



Pamplin College of  
Business

**FINANCE MAJOR – FinTech and  
Big Data Analytics Option**  
Department of Finance, Insurance and Business Law  
Bachelor of Science in Business  
For students graduating in calendar year **2020**

University Policy 91 requires a student to make satisfactory academic progress towards a degree, see Footnote 1, in order to remain enrolled in the institution. Students are responsible for reading and understanding Policy 91, in accordance with Pamplin Policies (<http://www.pamplin.vt.edu/undergraduate-programs/advising/academic-policies/>)

**FRESHMAN YEAR** (33 Semester Hours Required)

ACIS 1504 Introduction to Business Analytics and Business Intelligence<sup>1,2</sup>  
Area 1: ENGL 1105-1106 First Year Writing or COMM 1015-1016 Communication Skills  
Area 5: MATH 1225-1226 Calculus of a Single Variable<sup>1,2,9</sup>  
PSYC 1004 Introductory Psychology or SOC 1004 Introductory Sociology  
ACIS 2115 Principles of Accounting<sup>1,2</sup>  
Area 3: ECON 2005 Principles of Economics<sup>1,2</sup>  
STAT 3005 Statistical Methods<sup>1,2</sup>  
BIT 2405 Quantitative Methods<sup>1,2</sup>  
FIN 2164 Survey of Finance and Careers

<u>Fall</u>	<u>Spring</u>
3 _____	
3 _____	3 _____
4 _____	4 _____
3 _____	
	3 _____
3 _____	
	3 _____
1 _____	3 _____

**SOPHOMORE YEAR** (30 Semester Hours Required)

ACIS 2116 Principles of Accounting<sup>1,2</sup>  
STAT 3006 Statistical Methods<sup>1,2</sup>  
Area 3: ECON 2006 Principles of Economics<sup>1,2</sup>  
BIT 2406 Quantitative Methods<sup>1,2</sup>  
# FIN 3104 Introduction to Finance<sup>2,7</sup>  
# FIN 3134 Financial Analytics<sup>7</sup>  
# MGT 3304 Management Theory & Leadership Practice<sup>2</sup>  
MATH 2204 Introduction to Multivariable Calculus  
CS 1064 Introduction to Programming in Python  
# BIT 3424 Introduction to Business Analytics Modeling

<u>Fall</u>	<u>Spring</u>
3 _____	
3 _____	
3 _____	
3 _____	
3 _____	
	3 _____
	3 _____
	3 _____
	3 _____
	3 _____

**JUNIOR YEAR** (30 Semester Hours Required)

# ACIS 3115 Intermediate Financial Accounting I or # ACIS 4194 Analysis of Financial Statements  
# CS 1114 Introduction to Software Design  
# FIN 3144 Investments: Debt, Equity, and Derivatives<sup>5</sup>  
# FIN 3154 Corporate Finance<sup>5</sup>  
# MKTG 3104 Marketing Management<sup>2</sup>  
# BIT 3414 Operations and Supply Chain Management<sup>2</sup>  
Area 2: Ideas, Cultural Traditions and Values  
CS 2114 Software Design and Data Structures  
STAT 3104 Probability and Distributions or STAT 4105 Theoretical Statistics  
Area 4: Scientific Reasoning and Discovery

<u>Fall</u>	<u>Spring</u>
3 _____	
3 _____	
3 _____	
3 _____	
3 _____	
	3 _____
	3 _____
	3 _____
	3 _____
	3 _____

**SENIOR YEAR** (32 Semester Hours Required)

Area 2: Ideas, Cultural Traditions and Values  
# FIN 3054 Legal and Ethical Environment of Business<sup>2</sup> or # FIN 3074 Legal, Ethical, and Financing Issues for Entrepreneurs<sup>2</sup>  
CMDA/STAT/CS 3654 Introductory Data Analytics and Visualization  
CMDA/STAT/CS 4654 Intermediate Data Analytics and Machine Learning  
COMM 2004 Public Speaking<sup>3</sup> or Free Elective (only if completed COMM 1015-1016)  
Area 7: # FIN 4144 International Financial Management<sup>4</sup>  
Area 6: Creativity and Aesthetic Experience  
Area 4: Scientific Reasoning and Discovery  
# MGT 4394 Strategic Management<sup>2</sup>  
# FIN 4264 Managing Financial Risk with Derivatives<sup>6</sup>  
# FIN 4274 Equity Securities<sup>6</sup>  
Free Electives<sup>4,8</sup>

<u>Fall</u>	<u>Spring</u>
	3 _____
	3 _____
3 _____	
	3 _____
3 _____	
	3 _____
	1 _____
3 _____	
	3 _____
3 _____	
1 _____	

**Satisfactory Progress Statement:** This is a restricted major. In order to apply for this major, students must complete ACIS 1504, ECON 2005, MATH 1525-1526 (or Math 1524 or MATH 1225-1226) with a minimum GPA of 2.50; have a minimum GPA of 2.50 in all ACIS, ECON, and BIT lower division courses; and have a minimum overall GPA of 2.0. Applicants are considered on a competitive GPA and space available basis. Students must continue to maintain an overall GPA of 2.0 and in-major GPA of 2.0 for satisfactory progress towards a degree.

**GENERAL INFORMATION**

A total of **125 Semester Hours (SH)** is required for graduation. Any exceptions to this curriculum must be approved by the student's Department Head and the Pamplin College of Business Associate Dean for Undergraduate Programs.

**Pre-requisites:** Students are responsible for ensuring that they have the necessary pre-requisites by referring to the course catalog and/or their advisor.

**In-Major GPA:** The GPA in the Finance Major includes all College of Business junior and senior level courses, and all courses required for the major. **These courses are marked with #.** In order to graduate, students must have an in-major GPA of at least 2.0.

**Transferring Courses:** Additional requirements and procedures for transferring courses are available in the Undergraduate Catalog and the Pamplin College of Business form, "Authorization to Take Courses Elsewhere."

**Foreign Language Requirement:** Students who did not successfully complete at least two years of a single foreign, classical, or sign language during high school must successfully complete at least six semester hours of a single foreign, classical, or sign language at the college level. Courses taken to meet this requirement do not count towards graduation. Please consult the Undergraduate Catalog for details.

**FOOTNOTES**

- 1 Satisfactory progress toward a degree: Upon having attempted 72 credit hours (students who entered Pamplin as freshmen) or 90 credit hours (students who transferred into Pamplin), a student must: (1) achieve no grade lower than a C- in MATH 1525 and 1526 (or MATH 1524, or (MATH 1225, MATH 1226, and MATH 2204), or acceptable equivalents); ACIS 1504, 2115 and 2116; BIT 2405 (or STAT 3005) and 2406; ECON 2005 and 2006; and (2) achieve a minimum GPA of 2.0 in the combination of courses previously listed. Students who have not met the requirements will be notified upon reaching 72 credit hours (or 90 credit hours for transfer students) that they must complete any missing courses during the next term of enrollment to rectify any deficiencies. Failing to do so will result in a student being required to transfer to another college at Virginia Tech. This policy is strictly enforced.
- 2 A student must achieve a grade of C- or better in the business core courses (ACIS 1504, MATH 1525-1526 (or MATH 1524 or MATH 1225-1226, 2204), ACIS 2115-2116, BIT 2405 (or STAT 3005), 2406, ECON 2005-2006, BIT 3414, FIN 3104, MGT 3304, MKTG 3104, FIN 3054 or 3074, and MGT 4394). A grade of C- or better must be earned in BIT 3414, FIN 3104, MGT 3304, and MKTG 3104 before taking MGT 4394. FIN 3054 or FIN 3074 may be taken at the same time as MGT 4394; however, the student must earn the specified grade or repeat the course and earn a C- or better before a business degree can be earned.
- 3 COMM 2004 Public Speaking is required for all Business majors who did not take COMM 1015-1016. It may be completed in the sophomore, junior or senior year.
- 4 Free electives must include at least three hours from the University Curriculum for Liberal Education (CLE) Area 7: Critical Issues in A Global Context. Area 7 courses may be used to meet another requirement, or taken as a free elective.
- 5 Prior to enrolling in these courses the student must have earned a grade of C or better in FIN 3134. Students who receive a C- in FIN 3134 may enroll concurrently in these courses while retaking FIN 3134.
- 6 In order to graduate, and prior to enrolling in these courses, the student must have earned a grade of C or better in FIN 3144 and FIN 3154 (only FIN 3144 for FIN 4214). Students who receive a C- in FIN 3144 or FIN 3154 may enroll concurrently in these courses while retaking FIN 3144 and FIN 3154. Students must have earned a C or better in FIN 3134 before enrolling in these courses.
- 7 ACIS 2115, STAT 3005 and ECON 2005 must be completed prior to enrolling.
- 8 Students in this option are strongly encouraged to take the following electives:  
MGT 1104: Foundations of Business  
MGT/HTM 2314: Introduction to International Business  
FIN 2114: Investments and Financial Literacy. This elective also partially meets CLE Area 5 requirement.
- 9 Students in this option must take MATH 1225-1226, 2204 to advance to higher level courses. MATH 1225-1226, 2204 will substitute for MATH 1525-1526 in the Business core curriculum and must meet the grade requirements specified for MATH 1525-1526.