

# Department of Finance and Business Law

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## Professors

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## Associate Professor

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## Assistant Professors

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## Instructor

S. Lowe

## Mission Statement

The Program of Finance and Business Law strives to prepare students for decision-making roles in an increasingly technological and global environment.

## Goals

To support its mission, the Program of Finance and Business Law is committed to the following:

- Creating an educational environment that fosters an intellectual curiosity about the functioning of commerce and the facilitating role of finance and business law.
- Using an integrative instructional approach to provide a quality comprehensive educational, cultural and social experience for students.
- Raising expectations and aspirations of students.
- Providing a proper balance between challenge and support in the education process.
- Providing the larger university community with access to the basic principles and applications of finance for essential life cycle decisions through courses designed for non-finance students and through innovative and contemporary curriculums.

## Career Opportunities

The finance major is designed to prepare students for careers in the financial management of industrial and commercial enterprises; commercial, retail and mortgage banking; investment analysis and portfolio management; real estate; insurance; finance positions in federal, state and local governments and graduate study.

## Corporate Finance

- Junior Analyst – Finance, Planning and Administration
- Financial Analyst – Revenue
- Financial Analyst – Capital Budgets
- Manager, Capital Budgeting
- Manager, Project Finance
- Manager of Financial Planning for Subsidiaries
- Manager, Financial Planning
- Vice President of Finance

## Portfolio Management

- Securities Analyst – Common Stock
- Securities Analyst – Private Placements
- Direct Loan Analyst
- Securities Analyst – Publicly Traded Bonds
- Portfolio Analyst
- Manager, Pension Fund Investments
- Director, Investor Relations
- Account Executive (Securities Broker)

## Working Capital Management

- General Credit Manager
- Assistant Treasurer – Cash Control and Risk Management
- Senior Banking Analyst

## Corporate Real Estate, Insurance and Miscellaneous

- Mortgage Analyst – Production
- Mortgage Analyst – Closing
- Director of Risk Management
- Corporate Model Analyst
- Consultant – Mergers and Acquisitions

## Banking and Financial Institutions

- Corporate Banking Officer
- Lending Officer – European Corporate Banking
- Marketing Officer – Metropolitan Banking
- Vice President – Credit Policy (Financial Analysis Department)

## Co-curricular Activities and Organizations

- Financial Management Association
- Madison Investment Fund

## Degree and Major Requirements

The Program of Finance and Business Law offers programs leading to the Bachelor of Business Administration degree in finance and the B.S. degree in quantitative finance. As part of the JMU assessment program, graduating seniors are required to participate in assessment activities. Assessment information is used to assist the College of Business faculty in modifying curricula.

### Bachelor of Business Administration in Finance

The B.B.A. degree in finance requires a minimum of 120 credit hours of undergraduate course work. Fifty percent of this work, or 60 credit hours, must be taken outside of the College of Business. In counting the 60 credit hours of non-business courses, students may include all hours taken in General Education, up to a total of nine hours in economics (*GECON* courses must be counted as economics) and three hours of COB 191, Business and Economic Statistics. The remaining hours, to bring the total to 60, must be taken from any department outside the College of Business. Students should carefully select these non-business electives to help them gain additional knowledge and expertise for their careers and personal lives.

Required major courses provide finance majors with a foundation in financial management, investments and institutions. Electives within the major permit students to obtain an additional emphasis and explore other areas within the field of finance.

### Degree Requirements

	Credit Hours
B.B.A. core courses <sup>1</sup>	44-45
Finance major requirements	24
Free elective <sup>2</sup>	3
General Education courses <sup>3</sup>	41
Non-business electives	7-11
	120

<sup>1</sup> Up to seven hours of core requirements in economics and calculus may also be taken for General Education credit. Students who take the General Education packages and courses recommended by the College of Business will have only 38 credit hours of additional B.B.A. core requirements.

<sup>2</sup> Any course offered by the university.

<sup>3</sup> The General Education program contains a set of requirements each student must fulfill. The number of credit hours necessary to fulfill these requirements may vary.

### Major Requirements

- FIN 360. Money and Capital Markets
- FIN 365. Intermediate Financial Management
- FIN 371. Principles of Investments
- FIN 488. Advanced Financial Policy
- Finance electives (12 hours)

A student majoring in finance must successfully complete the following finance major core courses: FIN 360, FIN 365, FIN 371 and FIN 488. In addition to these core courses, the student majoring in finance must successfully complete 12 credit hours of financed elective courses. Finance electives include any 300-level or 400-level finance course other than FIN 345 or the finance major core courses. A student may choose up to one of the following courses to satisfy the finance elective credit hours: ACTG 313, ACTG 343, ACTG 344, ACTG 377, BLAW 470, BLAW 496, ECON 331 and ECON 385.

### Recommended Schedule for Majors

#### First Two Years

Students planning to major in finance must complete the 29 to 30 hour, lower-division B.B.A. core curriculum prior to enrolling in upper-division core courses, normally taken in the first semester of

the junior year. It is expected that the lower-division core curriculum will be completed during the first two years of study along with all, or most, of the university General Education curriculum. Failing to complete all lower-division core requirements on time will delay enrollment in upper-division core and major courses until at least the second semester of the junior year.

#### Third and Fourth Years

Finance majors will follow the course schedule below to complete the final two years of their program. It is possible to deviate from this program, but care must be taken to ensure that all course prerequisites are met. Finance majors may choose to enroll in FIN 360 during the same semester as COB 300 or during the semester following completion of COB 300. Note that students taking FIN 360 during the same semester as COB 300 will have more choices in finance electives in subsequent semesters because FIN 360 is a prerequisite for most finance courses.

#### Junior Year

First Semester	Credit Hours
COB 300A. Integrated Functional Systems: Management	3
COB 300B. Integrated Functional Systems: Finance	3
COB 300C. Integrated Functional Systems: Operations	3
COB 300D. Integrated Functional Systems: Marketing	3
FIN 360. Money and Capital Markets	3
	15

#### Second Semester

	Credit Hours
FIN 365. Intermediate Financial Management	3
FIN 371. Principles of Investment	3
Finance elective	3
General Education or non-business electives	6
	15

#### Senior Year

First Semester	Credit Hours
Finance electives	6
General Education or non-business electives	6
Free elective	3
	15

#### Second Semester

	Credit Hours
COB 487. Strategic Management	3
FIN 488. Advanced Financial Policy	3
Finance elective	3
General Education or non-business electives	6
	15

In general, all finance course work must be completed at JMU. Transfer credit for finance courses is awarded only in certain circumstances. In no case will transfer credit be awarded for more than two finance courses, and in no case will transfer credit be awarded for FIN 488, Advanced Financial Policy. Contact the program director for more information on transfer credit.

### Bachelor of Science in Quantitative Finance

The B.S. degree in quantitative finance is designed to prepare students for careers in financial engineering, structured finance, financial modeling, securitization, actuarial science, financial analysis and portfolio management. The focus of this program is on problem solving in the quantitative areas of finance with an added emphasis on the application of complex securities to a variety of financial situations.

The quantitative finance program, which is an interdisciplinary major with many courses co-listed with the math department, is a highly structured program requiring minor fields in both mathematics and economics or a double major in mathematics and quantitative finance. If the double major is selected students are required to take *GECON* 200, *ECON* 201 and *ECON* 331 but are not required to complete the economics minor. Students electing this program should consult with their major adviser as early as possible to identify the appropriate course sequencing. Students electing to double major in mathematics and quantitative finance should also consult with a mathematics advisor as soon as possible. The required courses for the B.S. in quantitative finance are listed.

## Degree Requirements

### Quantitative Finance Major with a minor in Economics

	Credit Hours
General Education <sup>1</sup>	41
Scientific Literacy requirement <sup>2</sup>	3
Free electives	11
Major requirements (listed below) and electives	65
	120

1 The General Education program contains a set of requirements each student must fulfill. The number of credit hours necessary to fulfill these requirements may vary.

2 In addition to course work taken to fulfill General Education requirement.

### Quantitative Finance/Mathematics Double Major

	Credit Hours
General Education <sup>1</sup>	41
Scientific Literacy requirement <sup>2</sup>	3
Free electives	0-1
Major requirements (listed below) and electives	75-76
	120

1 The General Education program contains a set of requirements each student must fulfill. The number of credit hours necessary to fulfill these requirements may vary.

2 In addition to course work taken to fulfill General Education requirement.

## Major Requirements

### Quantitative Finance Major with a Minor in Economics

General Required Course (3 credit hours)

COB 241. Financial Accounting

Finance Courses (27 credit hours)

FIN 250. Principles of Quantitative Finance  
 FIN 365. Intermediate Financial Management  
 FIN 371. Principles of Investments  
 FIN 380. Elemental and Derivative Securities  
 FIN/MATH 395. Mathematical Finance  
 FIN/MATH 405. Securities Pricing  
 FIN 450. Financial Risk Management  
 FIN 480. Seminar in Financial Engineering

Plus one of the following:

FIN/MATH 328. Time Series Analysis  
 FIN/MATH 465. Seminar in Actuarial Science I  
 FIN/MATH 466. Seminar in Actuarial Science II  
 FIN/ECON 372. International Finance and Payments  
 FIN 455. International Financial Management  
 FIN 471. Advanced Topics in Investments  
 FIN 475. Financial Modeling and Risk Analysis  
 FIN 488. Advanced Financial Policy  
 BLAW 470. Financial Products: Regulation and Protection

Mathematics Courses (27 credit hours, 4 of which count for General Education)

MATH 235. Calculus I<sup>3</sup>  
 MATH 236. Calculus II  
 MATH 237. Calculus III  
 MATH 238. Linear Algebra and Differential Equations.  
 MATH 248. Computer and Numerical Algorithms  
 MATH 318. Introduction to Probability and Statistics

MATH 440. Fourier Analysis and Partial Differential Equations

Economics Courses (18 hours, 6 of which count for General Education)

*GECON* 200. Introduction to Macroeconomics<sup>4</sup>

*ECON* 201. Principles of Economics (Micro)<sup>5</sup>

*ECON* 331. Intermediate Microeconomic Theory

*ECON* 332. Intermediate Macroeconomic Theory

*ECON* 385. Econometrics or

MATH 322. Applied Linear Regression

Plus one upper-level economics elective

### Quantitative Finance/Mathematics Double Major

General Required Course (3 credit hours)

COB 241. Financial Accounting

Finance Courses (27 credit hours)

FIN 250. Principles of Quantitative Finance

FIN 365. Intermediate Financial Management

FIN 371. Principles of Investments

FIN 380. Elemental and Derivative Securities

FIN/MATH 395. Mathematical Finance

FIN/MATH 405. Securities Pricing

FIN 450. Financial Risk Management

FIN 480. Seminar in Financial Engineering

Plus one of the following:

FIN/MATH 328. Time Series Analysis

FIN/MATH 465. Seminar in Actuarial Science I

FIN/MATH 466. Seminar in Actuarial Science II

FIN/ECON 372. International Finance and Payments

FIN 455. International Financial Management

FIN 471. Advanced Topics in Investments

FIN 475. Financial Modeling and Risk Analysis

FIN 488. Advanced Financial Policy

BLAW 470. Financial Products: Regulation and Protection

Economics Courses (9 hours, 3 of which count for General Education and 3 of which count for the B.S. scientific literacy requirement)

*GECON* 200. Introduction to Macroeconomics<sup>4</sup>

*ECON* 201. Principles of Economics (Micro)<sup>5</sup>

*ECON* 331. Intermediate Microeconomic Theory

Mathematics Courses (42-43 credit hours, 4 of which count for General Education)

MATH 235. Calculus I<sup>3</sup>

MATH 236. Calculus II

MATH 237. Calculus III

MATH 238. Linear Algebra and Differential Equations.

MATH 245. Discrete Mathematics

MATH 248. Computer and Numerical Algorithms

MATH 318. Introduction to Probability and Statistics

MATH 410. Advanced Calculus

MATH 430. Abstract Algebra I

MATH 440. Fourier Analysis and Partial Differential Equations

Mathematics elective (MATH 238 recommended)

Plus one of the following:

MATH 411. Advanced Calculus II

MATH 431. Abstract Algebra II

MATH 435. Introduction to Topology

MATH 441. Analysis and Dynamics of Differential Equations

3 General Education requirement Cluster Three.

4 General Education requirement Cluster Four.

5 Satisfies the scientific literacy requirement.

## Transfer Credit

In general, all finance course work must be completed at JMU. Transfer credit for finance courses is awarded only in certain circumstances. In no case will transfer credit be awarded for more than two finance courses, and in no case will transfer credit be awarded for FIN 488, Advanced Financial Policy. Contact the program director for more information on transfer credit.