrollment in the program. Students who have not demonstrated these competencies through previous coursework are required to achieve these competencies prior to registration for the core courses.

Core Courses

Course	Title	Quarter Hours
FIN 555	FINANCIAL MANAGEMENT	4
FIN 617	TOOLS OF FINANCIAL ANALYTICS	4
FIN 523	INVESTMENT ANALYSIS	4
FIN 524	FINANCIAL STATEMENT ANALYSIS	4
FIN 553	ADVANCED CORPORATE FINANCE	4
FIN 662	DERIVATIVES VALUATION	4

Elective Requirement

Six elective courses are required. At least three of these required electives must be Finance courses. The other three required elective courses are considered *free electives* and may be satisfied in one of the following ways:

- another finance course
- a graduate course in Accounting, Computer Science (CDM), Data Science (CDM), Data Analytics (Management), Economics, Mathematics, or Real Estate (other disciplines or courses may be considered but require the permission of the faculty program director). The following classes are recommended:

Course	Title	Quarter Hours
Courses in Accounting		
ACC 635	INTRODUCTION TO FRAUD EXAMINATION	
ACC 638	ADVANCED IT AUDITING	
ACC 645	FORENSIC AND INVESTIGATIVE ACCOUNTING	
ACC 646	FORENSIC FINANCIAL STATEMENT ANALYSIS AND VALUATION	
Courses in Computational Methods		
CSC 401	INTRODUCTION TO PROGRAMMING	
DSC 430	PYTHON PROGRAMMING	
CSC 521	MONTE CARLO ALGORITHMS	
Courses in Data Science		
DSC 425	TIME SERIES ANALYSIS AND FORECASTING	
DSC 441	FUNDAMENTALS OF DATA SCIENCE	
DSC 465	DATA VISUALIZATION	
Courses in Economics		
ECO 525	GAME THEORY AND STRATEGY	
ECO 526	BUSINESS STRATEGY	
ECO 529	STRATEGY AND ANTITRUST	
ECO 531	BUSINESS MODELS AND INNOVATION STRATEGY	

ECO 540	THE BUSINESS OF HEALTH
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Courses in Real Estate

RE 530	REAL ESTATE INVESTMENT AND FINANCE
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RE 531	REAL ESTATE CAPITAL MARKETS AND FINANCE
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RE 570	ADVANCED REAL ESTATE ANALYSIS WITH ARGUS
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RE 535	INSTITUTIONAL REAL ESTATE INVESTMENT
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Degree Requirements

- Satisfactory completion of the college residency requirement.
- Satisfactory completion of the 6 required courses and 6 elective courses.
- All courses for credit toward the degree must be completed within six calendar years after the candidate's first term of enrollment in the Kellstadt Graduate School of Business. After a lapse of six years, a course is expired. An expired course is not acceptable for the purpose of satisfaction of degree requirements and is not applicable to the degree without the written approval of the director of the program and the Kellstadt Graduate School of Business.