Energy Economics and Global Implications Course  
ECON6101B

1. GENERAL INFORMATION

Course Code: ECON6101B  
Course Title: Energy Economics and Global Implications Course  
Instructor: Andrew Macintosh  
Email: amacintosh@ust.hk  
Section: L1  
Weekdays: Saturdays  
Dates: 14 April 2018 to 2 June 2018: 14, 21, 28 April; 5, 12, 19, 26 May; 2 June.  
Time: 0900-1230  
Venue: LSK 1010, Clearwater Bay.  
Course Credit: 2-credit  
Course Grading: Letter Grade  
Course Pre-requisite: None.

2. COURSE OVERVIEW

Energy Economics & Global Implications is a macro overview course is designed to help students and future managers understand the role of energy in global economy. This course will also help managers understand the interconnections with other industries and geopolitics. Students will learn techniques and strategies that managers use to mitigate risk and capitalize on opportunities.

3. COURSE OBJECTIVES / LEARNING OUTCOMES

To successfully complete the course students will be expected to demonstrate mastery of the following learning objectives:

- Identify the macro supply and demand factors for different energy sources and the impact of global markets;
- Understand the various energy sources, and their applications in society;
- Identify the components of the energy value chain and interpret the factors that affect the chain;
- Understand energy markets, the players, and the forces that drive those markets;
- Understand energy markets and valuation techniques;
- Evaluate the role that alternative energy sources can play and the economics of their application; and
- Understand the linkages the energy industry has with other industries globally.

4. COURSE OUTLINE

Week 1. An Introduction to Energy and the Macroeconomic landscape
Week 2. Oil, Electricity and Coal
    a. Forms and grade, and sources
    b. Refining and processing
c. Distribution, uses and applications  
d. Economics and valuation  

Week 3. Alternates and Nuclear  
a. Wind, solar, wave  
b. Biofuels  
c. Nuclear  
d. Economics and valuation of alternates  

Week 4. Energy Markets and M&A  
a. Energy markets: spot and futures  
b. M&A pricing, trends and valuation drivers  

Week 5. History and Geopolitical Influences  
a. A brief history of energy markets and energy economics  
b. Geopolitical risks and pricing  

Week 6. Future Trends  
a. Peak Oil  
b. The inevitability of a nuclear future  
c. The military and energy  

Week 7. Linkage to Other Industries + Review  
a. Plastics  
b. Automobiles  
c. Review  

Week 8. Final Exam  

Note: The instructor reserves the right to rearrange, or change the order, or compress/expand the topics; the objective will always remain delivery of the learning objectives.

5. GRADING / ASSESSMENT  

This course will be graded:  
- 50% Final Exam, made up of 25% multiple-choice and 25% written exam.  
- 30% Short assignment.  
- 10% Attendance.  
- 10% Class participation.  

Final Exam  
The Final Exam will be a 2-hour, in-class, open book examination. It will consist of 25-multiple choice questions and 4 written-response questions, and be a mix of short and long-form answer. The Final Exam will be a test of your ability to synthesise and apply what you’ve learned to real world geo-political and management challenges.

Short Assignment  
The assignment will be handed out in Week 2, and is due Week 7. The assignment task is to examine an energy source’s suitability for Hong Kong, assessing political, economic and environmental pros and cons. Max 2-3 slides/pages.

Attendance  
Attendance is mandatory for all classes, and the MBA attendance policy will be followed.
Students are required to seek approval from the course instructor (and copy MBA Office) prior to his/her absence with solid justification. Copy MBA office email at mbaft@ust.hk (Full-time Program) or mbap@ust.hk (MBA for Professionals Program).

Class participation

Students can demonstrate participation in class by asking insightful questions. Students can also pass their hand-written questions to the instructor before, during, or after class.

Grading

A grade of A, B, C or F will be awarded for excellent, good, average or failing performance, respectively.

6. COURSE MATERIALS

Required Reading

Lecture notes: The lecture notes are self-sufficient for the course. They will be posted two weeks before the first class. You are encouraged to read the notes before class. You will be provided with a printed set of notes on the first day of class.

There is no text book for this course.

Optional Reading

A compendium a 20-30 recent articles (the Book of Readings or BoR) will be made available a month prior to class. There will also be a list published of additional books for those interested in a deeper dive into any topic.

7. YOUR INSTRUCTOR

Andrew Macintosh

Andrew is Managing Partner (Asia) of Entoro Capital, an SEC-licensed boutique oil & gas investment bank based in Houston, and a member of the Association of International Petroleum Negotiators. Andrew is also non-executive Chairman of Acorus Investment management, a China-Africa private equity fund. Prior, Andrew was CEO (HK), and a director and chair of the investment committee of a Chinese energy and commodities private equity group with US$500 million under management.

Previously, Andrew was the General Manager of Banking for National Australia Bank in Hong Kong, where he oversaw the private banking, commercial banking, and retail banking businesses. Prior to this, Andrew worked for Westpac, JP Morgan and investment bank Jardine Fleming.

In 2015, Andrew founded not-for-profit Community Education Abroad (CEDA), which brings high school children from all over the world to teach primary school in Cambodia, as part of their Community Action Service (CAS) requirements.

Andrew holds an MBA from The University of Sydney. He has made over 25 appearances in the media including the South China Morning Post and the Australian Financial Review. Since 2010, Andrew has served as adjunct faculty at Macquarie University’s Graduate School of Management and guest lectures at the University of Hong Kong’s Faculty of Business and Economics. Andrew is also a current or former board member of several private investment companies. Andrew also
serves on several not-for-profit boards including the Australian Chamber of Commerce in HK (as chairman) and two school boards in Asia.

Contacting the instructor
Address academic or learning matters to the instructor via email: amacintosh@ust.hk
Do NOT contact the instructor on social media until final grades have been issued.

Logistics
Contact the MBA office or assistance with logistics (locations, grades, updates, appeals).

8. OTHER INFORMATION

Student Feedback
Student Feedback Questionnaires (SFQ) Survey needs to be completed before the last class (Week 8) by one of the following methods:
- Canvas website (https://canvas.ust.hk)
- SFQ Mobile website (http://sfq.ust.hk/mobile/)
- HKUST iLearn app at smartphones / tablets

In class policies
Students must display their name cards during each class; if I don't know who you are, I can't credit you with class participation.
Devices are permitted in class, but must be switched to silent. Persistant device noise will result in a deduction of attendance and/or participation points.
Class will start 5-minutes after the appointed time: this allows a few minutes grace for those running late; while respecting the time of those on time.
Any kind of video or audio recording is strictly prohibited and will result in a failing grade.

Exam Policies
During exams, devices must be off your desk and put away. A calculator is not required for the exam.
You may not copy or remove the test booklet, or any working papers from the exam room.

Referencing
Use the APA style in this class. See http://libguides.ust.hk/basic-citation/good-referencing-tutorial.

University Policies
University policies relating to cheating, plagiarism, code of conduct, and appeals, will be enforced; familiarise yourself with these policies before Week 1. See the HKUST Academic Integrity and Honor Code at: http://tpghandbook.ust.hk/student-conduct-and-academic-integrity.