Finance 377.1 Spring 2009 Sections: #03035 MW 8:00 am - 9:30 am

03040 MW 9:30 am - 11:00 am 03045 MW 11:00 am - 12:30 pm

PORTFOLIO ANALYSIS AND MANAGEMENT

Professor: Keith C. Brown Office Hours: MW 12:45 pm – 2:00 pm

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Objective:

Successful portfolio management requires the development of a broad array of quantitative and qualitative skills, involving an analysis of both the investment instruments available in the capital market and the objectives and constraints of the intended investor. The purpose of this course is to acquaint the student with conventional and state-of-the-art tools currently employed in the asset management industry. Through a series of lectures, projects, and case analyses we will examine the process of creating, maintaining, and evaluating profitable investment portfolios. This course, which will follow the general approach used in the Chartered Financial Analyst (CFA) candidate training program, is appropriate for anyone contemplating a career as an investment professional, portfolio manager or security analyst. A prerequisite for this course is the successful completion of FIN 367.

Texts:

Required - Investment Analysis and Portfolio Management, 9e by F. Reilly and K. Brown (South-Western Cengage Learning, 2009)

Cases & Readings Packet (Available at University Copy Center, 3rd Floor GSB)

Recommended – *A Random Walk Down Wall Street*, *9e* by B. Malkiel (Norton, 2007)

Pioneering Portfolio Management, 2e by D. Swensen (Free Press, 2009)

Also Recommended - Wall Street Journal or Barron's

Institutional Investor Bloomberg Markets

Economist

Financial Analyst Journal

Journal of Portfolio Management Journal of Investment Management

Grades: Your performance in this course will be evaluated in the following manner:

Midterm Examination I23%Midterm Examination II23%Final Examination23%Group Projects23%Class Participation8%100%

A more complete discussion of the method used for assessing your performance can be found below in the Grading Policies section of the syllabus.

Course Structure:

The course is divided into the following parts and sections:

- Part 1:
 - I Portfolio Formation and the Asset Allocation Process
 - II Risk, Return, and Portfolio Construction
- Part 2:
 - III Equity Portfolio Management
 - IV Fixed-Income Portfolio Management
- Part 3:
 - V Professional Asset Management
 - VI Portfolio Performance Measurement
 - VII Derivatives and Alternatives in Portfolio Management
- (i) Location of Daily Class Sessions:
- As a rule, the class will meet every Monday and Wednesday of the semester in the regularly assigned classroom (CBA 4.348). Each class session will run between 75-80 minutes in length. There will be no formal break given during any of these class sessions, so please come prepared accordingly.
- On a few occasions during the semester, we may hold our class meeting in the Financial Trading and Technology Center (FTTC) classroom to facilitate our use of the myriad financial databases now available to us. These FTTC sessions will be announced in advance and take place during the normal class time.
- (ii) Class Session Topic Coverage:
- The Course Outline gives a specific session-by-session breakdown of the topics we will cover in class. Throughout the semester, I will announce in class the details of the precise assignment for subsequent sessions; this information will also be posted in the appropriate location on the course home page. If you have any questions about what is to be covered in any class, please consult the website or ask me directly before the class session.
- The course home page (which is listed on the first page of this syllabus) will serve as an important mechanism for communicating course-related information. However, anything crucial to your class performance that is posted online also will be available through either more traditional outlets (e.g., e-mail, class handouts) or upon request. In addition to electronic versions of many of the materials distributed in class, the website will contain a file that summarizes the material covered in previous classes as well as one that specifies the required readings and problems for the next session. These files will be updated—assuming there are no network problems—no later than 2:00 pm on the day before a class session.
- PowerPoint files containing the class lecture notes will also be posted no later than 2:00 pm on the day before a class session. As a rule, these notes will not be distributed in class; if you would like to have them available during the lecture, you should download them (in hard copy form) and bring them with you to class.
- (iii) Examination Schedule and Coverage:

There will be an examination given at the end of each of the three parts of the course:

- The first midterm examination will be given from **7:00-10:00 pm** on **Monday, February 23**. It will include all of the material covered from the beginning of class through the previous class session.
- The second midterm examination will be given from **7:00-10:00 pm** on **Monday, April 6**. It will include all of the material covered after the first examination through the previous class session.

(Please note that both of these evening examination dates fall on normal class days, but there will be no regular class session held on either February 23 or April 6.)

- The final examination will be given during **Finals Week**. The length and topic coverage of the final examination will be determined later in the semester.

Grading: Policies:

As noted, your mastery of the course material will be evaluated with three distinct graded components: Examinations, Group Projects, and Class Participation

(i) Examinations:

- The three examinations given during the semester will carry equal weight toward your final grade. The tests will involve a combination of questions designed to assess your problem-solving, analytical and interpretative (i.e., essay) skills.
- Each test will be closed-book, closed-note. All necessary materials (i.e., test booklet, equation sheet, extra paper) will be provided to you. You will need to bring to each exam the following items: writing instruments, financial calculator, and picture ID card. You will not be allowed to use laptop computers or any other electronic devices during the examinations.
- It is expected that you will be present at the time and date for each of the examinations. No makeup examinations will be given without the prior consent of the instructor. Such consent will only be given for demonstrable conflicts and with the proper documentation.

(ii) Group Projects:

- The Group Projects component of your grade will consist of *three separate projects* that will be spread throughout the semester. There will be one project linked to each part of the course. These projects will allow you to explore several different aspects of the investment process, including the asset allocation decision, the valuation and selection of individual securities in the context of the portfolio formation process, and a performance evaluation of a security portfolio. The specific descriptions associated with these assignments will be distributed formally beginning in mid-January.
- Completion of the assigned projects will require you to work in **groups of four people**. You will be assigned to the same four-person group for the entire semester, but you will be allowed to select your own group, if you choose to do so. At the end of the semester, you will have the opportunity to provide a peer evaluation of the other members of the group for the purpose of determining the quality of the relative contributions provided by each member.
- Your final class project grade will be an equally weighted average of the scores earned on each of the three separate projects. On each project, the same grade will be assigned to every member of your group, assuming each person contributes equal effort and output to the assignment. Further, no late projects will be accepted for any reason.

(iii) Class Participation:

- Your class participation score will be based on two elements: (1) the consistency of your attendance in your assigned section, and (2) the quality of your contributions to the daily inclass discussions. Class participation grades (as a percent of the overall course) will range from 8 (i.e., excellent attendance, frequent and substantive in-class contributions) to 0 (i.e., poor attendance, no in-class contributions, disruptive behavior).
- It is expected that you will attend the section in which you are enrolled on a daily basis. If you miss more than three class sessions without some form of prior approval, you may be assigned a class participation grade of 0 (i.e., zero). If you miss six or more classes, you may receive a failing overall grade so that you can take the class at a time when it is more convenient for you. (Note: The first three class sessions are exempted from these policies.)
- You may not attend a section of the course in which you are not enrolled without the prior written (i.e., by e-mail) consent of the instructor. Unauthorized attendance in a different section will be treated as an absence for the purpose of assigning class participation grades. It is also expected that you will *display your name card* at your seat for every class session.
- As reflected by the Course Outline, consideration of solutions to the case studies and assigned end-of-chapter questions and problems is an important focus, so it is vital that you consider them *before* each class meeting. You will be responsible for being prepared to discuss answers to all of the questions pertaining to a particular topic, even if some of them are not eventually covered in class. You also will be held responsible for everything covered or assigned in class which, at times, will depart significantly from the material contained in the textbook and articles.

Grading Policies: (cont.)

(iv) Overall End-of-Semester Assessment:

- At the end of the semester, the raw number of points that you earned on each graded component (i.e., exams, projects, class participation) will be averaged by the weighting percentages listed earlier. The weighted total scores for all students in all sections of the course will then be curved together to determine the final distribution.
- At a minimum, the following percentile ranges will be applied to the distribution of relative weighted scores (i.e., not the raw numerical scores on each graded component) when assigning final grades: A 90 to 100; B 80 to 89; C 70 to 79; D 60 to 69; F Below 60. In borderline situations, both class participation and improvement on your test scores throughout the semester will be determining factors.

Other Policies:

The following additional policies will also be in place this semester:

- (i) Academic Dishonesty:
- Academic dishonesty (as defined by the Policy Statement on Scholastic Dishonesty for the McCombs School of Business) will not be tolerated and will be dealt with in the most severe manner possible. I assume that all students in this course will act as if bound by this policy and you can expect the same from me. In particular, I will expect that on every individual assignment or examination the work you submit will be entirely your own and that you will provide a level and quality of input to the group projects commensurate with that of your colleagues. Failure to do so may result in failure on the project or in the course. The McCombs School Policy Statement offers this message on the subject:

By teaching this course, I have agreed to observe all of the faculty responsibilities described in that document. By enrolling in this class, you have agreed to observe all of the student responsibilities described in that document. If the application of that Policy Statement to this class and its assignments is unclear in any way, it is your responsibility to ask me for clarification. Policy on Scholastic Dishonesty: Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. Since dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic dishonesty will be strictly enforced. You should refer to the Student Judicial Services website at http://deanofstudents.utexas.edu/sjs/ or the General Information Catalog to access the official University policies and procedures on scholastic dishonesty as well as further elaboration on what constitutes scholastic dishonesty.

(ii) Prohibition Against Using Electronic Devices in the Classroom:

- Consistent with the policy of the Department of Finance, the use of computers and other electronic devices in class is generally prohibited. On occasions, however, the use of laptop computers may be permitted in class solely for the purposes of note-taking and discussion of the homework problems *and* when authorized in advance by the instructor.
- Please note that accessing the internet, recreational programs, or e-mail and messaging accounts without prior consent of the instructor is strictly forbidden.

(iii) Students With Disabilities:

- The Provost's Office offers the following statement to help inform students of available resources and to fulfill due diligence for Americans With Disabilities Act (ADA):

The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities. For more information, contact the Office of the Dean of Students at 471-6259, 471-4641 TTY.

COURSE OUTLINE

The following outline lists the topic coverage and reading requirements for the semester. The "Assignment" listings refer to the end-of-chapter problems that can be found in the Reilly and Brown's (RB) *Investment Analysis and Portfolio Management* textbook. For the RB assignments, the question and problem numbering system refers to the relevant chapter and question or problem (e.g., Q1.2 refers to the second *question* in Chapter 1, P2.3 refers to the third *problem* in Chapter 2). All of the supplemental readings and case studies are contained in the course reading packet, except where indicated by an asterisk (*); the case studies and readings marked by an asterisk can be downloaded from the course website.

I. Portfolio Formation and the Asset Allocation Process

Class #1: Wednesday, January 21

Topic: Overview of the Portfolio Formation Process and Recent Financial Market Trends

Reading: RB Chapter 1, Appendix 1A

P. Bernstein, "How Far Away is the Past; How Near is the Future?," *CFA Institute Conference Proceedings Quarterly*, December 2008 - *

Assignment: Q1.11, P1.5, P1A.2, P1A.3

Class #2: Monday, January 26

Topic: The Asset Allocation Decision: Background and Investment Policy Statements

Reading: RB Chapter 2 (pp. 31-48), Appendix 2A

R. Ibbotson and P. Kaplan, "Does Asset Allocation Policy Explain 40, 90, or 100 Percent of Performance," *Financial Analysts Journal*, January-February 2000 - *

Assignment: Q2.1, Q2.6, Q2.9, P2.5

Class #3: Wednesday, January 28

Topic: Asset Allocation Strategy Formation

Reading: RB Chapter 2 (pp. 48-54)

Chapter 16 (pp. 568-572)

Assignment: P16.6, Strategic Asset Allocation Case Study - *

Class #4: Monday, February 2

Topic: Equity Style and Passive Investment Management

Reading: RB Chapter 16 (pp. 539-548, 559-568)

L. Chan and J. Lakonishok, "Value and Growth Investing: Review and Update," *Financial Analysts Journal*, January-February 2004 - *

K. Brown, "Relative Valuation Techniques and Value vs. Growth Investing," Lecture Notes, January 2009 - *

Assignment: Q16.1, Q16.2, Q16.8, P16.5, P16.8

II. Risk, Return, and Portfolio Construction

Class #5: Wednesday, February 4

Topic: Risk and Diversification: Fundamentals, Downside Risk and Efficient Optimization Principles

Reading: RB Chapter 7

Assignment: Q7.3, Q7.6, Q7.12, P7.5, P7.6, P7.7

Class #6: Monday, February 9

Topic: Risk and Diversification: Optimization Examples and Components of Portfolio Risk

Reading: K. Brown, "A Brief Review of the Portfolio Formation Process," Lecture Notes, January 2009 - *

K. Brown, "The Components of Portfolio Risk," Lecture Notes, January 2009 - *

Assignment: Q7.11, Efficient Portfolio Formation Case Study - *

Class #7: Wednesday, February 11

Topic: Advanced Portfolio Risk Analytics: Value at Risk and Implied Expected Return Forecasts

Reading: A. Damodaran, "Value at Risk (VaR)," Chapter 7 from *Strategic Risk Taking* (Wharton Publishing), August 2007 - *

G. Ha and R. Litterman "The In

G. He and R. Litterman, "The Intuition Behind Black-Litterman Model Portfolios," Goldman Sachs Working Paper, December 1999 - *

Assignment: Asset Class Risk Analysis Case Study - *

Class #8: Monday, February 16

Topic: Risk and Expected Return: Capital Asset Pricing Model

Reading: RB Chapter 8 (pp. 205-222, 228-231)

K. Brown, "Some Useful Facts About Beta," Lecture Notes, January 2009 - *

Assignment: Q8.2, Q8.7, P8.1, P8.5, P8.7, P8.8

Class #9: Wednesday, February 18

Topic: Risk and Expected Return: Multi-Factor Models

Reading: RB Chapter 9 (pp. 237-241, 246-257)

Assignment: Q9.5, Q9.7, P9.2, P9.6, P9.7

Class #10: Monday, February 23

Topic: Midterm Examination #1 (Note: Exam will be given during the evening; no regular class meeting)

III. Equity Portfolio Management

Class #11: Wednesday, February 25

Topic: Market Efficiency and Behavioral Finance

Reading: RB Chapter 6

G. Bhandari and R. Deaves, "The Demographics of Overconfidence," *Journal of Behavioral Finance*, First Quarter 2006 - *

Assignment: None

Class #12: Monday, March 2

Topic: Equity Valuation Analysis: Fundamental Concepts

Reading: RB Chapter 11 (pp. 317-336)

K. Brown, "The Foundations of Stock Valuation," Lecture Notes, January 2009 - *

Assignment: Q11.1, Q11.8, P11.4, P11.6, P11.15

Class #13: Wednesday, March 4

Topic: Equity Valuation Analysis: Company Analysis and DCF Techniques

Reading: RB Chapter 14 (pp. 453-470)

K. Brown, "Some Thoughts on Cash Flow," Lecture Notes, January 2009 - *

Assignment: Q14.8, P14.8, P14.14, P14.15

Class #14: Monday, March 9

Topic: Equity Valuation Analysis: Comparable Firm Techniques

Reading: RB Chapter 11 (pp. 336-341)

Chapter 14 (pp. 470-491)

J. Liu, D. Nissim, and J. Thomas, "Is Cash Flow King in Valuations?," Financial Analysts Journal, March-April 2007 - \ast

K. Brown, "The Conceptual Relationship Between DCF and Relative Valuation Techniques," Lecture Notes, January 2009 - *

Assignment: Q14.10, Q14.11, Q14.21, P14.16, P14.18a

Class #15: Wednesday, March 11

Topic: Active Equity Portfolio Strategies Reading: RB Chapter 16 (pp. 548-559)

Assignment: Q16.9, Harbor Capital Appreciation Fund Case Study

IV. Fixed-Income Portfolio Management

Class #16: Monday, March 23

Topic: Bond Fundamentals: Yield Curve Analysis, Instruments and Valuation

Reading: RB Chapter 17 (pp. 579-587)

Chapter 18 (pp. 609-618, 625-633)

K. Brown, "The Fundamentals of Bond Valuation," Lecture Notes, January 2009 - *

Assignment: Q17.8, P17.4, Q18.1, Q18.5, Q18.6, P18.2

Class #17: Wednesday, March 25

Topic: Bond Risk Measurement

Reading: RB Chapter 18 (pp. 640-663), Appendix 18

M. Kritzman, "What Practitioners Need to Know about Duration and Convexity," *Financial Analysts Journal*, November-December 1992 - *

Assignment: Q18.7, Q18.8, Q18.18, P18.3, P18.7

Class #18: Monday, March 30

Topic: Fixed-Income Portfolio Strategies: Passive and Dedicated Reading: RB Chapter 19 (pp. 677-682, 697-708), Appendix 19

Assignment: Q19.1, Q19.8, P19.3, P19.7

Class #19: Wednesday, April 1

Topic: Fixed-Income Portfolio Strategies: Active and Core-Plus

Reading: RB Chapter 19 (pp. 682-697)

Assignment: P19.1, P19.5, Greydanus Boeckh Case Study

Class #20: Monday, April 6

Topic: Midterm Examination #2 (Note: Exam will be given during the evening; no regular class meeting)

V. Professional Asset Management

Class #21: Wednesday, April 8

Topic: Traditional Asset Management: Private Firms and Mutual Funds

Reading: RB Chapter 24 (pp. 891-906, 924-929)

G. Brinson, "The Future of Investment Management," *Financial Analysts Journal*, July-August 2005 - *

Assignment: None

Class #22: Monday, April 13

Topic: Alternative Asset Management: Hedge Funds and Private Equity

Reading: RB Chapter 24 (pp. 906-924)

B. Singer, R. Staub, and K. Terhaar, "Determining the Appropriate Allocation to Alternative Investments," *CFA Institute Conference Proceedings Quarterly*, April 2002 - *

Assignment: Q24.8, Maverick Capital Case Study

VI. Portfolio Performance Measurement

Class #23: Wednesday, April 15

Topic: Traditional Evaluation Measures: Peer Comparisons and Basic Risk-Adjusted Measures

Reading: RB Chapter 25 (pp. 937-955)

Assignment: Q25.3, Q25.6, P25.1, P25.2, P25.3

Class #24: Monday, April 20

Topic: Traditional Evaluation Measures: Advanced Risk-Adjusted Measures

Reading: RB Chapter 25 (pp. 957-962, 967-970)

V. Harlow and K. Brown, "The Right Answer to the Wrong Question: Identifying Superior Active Portfolio Management," *Journal of Investment Management*, Fourth Quarter 2006 - *

Assignment: Q25.4, Q25.5, Q25.8, P25.4, P25.6

Class #25: Wednesday, April 22

Topic: Attribution Analysis

Reading: RB Chapter 25 (pp. 963-967)

Assignment: Q25.7, P25.7, P25.8

VII. Derivatives and Alternatives in Portfolio Management

Class #26: Monday, April 27

Topic: Forward Contracts, Futures, and Options: Review

Reading: RB Chapter 20 (pp. 727-749) Assignment: Q20.3, P20.1, P20.2, P20.3

Class #27: Wednesday, April 29

Topic: Altering Portfolio Risk and Return with Derivatives

Reading: RB Chapter 20 (pp. 751-756)

Chapter 22 (pp. 828-839)

Assignment: Q20.8, P20.7a, P22.10, P22.11

Class #28: Monday, May 4

Topic: Equity Investment Alternatives

Reading: RB Chapter 23 (pp. 866-870, 872-875)

Assignment: Q23.9, P23.6, P23.9

Class #29: Wednesday, May 6

Topic: Equity Investment Alternatives (cont.), Credit Default Swaps and Examination Review

Reading: RB Chapter 23 (pp. 858-864)

Assignment: P23.5