



MGT/P/B-261 INVESTMENT ANALYSIS

SYLLABUS for Fall 2020

Instructor Contact Information

Instructor: Joe Chen
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Zoom Office Hours: Wednesdays 4:30pm-5:30pm (or by appointment)
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Course website: on Canvas (<http://canvas.ucdavis.edu>)

Course Description

The objective of this course is to study theory and empirical evidence relevant to portfolio management. The course develops a thorough understanding of how investment professionals allocate funds in portfolio. The main topics include estimation of capital market parameters, trade-off between risk and return, optimal portfolio selection, equilibrium asset pricing models, and delegated portfolio management. The development of techniques that should be part of the tool kit of students interested in becoming professional investors or researchers in finance takes emphasis. This course primarily addresses the needs of advanced students in an MBA program.

Prerequisites

- I will assume a good understanding of **basic notions in finance** covered in the core (introductory) graduate-level finance course or equivalent. I will discuss some of these topics in class, but I expect you to refresh your memory on them at the very beginning of the course. Spending time in class to review ideas that are covered by more basic courses would be inefficient and, most importantly, would take time away from new and more exciting topics. I assume that you are in this class to learn new materials and get ready for the job market, and I will teach the course accordingly.
- Uncertainty is what makes financial markets fascinating. Unfortunately, this also makes our task more difficult. We cannot undertake a rigorous study of portfolio and risk management without a solid **knowledge of statistics**. You should have covered these materials in the core (introductory) graduate-level statistics course or equivalent. For this reason, I expect you to refresh your memory on some essential concepts such as descriptive statistics, inference techniques, and simple regression analysis. Any introductory book in statistics should help you to get up to speed.
- A mathematical approach is necessary to avoid superficiality for many of the topics covered by this course. We will assume a good **knowledge of mathematics**, such as linear algebra and calculus. I am not a fan of technicalities per se, but I hope that by the end of the course, you will appreciate how the use of technical tools is essential.

- If you are planning to work in the area of investment management, it is essential that you develop your computer skills. I will assume that you know how to use spreadsheets to perform some fundamental analysis. I will assign problem sets that require the **proficiency of computing** skills, such as the use of Microsoft Excel. Moreover, various course exercises may rely on accessing online resources.

Course Materials

Textbook

Investments, 12th Edition (referred to as **BKM** hereafter)

Authors: Zvi Bodie, Alex Kane, and Alan Marcus

Publisher: McGraw-Hill/Irwin

ISBN-13: 978-1260013832

ISBN-10: 1260013839

Connect Online Access is NOT needed. Only the textbook will be used.

Digital versions and international/global editions are acceptable.

Older editions are also acceptable – but you will be responsible for following any changes in page numbers.

Other Materials

A coursepack with copies of HBS cases will be needed. Link to purchase the coursepack can be found on the course website. Additional required readings may be assigned and provided electronically.

Course Groups

Teamwork is a critical skill to be developed in investment management. All assignments and the course project must be done in groups. At the beginning of the course, students will form groups for the entire session. Each class participants are to form into **groups of 2 to 4 students**. If you have problems creating groups or finding enough members, one will be assigned for you. Name your group with business name appropriate for an investment company. Eg. “Aggie Inv’t Co.”

Course Assessments

The course grade is based on the following criteria:

Group Assignments (5)	30%*
Individual Assignments (4)	20%*
Course Project	35%
Participation	15%

* For the purpose of grading, you are allowed to drop your lowest scoring group assignment score and your lowest individual assignment score.

- Group Assignments:** I will regularly assign group assignments to be completed in **groups**. There will be a total of 5 group assignments. Submit one write-up for the entire group, being careful to note all the names of group members.
- Individual Assignments:** I will also assign individual assignments. These are to be done **individually without collaboration**. There will be a total of 4 individual assignments.

- **Submissions:** All electronically submitted documents must be **professional and properly formatted** to print. **Creating PDF documents are ideal.** You do not need to submit supporting documents containing data or spreadsheets with computations. Unformatted Word or Excel files will not be accepted.
- **Course Project:** There will be *one major project* dealing with portfolio allocation. We will be working on this project throughout the course, with intermediate components due intermittently. We will apply the portfolio choice and diversification theory from class to some actual real-life scenarios. Extensive use will be made of Excel (or any other mathematical package). The project must be done in your groups.

Furthermore, the project will involve presentation components. Each group must also prepare a) one 10-minute presentation on an intermediate component of the project due as the course progresses, as well as b) a final 15-minute presentation summarizing your work. You may sign up for presentation slots as soon as groups are formed.
- **Participation:** A component of your participation grade will consist of a “team participation score” from your teammates. Throughout the course, you are to pull your weight and work equally hard as your other teammates. You and your teammates will rate the participation of each team member upon completing your final project presentation.
- **Grading Policy:** All course assessment items are graded on a 20-point scale and converted to letter grades based on grade standard and grading distribution consistent with [GSM MBA Program Policy & Procedures](#).

Honor Code and Academic Integrity

Academic integrity exists when students and faculty seek knowledge honestly, fairly, with mutual respect and trust, and accept responsibility for their actions and the consequences of those actions. Without academic integrity, there can be no trust or reliance on the effectiveness, accuracy, or value of a University's teaching, learning, research, or public service activities. It is therefore key that we understand what academic integrity is, why it is important, and how to help it flourish on college campuses.

1. It is expected that all class members will treat each other with respect and dignity.
2. It is not acceptable behavior to insult, harass, or demean any member of the class.
3. Professional business behavior should be modeled in the classroom, including the use of appropriate language, jokes, or stories.

Code of Academic Conduct: Students are expected to conform with the code of academic conduct, which can be found here: <http://sja.ucdavis.edu/files/cac.pdf>. In general, students are also expected adhere to the UC Davis Principles of Community. For more information, please review the [Academic Conduct Booklet](#). Academic Affairs, as well as the Academic Director of the MBA Program, will be notified of any violations, and will take appropriate action.

Course Schedule

Important Notes

- Meeting are held either in Betty Irene Moore Hall 1000 (BIM-1000) in Sacramento, Bishop Ranch 1503 (BR-1503), or remotely by Zoom.
- **In-person meetings are held only when public health protocol allows, otherwise by Zoom.** In-person seats are available only to students enrolled in that section.
- When sessions are held by zoom, you may attend either section.
- **Complete required one hour (~50 minutes) of asynchronous instruction (recorded videos) PRIOR to each week's meeting.**
- Complete all required readings PRIOR to each week's meeting.
- All readings in this course are considered secondary materials and are for providing background information and reinforcing materials.
- Optional readings are intended for students intending to pursue this topic further.

Week 1: Investors and Portfolio Management

Friday, 2-Oct-2020, 2:00pm-3:50pm (Zoom) or 4:00pm-5:50pm (BR-1503*)

- Required Reading: BKM, Chapters 1.1-1.5, 1.8, 28.1-28.3.
- Optional Reading: BKM, Chapters 1.6, 28.4-28.7.

Week 2: Portfolio Returns and Risk

Friday, 9-Oct-2020, 2:00pm-3:50pm (BIM-1000*) or 4:00pm-5:50pm (Zoom)

- Required Reading: BKM, Chapters 2.4, 4.1, 4.3, 4.6, 5.2, 5.4.
- Optional Reading: BKM, Chapters 2.1-2.3, 4.7-4.8, 5.1, 5.3.
- Complete Group Assignment #1

Week 3: Capital Market Assumptions (Part A)

Friday, 16-Oct-2020, 2:00pm-3:50pm (Zoom) or 4:00pm-5:50pm (BR-1503*)

- Required Reading: BKM, Chapters 3.8-3.9, 5.5-5.6, 5.8.
- Optional Reading: BKM, Chapters 3.7, 5.7, 5.9.
- Review basic statistics from core statistics course.
- Complete Individual Assignment #1.

Week 4: Capital Market Assumptions (Part B)

Friday, 23-Oct-2020, 2:00pm-3:50pm (BIM-1000*) or 4:00pm-5:50pm (Zoom)

- Required Reading: BKM, Chapters 17.2.
- Optional Reading: BKM, Chapters 17.5.
- Review regression analysis from core statistics course.
- Complete Group Assignment #2

Week 5: Optimal Asset Allocation (Part A)

Friday, 30-Oct-2020, 2:00pm-3:50pm (Zoom) or 4:00pm-5:50pm (BR-1503*)

- Required Reading: BKM, Chapters 7.1-7.4, 25.2.
- Complete Individual Assignment #2.
- Turn in intermediate part 1 of Course Project (due: 24hrs prior to meeting).

Week 6: Optimal Asset Allocation (Part B)

Friday, 6-Nov-2020, 2:00pm-3:50pm (BIM-1000*) or 4:00pm-5:50pm (Zoom)

- Required Reading: BKM, Chapters 6.2-6.4.
- Complete Group Assignment #3.

Week 7: Stock Selection (Part A)

Friday, 13-Nov-2020, 2:00pm-3:50pm (Zoom) or 4:00pm-5:50pm (BR-1503*)

- Complete Individual Assignment #3.
- Turn in intermediate part 2 of Course Project (due: 24hrs prior to meeting).

Week 8: Stock Selection (Part B)

Friday, 20-Nov-2020, 2:00pm-3:50pm (BIM-1000*) or 4:00pm-5:50pm (Zoom)

- Required Reading: BKM, Chapters 8.1-8.4,
and “*New Facts in Finance*” by J. Cochrane.
- Optional Reading: BKM, Chapters 8.5.
- Complete Group Assignment #4

Week 9: Equilibrium Models

Friday, 3-Dec-2020, 2:00pm-3:50pm (Zoom) or 4:00pm-5:50pm (BR-1503*)

- Required Reading: BKM, Chapters 9.1, 9.3-9.4, 10 (all).
- Optional Reading: BKM, Chapters 9.2.
- Complete Individual Assignment #4.
- Turn in intermediate part 3 of Course Project (due: 24hrs prior to meeting).

Week 10: Performance Evaluation

Friday, 11-Dec-2020, 2:00pm-3:50pm (BIM-1000*) or 4:00pm-5:50pm (Zoom)

- Required Reading: BKM, Chapters 11 (all).
- Optional Reading: BKM, Chapters 12.1.
- Complete Group Assignment #5

Week 11: Final Project Presentation

Schedule a 30-minute meeting during

Friday, 9-Oct-2020, 2:00pm-6:00pm (Zoom) or TBD (Zoom)

- Complete Course Project Executive Summary
- Prepare Course Project Presentation

GETTING GSM CAMPUS READY BAY AREA PROGRAM - COVID SAFETY PROCEDURES



*Keeping our community safe and healthy will
require patience, consideration and empathy.
Welcome back to campus for a unique year.
We are in it together and are here for you!*

BEFORE YOU ARRIVE AT THE BAY AREA CAMPUS

Please assess how you are feeling. **DO NOT COME TO CAMPUS IF YOU ARE NOT FEELING WELL.** Err on the side of caution. Your professors and organization leaders will not penalize you for staying home.

While on campus and in the building, we expect you to follow these guidelines:

- Wear a face covering at all times.
- Maintain social distancing of six feet from other individuals.
- A [Daily Symptom Survey \(CAS login\)](#) which you can complete via a smart phone and is required to be on campus.
- Wash your hands frequently and use sanitizer. The GSM is providing several hand sanitizer stations located throughout the building.
- Stay home if you are sick.
- Employees and students must report a COVID-19 diagnosis for themselves or someone with whom they share a residence. To report a positive case or concern, email reportcovid@ucdavis.edu. You may also visit the [Campus Reporting](#) website for more information.



symptomsurvey.ucdavis.edu



If the GSM is allowed to reopen the building and hold in-person classes, you can expect the following in addition to the guidelines above. Entrance will only be allowed at the front of the building and the building will be closed to the public.

As community members enter the Bay Area campus at Bishop Ranch 15 Suite 190, you will be “screened” by staff at the front. Please allow plenty of time, as we expect lines. The screening will include:

- A temperature check. Those with a temperature of 100.4 or higher will not be allowed into the facility.
- A “screened” sticker for you to wear while in Bay Area Campus.

All guidelines follow [Campus Policy 290-01](#). While in the building, please follow the safety signage posted throughout the building. Signage has been placed for your safety. We appreciate your cooperation to keep yourself and others safe. If you have any questions or concerns about COVID Safety procedures and protocol, please contact: **Christina Sanchez** (chrsanchez@ucdavis.edu)

Director of Project & Instructional Resources
530-574-7438 (cell)

gsm.ucdavis.edu/getting-gsm-ready

