

Administrative Matters

Instructor name and email address. Professor Jillian Grennan (she/her), jillian.grennan@emory.edu My preferred way to be contacted is via email. I also check Canvas for messages, especially about assignments, but less frequently than email.

Office hours. Wednesday 1:15-2:45 p.m. and by appointment. Please email me to set up a Zoom chat or in-person meeting. The TA will also hold office hours on Wednesday afternoon.

TA. Niall Peat, Economics PhD student, niall.peat@emory.edu

Class recordings. Posted to Canvas after class, including both Zoom recordings and in-person meetings.

Please do not share class recordings. Advancements in technology have made it possible to create deepfake images and video readily. Therefore, please do not disseminate or share of any classroom recording without my permission as it would be considered "misuse." It is important to recognize that the lectures presented through video conferencing and other materials posted on Canvas are for the sole purpose of educating the students enrolled in the course. The release of such information (including but not limited to directly sharing, screen capturing, or recording content) is strictly prohibited. Doing so without my permission will be considered an Honor Code violation and may also be a violation of other state and federal laws, such as the Copyright Act. At my discretion, violations of this policy may also have an adverse effect on the student's grade.

Course Description and Learning Outcomes

This course explores how market participants respond to and incorporate sustainability criteria such as environmental, social, and governance (ESG) considerations into their decision-making. This course aims to give students a solid foundation in the financial economics of sustainability and to critically examine the strategies used in capital markets to achieve sustainability goals. We will consider the economic risks and opportunities that fall under the sustainability lens and their role in driving long-term value creation. For instance, we will explore various ways financial institutions have modeled climate risks and analyze how communities most impacted by injustice leverage investment strategies to pursue social justice. Throughout the course, we will examine how big data and artificial intelligence are being used to help tackle sustainability challenges.

The overall goal of the course is to help you become leaders in the sustainability industry by introducing you to the principles and methodologies of sustainable investing and by providing you with insights into the practical environment in which investment and divestment decisions

are made. This course will involve a mixture of lecture, interactive case discussions, demonstration of ESG tools, and student-led presentations on sustainable investments.

Course Prerequisites

Some prior background in economics, especially intermediate microeconomics or econometrics is useful. But most of this material is applied, and you should be able to grasp the concepts without prior coursework. Also, you can ask me or the TA to explain key concepts if you either forget or have never learned.

Textbooks

1. The Financial Ecosystem: the role of finance in achieving sustainability, Satyajit Bose, Dong Guo & Anne Simpson, Palgrave Macmillan, 2019. ISBN: 3030056236

I will also be distributing reading materials such as academic articles, or news articles on Canvas (see next).

Course Resources

I will manage course announcements and assignments through Canvas. If you are unable to access the Canvas site, please contact me as soon as possible. A copy of the syllabus, detailed reading lists, and copies of class materials can be found there. Class materials, including slides, will be posted to Canvas immediately before each class. Materials in this course are protected by United States copyright laws. I am the copyright holder of the materials I create, including notes, handouts, slides, and videos. You may make copies of course materials for your own use and you may share the materials with other students enrolled in this course. You may not publicly distribute the course materials without my written permission.

Student Technology Help

If technical difficulties prevent you from completing course work, please alert me immediately. However, understand that I cannot assist you with technical problems. Please use the technical support resources available through Emory. Be sure to document all interactions with tech support (e.g., save emails). For several different ways to get assistance and troubleshoot problems, see https://classes.emory.edu/gethelp/index.html

For Zoom assistance, you can get support from the Zoom Help Center website: https://support.zoom.us/hc/en-us

For computing support, visit the Student Technology Support desk Mon-Fri for walk-up assistance on Level 1 of Woodruff Library. For after-hours support, call 404-727-7777 or visit help.emory.edu.

For presentations, please note that all classrooms are equipped with a podium and an overhead projector.

- **Bloomberg:** Accessing Bloomberg requires in-person access to the Goizueta Business Library Bloomberg Terminals. Note the library does have a detailed guide on Bloomberg ESG Search and Bloomberg ESG Content and Coverage: https://libraries.emory.edu/business/research-learning/databases/bloomberg
- FactSet: financial information on companies, including equity analysts research reports. Guide for getting access via your emory email. https://libraries.emory.edu/business/research-learning/databases/factset
- Ethos: source for Sustainability metrics in detail. https://www.ethosesg.com/
- Wall Street Journal: Free access via the library.

 https://libraries.emory.edu/business/research-learning/databases/wall-street-journal-wsjcom
- **SEC Edgar:** Easy search of company and fund filings. https://www.sec.gov/search-filings

Grading and Evaluation

I will evaluate your performance in the following areas:

- Written Assignments (80%)
 - Assignment #1 (10%): Due September 17th (Review an existing sustainability fund, can do with partner, requires one presentation)
 - Assignment #2 (10%): Due September 24th (Engine No. 1 write-up, no presentation, can do with partner)
 - Assignment #3 (10%): Due October 3rd (Propose your own shareholder action, can do with a partner, requires one presentation)
 - Assignment #4 (10%): Due October 10th (DBL Partners write-up, no presentation, can do with partner)
 - Assignment #5 (10%): Due October 22nd (Just Climate write-up, no presentation, can do with partner)
 - Assignment #6 (10%): Due November 7th (Social justice fund, can do with a partner, requires one presentation)
 - Assignment #7 (5%): Due November 21st (Sector presentation, can do with partner, requires one presentation)
 - Assignment #8 (15%): Due December 3rd (Final Pitch, must do individually and present)
- Class Contribution and Attendance (10%): Current events (5%) and contribution (5%)
- **Personal Reflection (10%):** Your chance to grow as a leader. There are no right or wrong answers, I want to hear your reflections on issues raised in class and see how you apply critical thinking.
- Extra-credit presentations (up to 2.5%): In association with "Written Assignments." You need to sign-up to present one class prior to the due date. I will remind you.

Written Assignments. There are eight written assignments. Some are to be done, which are to be done individually as take-home assignments. Grammar and spelling count, please proofread

your papers. To be eligible for full credit, assignments must be submitted by the deadline stated in the syllabus. Absent an extension based on "extraordinary circumstances" (see below for the definition of "extraordinary circumstances"), assignments completed late will receive an automatic 20%-per-day reduction in points, beginning after a 10-minute grace period (e.g. if an assignment is due at 11:59pm on Friday, it will automatically lose 20% at 12:10am on Saturday morning, an additional 20% at 12:10am on Sunday morning, etc.).

Class Contribution and Attendance. Class contribution and attendance are comprised of two parts: (i) a student-led discussion of current events, and (ii) attendance, communication, and discussion in class.

First, given that the economics of sustainability is continuously evolving, an important component of this course is to get up-to-date on current trends. Each class will begin with a student-led discussion of current events in this space. This involves summarizing recent relevant news articles, highlighting why they is newsworthy, and leading a discussion of what the economic implications are, if any. The final step involves posing questions to the class to help them get more actively involved in current discussions in this space. Each student will be expected to lead the discussion of current events at least once during the semester to get full credit. We will have a sign-up on the first meeting date.

Second, class is always more fun when you ask questions and are engaging with the material. And in some classes, we will work on in-class assignments. Therefore, attendance and active contribution by answering questions, commenting on applications and examples, and reflecting on potential economic issues is critical for everyone's learning. Much of our class discussion will be driven by the content covered in class that day. As such, absent special circumstances noted below, I expect students to attend each class session and to be prepared to discuss the relevant topics. During discussions, quality is what matters. Effective class participation moves the debate forward by building on previous comments and creating an inclusive environment for you and all of your classmates.

As noted above, all classes will be recorded to accommodate students who may be unable to attend a live session for any number of reasons. If you are unable to attend a class, please notify me of your expected absence in advance of class, if possible. If you are unable to provide advance notice due to an emergency, please contact me as soon as possible with an explanation for the lack of advance notice so that it does not adversely affect your grade.

Missing one lecture would cause the final grade to be reduced by one percentage point. Other actions that would cause your class contribution grade to be lower include using your phone during class, doing other work during class, sleeping during class, and/or discussing your plans for the weekend or something similar when you have been asked to work on an in-class activity. Any class where these activities are observed will result in a one percentage point reduction. Finally, while you may pass if you are called on in class and have nothing to contribute, you have at most two passes without affecting the final grade. Beyond two passes, failing to answer or

respond when called upon would cause final grades to be reduced by half a percentage point each time it happens.

Make-up for Missed Classes. Students who miss class can make up for it by sending me an email with a news article that is relevant to sustainability, along with a one-paragraph explanation of why the article is relevant to the course.

Class Notes. Taking class notes can be very useful. I also want to offer some evidence that taking notes by hand may improve your own comprehension. Please see for example, this paper for the actual research (https://journals.sagepub.com/doi/abs/10.1177/0956797614524581) and/or this nice op-ed (https://www.washingtonpost.com/posteverything/wp/2014/12/30/this-year-im-resolving-to-ban-laptops-from-my-classroom/) summarizing recent research.

Personal Reflection. Each individual will submit a personal reflection. If you make a good effort and follow the directions, you will get full credit for the reflections. You should submit a 2-3 page (double-spaced Times New Roman 12 pt., 1 inch margins) reflection with your thoughts about the economics of sustainability. You may choose your own topic for the reflection. The goal of your personal reflection is to develop your own original thoughts about sustainability. In seeking to generate a new idea, do not be afraid to take a risk. The key to the reflection is the quality of your idea, so please do not feel that you have to fill many pages with writing for the sake of writing. Instead, what I seek is expositional clarity in relation to your idea. Summarize your idea, and then explain how it fits into what you have learned in class, and what your unique angle or economic perspective you are bringing to existing debates.

Extra-credit Presentations. Individuals will be able to present 10-minute presentations with slides for any of the case study assignments in class on the day that they are due. No more than two students may present in any assignment, and only one presentation per student per term.

Your final letter grade depends on the following grading scale.

≥93% A 90-92.9% A-87-89.9% B+ 83-86.9% B 80-82.9% B-77-79.9% C+ 73-76.9% C 70-72.9% C-67-69.9% D+ 60-66.9% D < 60% F

Promoting Diversity, Inclusion, and Wellness within the Classroom

Land Acknowledgment. Emory University acknowledges the Muscogee (Creek) people who lived, worked, produced knowledge on, and nurtured the land where Emory's Oxford and Atlanta campuses are now located.

Respect for Diversity. It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength and benefit. It is my intent to present materials and activities that are respectful of diversity: gender, sexuality, disability, age, socioeconomic status, ethnicity, race, religion, and culture. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally or for other students or student groups. In addition, if any of our class meetings conflict with your religious events, please let me know so that I can make arrangements for you.

Gender Inclusive Language. This course affirms people of all gender expressions and gender identities. If you go by a name different from what is on the class roster, please let me know. Using correct gender pronouns is important to me, so I encourage you to share your pronouns with me and correct me if I make a mistake. If you have any questions or concerns, please do not he sitate to contact me.

Polices Designed to Ensure Fairness

Honor Code. You are expected to adhere to the provisions of the Honor Code of Emory College. Suspected cases of academic misconduct will be handled according to the Honor Code, which can be found at Emory College Honor Code.

As a reminder of the commitment to academic integrity that everyone in the Emory University community has made, each student will sign the following Honor Pledge on examinations and major academic assessments:

I pledge to abide by the Emory Honor Code in all academic work and avoid any action that would provide an unfair advantage.

Academic Misconduct. Academic misconduct is a violation of the Honor Code and is generally defined as any action or inaction that is offensive to the integrity and honesty of the members of the academic community. In addition to the violations enumerated in this article, instructors at Emory University have reasonable discretion to establish specific standards and policies as related to their courses and assignments. Such additional standards and policies should be clearly articulated in the syllabus, in the assignment, or otherwise conveyed as an expectation by the instructor. It is the responsibility of each student to understand the policies established in the Honor Code, syllabi, and assignments, and act accordingly.

Academic misconduct includes, but is not limited to, the following actions: cheating, plagiarizing, lying and dishonesty, violating community standards, violating standard in the honor code process. For detailed descriptions, please see: Emory College Honor Code

Extraordinary circumstances. Timely submission of assignments is an important part of professionalism. As such, I generally expect you to submit each assignment by the due date. I understand, though, that extenuating circumstances may sometimes prevent you from doing so. If you need to submit an assignment late due to an "extraordinary circumstance," please let me know as soon as possible via email. Extraordinary circumstances are (usually unexpected) that interfere with your ability to complete a timely submission of an exam or a timely submission of an assignment. Such circumstances may include illness, accident, approval through disability services, disruptions due to official school obligations (such as for athletics), religious holidays, or other circumstances beyond your control. Generally, extraordinary circumstances do not include voluntary social activities, voluntary recreational activities, or the need to study for exams or complete assignments in your other classes. When evaluating whether your circumstances are extraordinary, I consider the amount of advanced notice given to me. Also, depending on the nature of the circumstances and the particular deadline, I may require additional details or supporting material.

To obtain an extension or an excused absence based on extraordinary circumstances, please send me an email as soon as you are aware of the need for an extension or excused absence. The message should explain the extraordinary circumstances that prevent you from completing the exam or assignment by the deadline. I will reply to the message confirming whether an extension is granted or the absence is excused. Depending on the circumstances, additional evidence may be required. If you have not received a reply from me confirming the extension within 24 hours (e.g., because I may have missed your message or an error may have disrupted the electronic message), please follow up with me ASAP about the status of your request. If you fail to communicate with me, unexcused late or incomplete assignments will result in reduced points for that assignment.

Grade Dispute. Please turn in a written petition and if it involves a specific assignment, a copy of the assignment. Any request for a re-grade will result in a re-grade of the entire assignment.

Accommodations for those with a Disability. If you have a documented disability for which accommodations may be required in this class, please contact the Department of Accessibility Services (https://accessibility.emory.edu/) as soon as possible to discuss your needs and register for accommodations with the University. If you have already arranged accommodations, please be sure to request your accommodations through the Accommodate portal and discuss them with me during my office hours within the first two weeks of class.

To ensure fairness and consistency, it is required that I receive verification from the Department of Accessibility before providing accommodations. The department will work with students and faculty to arrange proctored exams for students whose accommodations include double time for

exams and/or assistive technology. Students with approved accommodations of time-and-a-half should talk with me as soon as possible to schedule proctored examinations or to arrange other accommodations.

Discrimination, Harassment and Sexual Misconduct (Title IX). Emory University is committed to providing all students with a safe learning environment free of all forms of discrimination, sexual harassment, and sexual violence.

Should you need support, Emory has dedicated staff trained to assist you in navigating campus resources, accessing health and counseling services, providing academic and housing accommodations, helping with legal protective orders, and filing a formal complaint with the University or with law enforcement. Please see Emory's Equity and Compliance page for more information about reporting options and resources: https://equityandcompliance.emory.edu/

Well-being. Many students face personal and environmental challenges that can interfere with their academic success and overall wellbeing. If you are struggling with this class, please visit me during office hours or contact me via email at jillian.grennan@emory.edu. If you are feeling overwhelmed and think you might benefit from additional support, please know that there are people who care and offices to support you at Emory. These services — including confidential resources — are provided by staff who are respectful of students' diverse backgrounds. For an extensive list of well-being resources on campus, please go to: http://campuslife.emory.edu/support/index.html.

And keep in mind that Emory offers free, 24/7 emotional, mental health, and medical support resources via TimelyCare: https://timelycare.com/emory

Course Schedule

As noted above, the reading list associated with specific lectures is available on Canvas. Below you will find an outline of the specific topics covered in the course. Dates highlighted in red are when exams will be held.

Fall Term

Date	Class #	Торіс	Assignment Due
8/29/2024	1	Intro	
9/3/2024	2	Business Law	
9/5/2024	3	Business Ethics	
9/10/2024	4	Three Core Properties of All Securities: Risk,	
		Return, Price and Where Sustainability Fits In	
9/12/2024	5	Active vs. Passive strategies, IPS Overview	
9/17/2024	6	PRESENTATION	Review Existing Sustainability ETF
9/19/2024	7	Corporations and Corporate Governance	
9/24/2024	8	Shareholder Action and Stewardship	Engine No. 1
9/26/2024	9	Climate Disclosure Frameworks	
10/1/2024	10	Tools for Monitoring ESG	
10/3/2024	11	PRESENTATION	Propose Your Own Shareholder Action
10/8/2024	12	Alternative Investment Mandates: Impact,	
		Place-Based, etc.	
10/10/2024	13	Alternative Ownership Structures	DBL Partners
10/15/2024		FALL BREA	K
10/17/2024	14	Climate and Biodiversity Risk	
10/22/2024	15	Valuing Corporations	Just Climate
10/24/2024	16	Valuing Fixed Income	
10/29/2024	17	ESG Bonds	
10/31/2024	18	Carbon Markets, Net Zero Pledges, and	
		Regenerative Finance	
11/5/2024	19	Labor Laws and Collective Action	
11/7/2024		PRESENTATION	Review Existing Social Justice Fund
11/12/2024		The Importance of Corporate Culture	
11/14/2024		Techniques for Interviewing Companies	
11/19/2024	23	Culture-Leadership-Strategy Alignment	
11/21/2024	24	PRESENTATION	Sector Risk-Opportunity Profile
11/26/2024	25	ONE-ON-ONES	Please schedule meeting with me
11/28/2024	THANKSGIVING		
12/3/2024	26	PRESENTATION	Final Pitch
12/5/2024		PRESENTATION	Final Pitch
12/10/2024	28	PRESENTATION AND WRAP-UP	Final Pitch