



## INVESTMENT MANAGEMENT

FINANCE 367

FALL SEMESTER, 2018

### Professor

John M. Griffin

CBA 6.262, [john.griffin@utexas.edu](mailto:john.griffin@utexas.edu)

Office Hours: Mondays 3:30-4pm, Tuesdays 11-11:30am, or by appointment.

### Teaching Assistants

Lee Selzer ([lee.seltzer@mcombs.utexas.edu](mailto:lee.seltzer@mcombs.utexas.edu))

Office Hours: Monday 1:30-2:30pm, CBA 3.332C

Thomas Lee ([thomas.lee@mcombs.utexas.edu](mailto:thomas.lee@mcombs.utexas.edu))

Office Hours: Monday 5-6:00pm, CBA 5.324D

Jangwoo Lee ([matizoma@gmail.com](mailto:matizoma@gmail.com))

Office Hours: Tuesday 1:30-2:30pm, CBA 5.336

Omer Ahmed ([omer.ahmad@mba19.mcombs.utexas.edu](mailto:omer.ahmad@mba19.mcombs.utexas.edu))

Office Hours: Tuesday 5-6:00pm, CBA 5.336

Travis Cunningham ([travis.cunningham@mba19.mcombs.utexas.edu](mailto:travis.cunningham@mba19.mcombs.utexas.edu))

Office Hours: Wednesday 1:30-2:30pm, CBA 5.336

James Miller ([james.miller@mba19.mcombs.utexas.edu](mailto:james.miller@mba19.mcombs.utexas.edu))

Office Hours: Thursday 1:30-2:30pm, CBA 5.336

Brady Wyllie ([bpewyllie@gmail.com](mailto:bpewyllie@gmail.com))

Office Hours: Friday 12:30-1:30pm, CBA 5.324D

### Problem Sessions

Wednesdays, 6:30-7:30pm, GSB 2.120

Thursdays, 6:30-7:30pm, GSB 2.120

### Course Objectives

This is an introductory course in the field of Investments.

The course will focus on the application of financial theory to the issues and problems of investment management. Topics will include portfolio optimization and asset allocation, the basics of bond and derivative pricing, the theory of asset pricing models and their implications for investments, as well as evaluating investment management performance.

The main objective of this course is to provide students with a framework for making financial decisions related to Investments. These decisions are relevant for institutional investors (pension, mutual, and hedge funds), individual investors, corporate treasurers, and anyone who seeks to use or understand domestic or international investing.

### Prerequisites

Finance 367 is a Restricted Course for students who are currently enrolled in a major program in the College of Business and Administration. Note that several prerequisites apply for this course and are

published in the Course Schedule. Prior completion of Finance 357 or Finance 357 H, Statistics 371G or Statistics 371 H are among these requirements. In addition, proficiency in mathematics and spreadsheet packages is assumed. Students who are uncertain as to whether they satisfy these requirements should notify the instructor.

## Text and Materials

### Required

**Textbook:** Bodie, Kane & Marcus, Investments (with Connect Plus access), 2018, **11/e**, McGraw-Hill.

**Case Materials:** Investment Management Coursebook is available at the University Co-Op. Individual cases (referenced in case assignments) can also be purchased directly from Harvard Business School Press.

**Lecture Notes:** Available online on the UT Canvas system before class. Lecture notes are meant as an outline to reduce the amount of rote copying of definitions and formulas but certainly not as a self-contained lecture summary. Reading the lecture notes without attending class will most likely be of little benefit.

**Additional Readings:** Additional timely readings may be made available as Handouts. If you miss the handouts, it is your responsibility to make copies from another student.

**Strongly Recommended:** Bloomberg.com, Wall Street Journal, Financial Times, The Economist, or some other Financial News source.

## Course Requirements and Grading

Midterms (40%), Final (30%), Cases (10%), Homework (10%), Participation (10%)

Letter grades for the course will be based on the student's ranking in the course relative to other students across all sections and instructors. Based on guidelines from the BBA Program Office, there will be about 40% A's, 45% B's, and 15% C's or below. Plus/minus grades will be assigned for the final grade.

There is no opportunity in this course to do "extra credit" work. Your grade will be determined solely by the components listed above. If you are taking the course pass/fail you must complete all projects, take all exams, and earn a passing grade in order to pass.

## Exams

Midterm exams will be at common times on Monday evenings, as indicated on the schedule below. Please put these on your calendar and plan around them. The final exam will be at a common time scheduled by the registrar.

Each midterm exam will include questions up to that point in the class. The final exam will be comprehensive and will cover material from lectures, class discussions, assigned readings, and cases. Exams will strive to test comprehension, not merely memorization skills. Exams will include a mix of multiple choice, numerical, and short answer questions. The one exception is midterm 3, which will likely be 100% multiple choice to facilitate grading the exam more quickly given the short amount of time between midterm 3 and the end of the semester.

Exams will not be returned and can be reviewed only during TA office hours during the two weeks after they are graded.

If it helps your overall course grade, we will replace your lowest midterm score with your final exam score. There will be no makeup midterms. If you need to miss a midterm for any reason, we will substitute your final exam score for the midterm. This can be done for only one midterm.

Keeping up with the course material throughout the semester is by far the best way of studying for the exams. After each class, you should do your best to make sure you understand everything we talked about in that class. Doing the homework, reviewing notes, reading relevant chapters from the textbook, looking at solutions to homeworks, and asking questions during office hours or the next lecture are all good ways of keeping up with the material in the course.

## Homework

Homework questions must be answered and submitted individually but may be discussed with other students.

Online homeworks are assigned through McGraw-Hill's Connect system. To establish a Connect account:

1. Go <http://connect.mheducation.com/class/fin-367-fall-2018>.
2. Click on the "register now" button. If you have trouble with registration, please contact Customer Support at <http://mpss.mhhe.com/>.
3. If possible, use your UT EID as your first name when you register.

Homeworks will be assigned weekly and are due by 11:59pm Sunday night. The first homework (covering Chapters 1 and 5) will be due on Sunday, September 9. Subsequent homeworks will be due weekly and will cover material from the previous 2-3 lectures.

There will be a total of 11 homeworks, each consisting of 5-10 questions. Each homework will be equally weighted. The Connect system will give you two attempts to answer each question without impacting your grade. Additionally, we will drop one question when calculating your grade on the homework (i.e., you may miss one question without impacting your grade). Your overall homework grade will be based on your 10 best homeworks (i.e., you may drop one homework). If you are sick, traveling, or have any other excused or unexcused absence, this may be your dropped homework.

## Cases

There will be three cases. Case 1 must be done individually with no collaboration from other class participants. Cases 2 and 3 may be done with up to two other students. Each group should submit a single writeup with the names of all group members.

The cases we will use are real-world situations where a decision-maker needs to address or resolve some type of financial problem. Part of the task will be to analyze the problem outlined in the case, and an equally important part will be to make decisions and to develop action implementations. Making decisions and planning actions based on your analysis is hard work, but it can also be fun. Most decisions in this class (and in the real world) will need to be made with incomplete information. Some problems will be clearly stated, others will be more difficult to discern. It is important to remember that the process in arriving at your answers or decisions may be the most important part of the exercise. Intelligent and reasonable people can end up with far-different conclusions depending on their initial assumptions (and still both get good grades!).

In general, the write-ups are to be brief and focused. You will *not* be awarded points for explaining aspects in the case but should focus on the solutions to the problems in the case. All exhibits, such as spreadsheet analysis or figures and tables, should be clearly labeled and referenced, and included in your word or pdf document. The report will be graded on the basis of the quality of the research, as well as of the professional presentation (neatness, clarity of exposition, etc.). The solutions must respond carefully to the course questions.

All cases must be submitted in hard copy with an electronic copy submitted online before the deadline. All answers should be in a word file. Supporting calculations should be included in an excel file. The electronic and hard copies must match exactly or it is considered cheating. Cases are often screened for

plagiarism and similarities. Any material used in the case should be cited appropriately.

Professors and TAs are happy to provide clarifying information regarding the case and related concepts from class but are not there to walk a student through the case. TAs can answer some clarifying and conceptual questions but will not answer detailed questions about how to do specific calculations in the cases. Independent thought is necessary. To incentivize studying and working on cases in a timely manner, we can only guarantee a timely response to emails regarding case if they are received by 5pm the day before the case is due.

### **Class Participation**

Students are expected to attend classes and act in a professional manner. Cell phones, laptops, and tablets are not allowed because they distract you, your neighbors, and me. Students must attend their assigned section unless they have specific permission from the Professor to attend a different section. Class participation consists of positive and constructive comments, questions, remarks, and answers in class. I expect you to come to class on time, fully prepared, and ready to participate in the discussion. Effective contribution means participating such that your answer or question moves our analysis and understanding forward. Note that not all comments or questions in class contribute positively to your class contribution grade. I routinely cold-call, and at my discretion, I may test your preparation for class with unannounced quizzes.

To encourage and enable class participation, bring your name plate to lecture with you every day. If you lost your name plate or never received one, make one with paper and a thick pen.

In addition to participating in class, all students are also required to attend a finance-related event or talk at some point during semester and submit a short discussion of what was learned. Fulfilling this requirement will be worth three out of ten points allocated to participation. McCombs is sponsoring a conference marking that 10<sup>th</sup> anniversary of the financial crisis on Friday, October 26. Attending a session at this conference would be a good way to fulfil this requirement. Other events are also acceptable.

### **Calculator**

Each student is required to bring a calculator to classes and tests. At a minimum, the calculator must have  $\ln$ ,  $e^x$ , and  $x^y$ , buttons. Although a business calculator is not required for the course, I strongly encourage its use as it will be helpful for this as well as future course work in finance, accounting, and other business disciplines. A student business calculator (such as HP 10bII, TI BAII Plus or calculators with similar capabilities) should be adequate for all business courses. Because of the variety of calculators used, students will be expected to learn how to use their calculators on their own. Programmable calculators must be cleared before each test, and there is no sharing of calculators during any test. Phones, tablets, laptops, or anything else with an internet connection cannot be used as a calculator during exams.

### **Email**

The professors and TAs will respond to emails about course material or assignments. Response times may be slower on weekends so please plan ahead, particularly around exams and cases. To incentivize studying and working on assignments in a timely manner, we can only guarantee a timely response to emails regarding an exam or assignment if they are received by 5pm the day before a deadline or exam.

## Problem Sessions

The teaching assistants will lead weekly problem sessions related to the material we are covering in class on Wednesdays (6:30-7:30pm, GSB 2.120) and Thursdays (6:30-7:30pm, GSB 2.120). This will be a good chance to get extra practice working through problems, and I encourage everyone to take advantage of it.

## Course Policies

*Fairness to Students:* I strive to treat students with dignity and fairness. This does not mean that I will agree with your ideas. If you feel that I have been unfair in any way, please let me know.

*Readings:* Readings should be done in advance of the class in which material will be discussed. The outline below will advise of the relevant topic of discussion. In addition to the cases and textbook, I will occasionally assign additional readings, which are also mandatory.

*Electronic devices:* Cell phones, laptops, and tablets are not allowed in class because they distract you, your neighbors, and me. Please put away and silence all devices before class starts.

*Grading:* There are no verbal appeals of grade changes. Exams will not be returned and can be reviewed only during TA office hours during the two weeks following the reception of the grade. You should submit a written statement explaining the problem within one week of receiving your grade and we will be happy to re-grade any exam or assignment. The entire exam or case will be re-graded and the score may increase, remain the same, or decrease.

*Academic Honesty:* I take academic honesty very seriously. I expect you to adhere to The McCombs Code of Ethics and to comply with collaboration restrictions noted in the syllabus and on assignments throughout the semester.

*Recruiting Conflicts:* Conflicts occasionally arise between classes and the search for employment. We understand how important the job search process is to you, and McCombs provides many resources in support of career exploration and search. However, UT is first and foremost an educational institution and your BBA degree will be the credential that certifies your education. As such, education will take precedent whenever such a conflict arises. All companies recruiting at McCombs are informed of this fact.

For Finance 367, you will not be excused from Midterm Exams, Cases, Homeworks, or the Final Exam due to a recruiting conflict. If you choose to miss a Midterm for an interview or other recruiting reason, it will be treated like any other absence: that exam will be dropped and its weight moved to the Final Exam (this can only be used for one Midterm, as described above). If you choose to miss the Final Exam or another assignment due to recruiting, you will receive a 0.

If you choose to miss a lecture for recruiting, inform your Professor well in advance and be sure to catch up on the material you miss. Catching up on material you miss is solely your responsibility. At their discretion, your Professor may or may not excuse this absence when computing your participation grade.

**Summary of Deadlines**

Sun	9/9/2018	11:59pm	Homework 1
Tues	9/11/2018	4:00pm	Case 1
Sun	9/16/2018	11:59pm	Homework 2
Sun	9/23/2018	11:59pm	Homework 3
Sun	9/30/2018	11:59pm	Homework 4
Mon	10/1/2018	7:00pm	Midterm 1
Fri	10/12/2018	4:00pm	Case 2
Sun	10/14/2018	11:59pm	Homework 5
Sun	10/21/2018	11:59pm	Homework 6
Sun	10/28/2018	11:59pm	Homework 7
Mon	10/29/2018	7:00pm	Midterm 2
Sun	11/11/2018	11:59pm	Homework 8
Tue	11/13/2018	4:00pm	Case 3
Sun	11/18/2018	11:59pm	Homework 9
Mon	11/19/2018	7:00pm	Midterm 3
Sun	12/2/2018	11:59pm	Homework 10
Sun	12/9/2018	11:59pm	Homework 11
??	12/13-12/19	??	Final Exam

### Tentative Class Schedule

All readings correspond to Bodie, Kane, and Marcus, Eleventh Edition. Readings are to be read ahead of class. Schedule Subject to Change check the latest version via Canvas.

Week 1		Thursday, Aug 30 <b><u>The Investment Environment</u></b>  - Ch 1
Week 2	Tuesday, Sept 4 <b><u>Asset Allocation</u></b>  - Ch 2	Thursday, Sept 6 <b><u>Risk, Return, and the Historical Record</u></b>  - Ch 5-5.8
Week 3	Tuesday, Sept 11 <b><u>Risk Aversion and Capital Allocation to Risky Assets</u></b>  - Ch 6  <b>Case 1 Due Tuesday 9/11 at 4pm in the Finance office 6.222</b>	Thursday, Sept 13 <b><u>Introduction to Portfolio Theory and the Harvard Management Company</u></b>  Harvard Management Company Case and HBS Note on Portfolio Optimization
Week 4	Tuesday, Sept 18 <b><u>Optimal Risky Portfolios</u></b>  - Ch 7-7.4	Thursday, Sept 20 <b><u>Index Models</u></b>  - Ch 8
Week 5	Tuesday, Sept 25 <b><u>The Capital Asset Pricing Model</u></b>  - Ch 9-9.3	Thursday, Sept 27 <b><u>The Capital Asset Pricing Model 2</u></b>  - Ch 9-9.3

Week 6	<p style="text-align: center;"><b><u>MONDAY</u></b>, Oct 1</p> <p style="text-align: center;"><b><u>Midterm 1, Evening Exam</u></b>  <u>(No class during class time)</u>  7:00PM - 9:00PM</p>	<p style="text-align: center;">Thursday, Oct 4</p> <p style="text-align: center;"><b><u>The Efficient Market Hypothesis and Empirical Evidence</u></b></p> <ul style="list-style-type: none"> <li>- Ch 11</li> <li>- Ch 13.1-13.3</li> </ul>
Week 7	<p style="text-align: center;">Tuesday, Oct 9</p> <p style="text-align: center;"><b><u>Behavioral Finance</u></b></p> <ul style="list-style-type: none"> <li>- Ch 12</li> </ul>	<p style="text-align: center;">Thursday, Oct 11</p> <p style="text-align: center;"><b><u>Multifactor models</u></b></p> <ul style="list-style-type: none"> <li>- Ch 10.1, 10.4-10.5</li> </ul> <p style="text-align: center;"><b>Case 2 Due Friday 10/12 at 4pm in the Finance office 6.222</b></p>
Week 8	<p style="text-align: center;">Tuesday, Oct 16</p> <p style="text-align: center;"><b><u>Dimension Fund Advisors and Arbitrage</u></b></p> <ul style="list-style-type: none"> <li>- DFA Case</li> <li>- Ch 10.2, pp 312-313</li> </ul>	<p style="text-align: center;">Thursday, Oct 18</p> <p style="text-align: center;"><b><u>Bond Prices and Yields</u></b></p> <ul style="list-style-type: none"> <li>- Ch 14</li> </ul>
Week 9	<p style="text-align: center;">Tuesday, Oct 23</p> <p style="text-align: center;"><b><u>The Term Structure of Interest Rates</u></b></p> <ul style="list-style-type: none"> <li>- Ch 15</li> </ul>	<p style="text-align: center;">Thursday, Oct 25</p> <p style="text-align: center;"><b><u>Managing Bond Portfolios</u></b></p> <ul style="list-style-type: none"> <li>- Ch 16</li> </ul>
Week 10	<p style="text-align: center;"><b><u>MONDAY</u></b>, Oct 29</p> <p style="text-align: center;"><b><u>Midterm 2, Evening Exam</u></b>  <u>(No class during class time)</u>  7:00PM - 9:00PM</p>	<p style="text-align: center;">Thursday, Nov 1</p> <p style="text-align: center;"><b><u>Securities Trading</u></b></p> <ul style="list-style-type: none"> <li>- Ch 3</li> </ul>
Week 11	<p style="text-align: center;">Tuesday, Nov 6</p> <p style="text-align: center;"><b><u>Options Markets: Introduction</u></b></p> <ul style="list-style-type: none"> <li>- Ch 20</li> </ul>	<p style="text-align: center;">Thursday, Nov 8</p> <p style="text-align: center;"><b><u>Option Valuation</u></b></p> <ul style="list-style-type: none"> <li>- Ch 21</li> </ul>

<p>Week 12</p>	<p>Tuesday, Nov 13 <b><u>Futures Markets 1</u></b></p> <p>- Ch 22</p> <p><b>Case 3 Due Tuesday 11/13 at 4pm in the Finance office 6.222</b></p>	<p>Thursday, Nov 15 <b><u>Futures Markets 2</u></b></p> <p>- Ch 23</p>
<p>Week 13</p>	<p><b><u>MONDAY</u></b>, Nov 19</p> <p><b><u>Midterm 3, Evening Exam</u></b> (No class during class time) 7:00PM - 9:00PM</p>	<p>Thursday, Nov 22</p> <p>No Class (Thanksgiving Holiday)</p>
<p>Week 14</p>	<p>Tuesday, Nov 27 <b><u>Investment in Practice</u></b></p> <p><b><u>Evening Guest Speaker</u></b> (No class during class time) 5:00PM - 6:30PM</p> <p>- Readings TBD</p>	<p>Thursday, Nov 29 <b><u>Investment Companies</u></b></p> <p>- Ch 4</p>
<p>Week 15</p>	<p>Tuesday, Dec 4 <b><u>Portfolio Performance Evaluation</u></b></p> <p>- Ch 24</p>	<p>Thursday, Dec 6 <b><u>The Financial Crisis</u></b></p> <p>- Ch 1.7, 2.2</p>

**Final—Set by Registrar at Common Exam Time**

## Important Notifications

### Students with Disabilities

Students with disabilities may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities, 512-471-6259, <http://www.utexas.edu/diversity/ddce/ssd/>.

### Religious Holy Days

By UT Austin policy, you must notify me of your pending absence at least fourteen days prior to the date of observance of a religious holy day. If you must miss a class, an examination, a work assignment, or a project in order to observe a religious holy day, you will be given an opportunity to complete the missed work within a reasonable time after the absence.

### Policy on Scholastic Dishonesty

The McCombs School of Business has no tolerance for acts of scholastic dishonesty. The responsibilities of both students and faculty with regard to scholastic dishonesty are described in detail in the BBA Program's Statement on Scholastic Dishonesty at <http://www.mcombs.utexas.edu/BBA/Code-of-Ethics.aspx>. By teaching this course, I have agreed to observe all faculty responsibilities described in that document. By enrolling in this class, you have agreed to observe all student responsibilities described in that document. If the application of the Statement on Scholastic Dishonesty to this class or its assignments is unclear in any way, it is your responsibility to ask me for clarification. 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, the integrity of the University, and the value of our academic brand, policies on scholastic dishonesty will be strictly enforced. You should refer to the Student Judicial Services website at <http://deanofstudents.utexas.edu/sjs/> to access the official University policies and procedures on scholastic dishonesty as well as further elaboration on what constitutes scholastic dishonesty.

### Campus Safety

Please note the following recommendations regarding emergency evacuation, provided by the Office of Campus Safety and Security, 512-471-5767, <http://www.utexas.edu/safety>:

- Occupants of buildings on The University of Texas at Austin campus are required to evacuate buildings when a fire alarm is activated. Alarm activation or announcement requires exiting and assembling outside.
- Familiarize yourself with all exit doors of each classroom and building you may occupy. Remember that the nearest exit door may not be the one you used when entering the building.
- Students requiring assistance in evacuation should inform the instructor in writing during the first week of class.
- In the event of an evacuation, follow the instruction of faculty or class instructors.
- Do not re-enter a building unless given instructions by the following: Austin Fire Department, The University of Texas at Austin Police Department, or Fire Prevention Services office.
- Behavior Concerns Advice Line (BCAL): 512-232-5050
- Further information regarding emergency evacuation routes and emergency procedures can be found at: <http://www.utexas.edu/emergency>.

### Privacy in Canvas

Information in Canvas is protected by your UTEID login. Please be aware that I will use a merged Canvas site with other sections of the course. This will allow students in other sections to see that you are enrolled in the course and send you email from within Canvas. However, they will not actually learn your email address and no other personal data will be revealed through Canvas. If you have any concerns, please contact the ITS Help Desk at 475-9400 for help removing your name from view of other students.