

FLORIDA ATLANTIC UNIVERSITY™

Graduate Programs—NEW COURSE PROPOSAL¹

UGPC APPROVAL _____
 UFS APPROVAL _____
 SCNS SUBMITTAL _____
 CONFIRMED _____
 BANNER POSTED _____
 CATALOG _____

DEPARTMENT: FINANCE

COLLEGE: BUSINESS

RECOMMENDED COURSE IDENTIFICATION:

PREFIX FIN COURSE NUMBER 6456 LAB CODE (L or C) _____

(TO OBTAIN A COURSE NUMBER, CONTACT MJENNING@FAU.EDU)

COMPLETE COURSE TITLE: QUANTITATIVE METHODS IN FINANCE

EFFECTIVE DATE

(first term course will be offered)

SPRING 2015

CREDITS²: 2

TEXTBOOK INFORMATION:

Quantitative Investment Analysis, 2nd edition, by Richard A. DeFusco, Dennis W. McLeavey, Jerald E. Pinto, David E. Runkle

GRADING (SELECT ONLY ONE GRADING OPTION): REGULAR SATISFACTORY/UNSATISFACTORY _____

COURSE DESCRIPTION, NO MORE THAN THREE LINES:

Introduces financial applications of quantitative techniques covered in areas such as probability, Probability Distributions and Descriptive Statistics, Sampling and Estimation, Hypothesis Testing, Correlation Analysis and Regression, Optimization, Time-Series Analysis and Simulation Analysis. The course requires a project using statistical software.

PREREQUISITES *: SUCCESSFUL COMPLETION OF MARKET RATE MS FINANCE "BOOTCAMP."

COREQUISITES*:

REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL)*:

STUDENTS MUST ADMITTED TO THE MS FINANCE MARKET RATE PROGRAM

* PREREQUISITES, COREQUISITES AND REGISTRATION CONTROLS WILL BE ENFORCED FOR ALL COURSE SECTIONS.

MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE: MUST BE A MEMBER OF THE FAU GRADUATE FACULTY

Faculty contact, email and complete phone number:
 Antoine Giannetti; giannett@fau.edu
 561-297-3192

Please consult and list departments that might be affected by the new course and attach comments.³
 None

Approved by:

Department Chair: E. Starnes
 College Curriculum Chair: Wm. McDaniel
 College Dean: Ken H. [Signature]
 UGPC Chair: [Signature]
 Graduate College Dean: [Signature]
 UFS President: [Signature]
 Provost: _____

Date:

9-22-14
9-24-2014
9-24-2014
10/8/14
10-15-14

1. Syllabus must be attached; see guidelines for requirements: www.fau.edu/provost/files/course_syllabus.2011.pdf

2. Review Provost Memorandum: **Definition of a Credit Hour** www.fau.edu/provost/files/Definition_Credit_Hour_Memo_2012.pdf

3. Consent from affected departments (attach if necessary)

Email this form and syllabus to UGPC@fau.edu **one week before** the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website prior to the meeting.



Florida Atlantic University
COLLEGE OF BUSINESS

FIN 6456 – 001 - CRN Number
Quantitative Methods in Finance
Term 3
Class Location
6:15-10:00 PM

Professor Information

Antoine Giannetti
KH 142
giannett@fau.edu
561-297-3192

Office Hours

T R 12:30-2:00 PM
Other times by appointment

Required Text and Materials

Quantitative Investment Analysis, 2nd edition, by Richard A. **DeFusco**, Dennis W. McLeavey, Jerald E. Pinto, David E. Runkle and its associated workbook.

Students should always bring an electronic calculator in class. Familiarity with Microsoft Excel is required to complete the project.

Course Description

Introduces financial applications of quantitative techniques covered in areas such as probability, Probability Distributions and Descriptive Statistics, Sampling and Estimation, Hypothesis Testing, Correlation Analysis and Regression, Optimization, Time-Series Analysis and Simulation Analysis. The course requires a project using statistical software (Excel).

Course Prerequisites and Credit Hours

Prerequisites: SUCCESSFUL COMPLETION OF MARKET RATE MS FINANCE "BOOTCAMP."

According to Florida State Statute 6A-10.033, students must spend a minimum of 37.5 hours of **in class** time during a 3-credit course. Additionally, students enrolled in a 3-credit course are expected to spend a minimum of 75 hours of **out-of-class-time** specifically working on course-related activities (i.e., reading assigned pieces, completing homework, preparing for exams and



other assessments, reviewing class notes, etc.) and fulfilling any other class activities or duties as required.

Grading Scale

Letter grades will be assigned as follows:

A 90 % or above of possible points

B 80%-89.9% of possible points

C 70%-79.9% of possible points

D 60%-69.9% of possible points

F below 60% of possible points

Plus and Minus grades will be assigned with respect to the mid-point in each letter grade. The official university policy will be followed for grades of I, Incomplete. The official policy is "A student who is passing a course but has not completed all the required work because of exceptional circumstances may, with the approval of the instructor, receive a grade of Incomplete (I). It is not to be used to allow students to do extra-work, subsequently to raise the grade earned in the regular term".

Course Evaluation Method

Exams and project will not be curved. There are 300 possible points, and grades will be determined as follows:

Exams (2): 100 points

Project: 100 points

Total: 300 points

Only the Total score may be curved, if needed.

Missing Exams

Make-up exams will only be given in extraordinary circumstances for a valid and documented reason. Conflicts with examinations dates or times need to be brought to the attention of the instructor at least one week before the exam so that arrangements can be made. The instructor reserves the right to give a make-up exam different from the one given at the regularly scheduled exam.

Attendance Policy

Students are expected to attend class.



Course Outline

Week 1: Time Value of Money. Discounted Cash Flow Applications.

Week 2: Statistical Concepts and Market Returns.

Week 3: Probability Concepts.

Week 4: Common Probability Distributions.

Week 5: Sampling and Estimation. Exam # 1

Week 6: Hypothesis Testing.

Week 7: Correlation and Regression.

Week 8: Multiple Regression and Issues in Regression Analysis.

Week 9: Time-Series Analysis.

Week 10: Portfolio Concepts. Exam # 2

Selected University and College Policies

Code of Academic Integrity Policy Statement

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001.

Disability Policy Statement



In compliance with the Americans with Disabilities Act (ADA), students who require special accommodation due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) – in Boca Raton, SU 133, (561) 297-3880; in Davie, MOD 1, (954) 236-1222; in Jupiter, SR 117, (561) 799-8585; or, at the Treasure Coast, CO 128, (772) 873-3305 – and follow all OSD procedures.

Religious Accommodation Policy Statement

In accordance with rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices **and beliefs with regard to admissions, registration, class attendance and the scheduling of examinations and work assignments.** For further information, please see Academic Policies and Regulations.

University Approved Absence Policy Statement

In accordance with rules of the Florida Atlantic University, students have the right to reasonable accommodations to participate in University approved activities, including athletic or scholastics teams, musical and theatrical performances and debate activities. It is the student's responsibility to notify the course instructor at least one week prior to missing any course assignment.

College of Business Minimum Grade Policy Statement

The minimum grade for College of Business requirements is a "C". This includes all courses that are a part of the pre-business foundation, business core, and major program. In addition, courses that are used to satisfy the university's Writing Across the Curriculum and Gordon Rule math requirements also have a minimum grade requirement of a "C". Course syllabi give individualized information about grading as it pertains to the individual classes.

Incomplete Grade Policy Statement

A student who is passing a course, but has not completed all work due to exceptional circumstances, may, with consent of the instructor, temporarily receive a grade of incomplete ("I"). The assignment of the "I" grade is at the discretion of the instructor, but is allowed only if the student is passing the course.

The specific time required to make up an incomplete grade is at the discretion of the instructor. However, the College of Business policy on the resolution of incomplete grades requires that all work required to satisfy an incomplete ("I") grade must be completed within a period of time not exceeding one calendar year from the assignment of the incomplete grade. After one calendar year, the incomplete grade automatically becomes a failing ("F") grade.



Withdrawals

Any student who decides to drop is responsible for completing the proper paper work required to withdraw from the course.

Grade Appeal Process

A student may request a review of the final course grade when s/he believes that one of the following conditions apply:

- There was a computational or recording error in the grading.
- Non-academic criteria were applied in the grading process.
- There was a gross violation of the instructor's own grading system.

The procedures for a grade appeal may be found in Chapter 4 of the University Regulations.

Disruptive Behavior Policy Statement

Disruptive behavior is defined in the FAU Student Code of Conduct as "... activities which interfere with the educational mission within classroom." Students who behave in the classroom such that the educational experiences of other students and/or the instructor's course objectives are disrupted are subject to disciplinary action. Such behavior impedes students' ability to learn or an instructor's ability to teach. Disruptive behavior may include, but is not limited to: non-approved use of electronic devices (including cellular telephones); cursing or shouting at others in such a way as to be disruptive; or, other violations of an instructor's expectations for classroom conduct.

Faculty Rights and Responsibilities

Florida Atlantic University respects the right of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions which do not impede their exercise. To ensure these rights, faculty members have the prerogative:

- To establish and implement academic standards
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