Department of Finance and Business Law

Dr. Pamela Peterson Drake, Head

Phone: (540) 568-6530
Location: Zane Showker Hall, Room 335
Email: drakepp@jmu.edu
Website: www.jmu.edu/cob/finance

Professors
P. Drake, J. Fink, K. Fink, A. Hamilton, D. Thomas

Associate Professors
Q. Liu, E. Semaan

Assistant Professors
J. Chowdhury, H. He, D. Parker, K. Schumann, C. Ullrich

Lecturers
M. Graham, T. Kelley

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.

Job titles held by graduates of the programs include:
- Analyst, Real Estate Development
- Analyst, Structured Finance
- Assistant Treasurer
- Associate, Forensic Technology
- Business Systems Analyst
- Consultant
- Consultant/Engineer Analytics
- Corporate Model Analyst
- Credit Manager
- Director of Risk Management
- Director, Investor Relations
- Financial Planner
- Financial Analyst
- Financial Engineer
- Financial Management Analyst
- Internal Auditor
- Junior Analyst
- Lending Officer
- Loan Analyst
- Manager of Financial Planning for Subsidiaries
- Manager, Capital Budgeting
- Manager, Pension Fund Investments
- Manager, Project Finance
- Mortgage Analyst
- Operations Analyst
- Portfolio Analyst
- Pricing Analyst
- REIT Analyst
- Securities Analyst
- Senior Banking Analyst
- Vice President, Credit Policy
- Vice President, Finance

Co-curricular Activities and Organizations
- Financial Management Association
- Madison Investment Fund
- Global Association of Risk Professionals

http://www.jmu.edu/catalog/13
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 and department faculty in curricula.

Bachelor of Business Administration in Finance

The B.B.A. degree with a major 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

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.B.A. core courses</td>
<td>44-45</td>
</tr>
<tr>
<td>Finance major requirements</td>
<td>25</td>
</tr>
<tr>
<td>Free elective</td>
<td>3</td>
</tr>
<tr>
<td>General Education courses</td>
<td>41</td>
</tr>
<tr>
<td>Non-business electives</td>
<td>6-7</td>
</tr>
<tr>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

1 Up to seven hours of core requirements in economics and calculus may also be taken for General Education credit.
2 Any course offered by the university.
3 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

Finance Major Core Courses
- FIN 302. Spreadsheet Skills in Finance
- FIN 360. Analytical Methods in Finance
- FIN 371. Principles of Investments
- FIN 488. Advanced Financial Policy

In addition to these core courses, the student majoring in finance must successfully complete 12 credit hours of finance elective courses. Finance electives include any 300-level or 400-level finance course other than FIN 301, FIN 345 and the major finance 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 494, BLAW 496, BLAW 497, BLAW 498, CIS 330, ECON 331 and ECON 385. A finance major cannot take more than 10 credit hours of FIN-prefix courses in any one semester without permission of the finance department chair.

Recommended Schedule for Majors

First Two Years

Students planning to major in finance must complete the 29-30 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 B.B.A. 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 are encouraged 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. It is anticipated that students will complete the finance requirements in three semesters following COB 300.

Concentrations

Though not required, finance majors may elect a concentration. The two concentrations are financial analysis and risk management. Students electing these concentrations will be taking specific electives in place of the required four electives for the major.

College of Business: Department of Finance and Business Law 189

http://www.jmu.edu/catalog/13
Financial Analysis Concentration

Many James Madison University finance graduates go on to careers in financial analysis, and the need for financial analysts remains strong. The financial analysis concentration helps prepare students for these careers and also Levels I and II of the Chartered Financial Analysis exam.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 362. Financial Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 378. Fixed Income Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 380. Elemental and Derivative Securities Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>FIN 475. Financial Modeling and Risk Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ACTG 343. Corporate Financial Reporting I</td>
<td>3</td>
</tr>
</tbody>
</table>

Risk Management Concentration

A focus in risk management is designed for finance majors pursuing a more in-depth review of the issues facing organizations and the tools needed to address those uncertainties. In the risk management concentration, students focus on the theory of risk management, risk identification, risk measurement and applications in the form of risk modeling techniques such as Value-at-Risk and Monte Carlo simulations.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 450. Financial Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 451. Risk Management II</td>
<td>3</td>
</tr>
<tr>
<td>FIN 471. Advanced Topics in Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 475. Financial Modeling and Risk Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Because FIN 380, Elemental and Derivative Securities Analysis, is a prerequisite for FIN 450, students electing this concentration are required to take FIN 380, bringing the number of credit hours for this concentration to 15. Therefore, a student with this concentration is required to complete 28 credit hours in finance.

Bachelor of Science in Quantitative Finance

The B.S. degree with a major 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 major 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, though many students choose to double major in mathematics and quantitative finance. If the double major is selected, students are required to take ECON 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 adviser as soon as possible.

Degree and Major Requirements

Quantitative Finance Major with a minor in Economics

**Degree Requirements**

<table>
<thead>
<tr>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
</tr>
</tbody>
</table>

**Major Requirements**

<table>
<thead>
<tr>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
</tr>
</tbody>
</table>

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.

**Finance Courses**

<table>
<thead>
<tr>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
</tr>
</tbody>
</table>

**Mathematics Courses**

<table>
<thead>
<tr>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
</tr>
</tbody>
</table>

**Economics Courses**

<table>
<thead>
<tr>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
</tr>
</tbody>
</table>

1. General Education
2. Quantitative Finance
3. Microeconomics
4. Macroeconomics
5. Microeconomics
6. Macroeconomics
7. Microeconomics
8. Macroeconomics
9. Microeconomics
10. Macroeconomics
11. Microeconomics
12. Macroeconomics
13. Microeconomics
14. Macroeconomics
15. Microeconomics
16. Macroeconomics
17. Microeconomics
18. Macroeconomics

http://www.jmu.edu/catalog/13
Quantitative Finance/Mathematics Double Major

Degree Requirements Credit Hours
General Education 1 41
Scientific Literacy requirement 2 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 Credit Hours
General Required Course 3
COB 241. Financial Accounting
Finance Courses 27
FIN 250. Principles of Quantitative Finance
FIN 371. Principles of Investments
FIN 380. Elementary and Derivative Securities Analysis
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/ECON 372. International Finance and Payments
FIN 451. Risk Management II
FIN 455. Advanced International Financial Management
FIN 471. Advanced Topics in Investments
FIN 475. Financial Modeling and Risk Analysis
Economics Courses 9
(Three of which count for General Education and three of which count for the B.S. scientific literacy requirement)
GECON 200. Introduction to Macroeconomics 4
ECON 201. Principles of Economics (Micro) 5
ECON 331. Intermediate Microeconomic Theory
Mathematics Courses 42-43
(Four of which count for General Education)
MATH 235. Calculus I 2
MATH 236. Calculus II
MATH 237. Calculus III
MATH 238. Linear Algebra with Differential Equations.
MATH 245. Discrete Mathematics
MATH 248. Computers 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 81-82

3 General Education requirement Cluster Three.
4 General Education requirement Cluster Four.
5 Satisfies the scientific literacy requirement.

Risk Management Concentration

Students may elect the risk management concentration. A focus in risk management is designed for quantitative finance majors pursuing a more in-depth review of the issues facing in organizations and the tools needed to address those uncertainties. In the risk management concentration, students focus on the theory of risk management, risk identification, risk measurement and applications in the form of risk modeling techniques such as Value-at-Risk and Monte Carlo simulations.

Required Courses Credit Hours
FIN 450. Financial Risk Management 3
FIN 451. Risk Management II 3
FIN 471. Advanced Topics in Investments 3
FIN 475. Financial Modeling and Risk Analysis 3
12

Because FIN 380, Elementary and Derivative Securities Analysis, is a prerequisite for FIN 450, student electing this concentration are required to take FIN 380, bringing the number of credit hours for this concentration to 15.
FIN 450 is a requirement for quantitative finance majors and FIN 451, FIN 471 and FIN 475 are possible electives for this major. Students electing this concentration take two courses beyond the typical quantitative finance major.

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 FIN 488, Advanced Financial Policy. Contact the program director for more information on transfer credit.