**PPOL 6100M- Special Topics in Public Policy: Green and Sustainable Finance**  
(Spring 2024)

Tuesdays, 06/02/2024-07/05/2024  
1:30-4:20pm, Room 2463, Academic Building

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Teaching Associate:  
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**Course description:**  
The impact of climate change on humanity and ecosystems is broader and more severe than anticipated. Urgent and systemic transitions are required to ensure a future with net zero emissions and climate resilience, aiming to limit global warming to 1.5 °C. However, achieving climate goals faces significant challenges, one of most important being the investment gap. First, existing funding flows fall far below the required scale for the future. Second, the growth momentum of the private sector remains insufficient. Third, limitations in fund allocation result in inadequate support for the most vulnerable sectors, industries and groups of population, with over 90% of funds directed toward climate mitigation and less than 10% toward adaptation. In short, accelerating climate action is only feasible with a several-fold increase in financing.

The first part of this course introduces students to the foundations of green and sustainable finance, such as its definition, markets and instruments. The second part of this course follows the first half of CFA Institute’s Certificate in ESG Investing curriculum to make sure that the students are equipped with the most up to date information on green and sustainable finance. At the end of the semester, students should have a strong background to be able to study for the certification, which will give them a cutting edge when applying for jobs related to ESG and sustainability.

**Course objective:**  
The course is designed to give students a thorough overview of green and sustainable finance. Students should have learned the following outcomes by the end of the course:

i. Why green finance is crucial for sustainable development and climate action  
ii. What constitutes green and sustainable finance and what are common sustainable and green finance instruments and products  
iii. Why firms adopt green strategies  
iv. How climate risks affect the financial system  
v. How climate risk is measured and managed, covering both physical and transition risks  
vi. How to measure the ESG activities of corporations
vii. How asset managers may incorporate ESG into their investment decisions and monitoring activities

Assessment

The assessment of student performance in the course will be based on class participation, four individual assignments (case analyses), and a group project. The following weights will be used to determine course grades:

- **Class participation (15%):** Students will be graded on their attendance (5% of the grade) and in-class and after-class participation (both quality and quantity of comments matter!) There is a variety of ways by which students can participate, such as contributing to in-class case discussion, leaving comments on discussion forums on Canvas, and coming to office hours!
- **Four case analyses (40%):** Students will be asked to write four case analyses, each worth 10% of final grade, based on cases discussed in class.
- **Group Project (45%):** Students will be working on a group project (up to four people in each group) about developing Hong Kong into a green finance center. Each group may choose from a list of potential project topics, including but not limited to identifying the policy gaps and institutional barriers preventing Hong Kong from becoming a green finance leader despite its status as a global finance center, analyzing the strengths, weaknesses, opportunities and threats for Hong Kong’s development of a global green finance center in comparison to global leading green finance centers, and assessing Hong Kong’s role as a green finance center in supporting the green development in the Greater Bay Area. 10% of the grade will be based on a project proposal explaining 1) the research question and its significance, 2) a brief literature review, and 3) the research plan and methodology; 20% based on final presentations; and 15% determined by the quality of a research poster that present their findings.

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<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Due Date</th>
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<tr>
<td>Case Analysis (4)</td>
<td>40% (4 x10%)</td>
<td>3 March, 17 March, 21 April and 12 May</td>
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<tr>
<td>Final group project</td>
<td>45% (10% for project proposal, 20% for presentation + 15% for poster)</td>
<td>31 March (proposal), 7 May (presentation) and 19 May (poster)</td>
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<tr>
<td>Class Participation</td>
<td>15% (5% for attendance, 10% for in-class and after-class participation)</td>
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**GRADING:**

For each assignment, we will provide the outline and general marking rubrics. But for all assignments, it will be helpful to keep Bloom’s Taxonomy in mind.
In general, the different levels relate to grades as follows (but keep in mind, different assignments may have particular requirements that need to be met which may change this a bit):

- **Create**: 100%
- **Evaluate**: 90%
- **Analyze**: 80%
- **Apply**: 70%
- **Understand**: 60%
- **Remember**: <60%

**ACADEMIC INTEGRITY CODE**

All work must be entirely your own. Please cite the relevant work whenever you borrow ideas from others, using the proper reference format (e.g., APA, MLA). Examples of violations of the academic integrity code include but are not limited to: failure to use quotation marks when quoting, failure to give full credit when paraphrasing, use of others’ ideas or work products, submission of work prepared through impermissible collaboration, and submission of work prepared by you for another class. (Your work in this class may be related to your work in another class, but the work you submit for this class should not duplicate that submitted for another class. If you anticipate an exception, please do not hesitate to ask.) Violation of the Academic Integrity Code may result in failure in the course, as well as more serious academic sanctions. For details about the academic integrity code, please refer to [https://acadreg.ust.hk/generalreg.html](https://acadreg.ust.hk/generalreg.html).

Please check for plagiarism before you turn in each homework, for example using the anti-plagiarism software Turnitin available on Canvas. **A rule of thumb is that the similarity score should not exceed 15% excluding references.**

**LATE HOMEWORK POLICY**

The only legitimate justification for late homework submission is sick leave or family emergency. For sick leave, you need to present proof of sickness such as a “certificate of
sickness” which is obtainable from the doctor. In any other case, extensions on homework due dates are granted only on a case by case basis, and you will need to request extensions from the instructor at least five days before the due dates. For instance, if you have several assignments due at the same time, you may request an extension, which may or may not be granted.

The “hard deadline” for each assignment is 2 days past the original due date. Late submissions are penalized if extensions are not granted beforehand: your grade will be reduced by 30% if the homework is one day overdue, and by 50% if two days overdue. Any submissions are not accepted beyond the hard deadline.

POLICY ON GENERATIVE ARTIFICIAL INTELLIGENCE IN ASSIGNMENTS

Given the evolving landscape of GenAI tools, HKUST allows faculty members the flexibility to set their own course-level policies. In this course, we have adopted the policy of “Restricting all use of generative AI for assessment.” This means that the use of generative-AI in any academic work, including but not limited to essays, presentations, and reports, is strictly prohibited. We appreciate your understanding and cooperation in upholding the values of academic honesty and originality. Should we find any student has used generative-AI in work submitted for assessment for this course, we will treat such cases as plagiarism (as it is not work done by the student himself/herself). This will apply during the semester that the course is offered and up to one year thereafter.

TOPICS AND READING ASSIGNMENTS

Note: All course readings can be accessed through Canvas. Most cases can be downloaded from Harvard Business School Publishing using the given links in a separate document entitled “List of cases for 6100M.” We kindly ask each student to download the case ONCE because we have only purchased 50 copies of each case. Readings marked with * at the beginning and the case materials are the high-priority ones. Others are optional. This list is preliminary and subject to adjustment. Policy is constantly evolving – so we will adjust accordingly. Up to date reading lists, assignments, and announcements will all be posted on Canvas.

PART I. SUSTAINABILITY, CLIMATE CHANGE AND FINANCE (7 weeks)

Week 1 (6 Feb) Introduction to Green and Sustainable Finance: Climate Change, Net Zero, and Finance

Readings:


2. IPCC (2018). Summary for Policymakers. In: Global Warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and


**Week 2 (20 Feb) Foundations of Green Finance: Markets and Instruments**

**Readings:**


**Case 1: Climate Risk and Banking: Citi’s Net-Zero Future (case analysis 1)**

Come to class prepared to discuss the following questions:

- Why has Citi decided to issue/underwrite $1 trillion in sustainable finance by 2030?
- Understanding different debt instruments:
  1. What are green bonds? What are their benefits and risks? Why should a company issue them?
  2. What are social bonds? What are their benefits and risks?
  3. What are sustainability-linked bonds? Are they better than green bonds?
- Why did Citi/Fraser decide to announce a net-zero target by 2050? Do you agree? Why or why not? Do you think everyone in the bank would be excited with the announcement?

**Week 3 (27 Feb) Sustainability and the UN Sustainable Development Goals (SDGs)**

**Readings:**


Case Analysis No.1 is due 3 March.

Week 4 (5 Mar) Green Business Strategy

Readings:


Case 2: SimplyGood: From a mission to rescue waste to a passion for reducing single-use plastics (Case Analysis No. 2)

Come to class prepared to discuss the following questions:
- How does SimplyGood apply the Triple bottom line? Explain using examples from the case to support your answers.
- Evaluate the extent to which SimplyGood aligns with the UN SDGs.
- What are some common challenges faced by social enterprises like SimplyGood?
- What are the motivating factors/drivers of social entrepreneurs? Perform a self-assessment to ascertain whether you have these motivating factors or drivers. Based on the available evidence, evaluate whether Jeremey from SimplyGood demonstrated these motivating factors/drivers.

Week 5 (12 March) Climate Change Risk (I)

Readings:


Case Analysis No.2 is due 17 March.
Week 6 (19 Mar) Climate Change Risk (II)

Reading:


Case 3: Royal Dutch Shell and Beyond: Strategizing the Future of ESG Compliance

Come to class prepared to discuss the following questions:
- The Shell Case in Legal Memo (1): What was the issue? What were the key findings of the court? What actions undertaken by Shell had either increased or mitigated its risk exposure? What lessons will AZE take from this case, and how might these lessons drive specific strategic discussions at AZE?
- Shareholder activism cases in Legal Memos (2) and (3) involving Chevron, Exxon, and against Shell: In each of these cases, what did the shareholders demand? How did the company respond in each case? What was the outcome? What lessons can AZE draw from these cases?
- What action needs to be taken at AZE?

Week 7 (26 March) Climate Risk Measurement and Management

Reading:


Mid-term break

Final project proposal is due 31 March.

PART II. FOUNDATIONS OF ESG INVESTING (4 weeks)

Week 8 (9 April) ESG Investing: Method and Applications

Readings:


Case 4: Impaakt: Harnessing Collective Intelligence to Improve ESG Ratings (Case analysis No.3)

Come to class prepared to discuss the following questions:
- How relevant, consistent and valid are current ESG practices and benchmarking? Are these ESG-related measurements statistically relevant and do they deliver the investment performance expected by financial professionals?
- Has Impaakt found a valid model to answer those issues related to ESG’s relevance?
- How can collective intelligence provide accurate and valid Impact Notes?

Week 9 (16 April) ESG Investing: Environmental Factors

Readings:

Case 5: SOGO Department Store, Hong Kong: Integrating Environmental Sustainability into a Retail Store's Operations

Complementary case readings:

Come to class prepared to discuss the following questions:
- What role did HKEX play at the beginning of SOGO’s ESG journey?
- What are the strengths and weaknesses of Lifestyle International’s ESG report as found in their 2017 Annual Report?
- Who are Lifestyle International’s primary stakeholders? Which stakeholder has the company engaged with to date? What have been the results of this engagement?
- What are some of the factors that determine to what extent a retailer can impose sustainability standards on a brand name vendor?
- What influence do consumers have on sustainability standards in the retail sector?
Case Analysis No.3 is due 21 April.

Week 10 (23 April) ESG Investing: Social Factors

Readings:


Case 6: ESG at WeChat Pay to Support SMEs (Case analysis No.4)

Come to class prepared to discuss the following questions:

- Why does WeChat care about ESG criteria?
- How important are SMEs to WeChat? Why does addressing SME needs help WeChat fulfill its ESG missions?
- What are the pain points of SMEs that WeChat Pay should help to address? How may WeChat persuade SMEs into using its services? What are some possible IT solutions to meet the challenges of SMEs?
- How can these ESG efforts be sustainable and not just greenwashing?

Week 11 (30 April) ESG Investing: Governance Factors

Readings:


Case 7: Asian Paints Limited: Corporate Governance Blues

Complementary case readings:


Come to class prepared to discuss the following questions:

- What issue do APL’s independent directors face in the case? Why is a response necessary?
- Given the context of India, why are related-party transaction (RPTs) a corporate governance issue?
• What options should APL’s independent directors consider? How should they evaluate the options?
• What should APL’s independent directors do to address InGovern’s charges?

**Week 12 (7 May) Final group project presentations and course summary**

*Presentation slides are due 7 May.*

*Case Analysis No.4 is due 12 May.*

*Final project poster is due 19 May.*