

**University of Georgia
INTL 8279**

Energy Security and Policy

Time: Tuesday, 12:20 PM – 3:20 PM

Place: Candler Hall, Room 117

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Office Hours:

Tuesday and Thursday, 11:00 AM – 12:00 PM or by appointment
Driftmier Engineering Center Room 605 (2nd Floor)

COURSE DESCRIPTION

This course is a comprehensive study of the implications of energy resources on national and global security, political and economic stability, and global geopolitics. A particular emphasis will be the power generation sector and nuclear energy in the power sector. This course will extend the scope of energy beyond that of an economic commodity and explore the implications of energy as a tool for geopolitical leverage. There will be an emphasis on various data resources and compiling those data to inform weekly submissions, a midterm deliverable and a final deliverable.

The final deliverable for this course will be a report on the disposition of U.S. energy. The report will be data-supported and developed as if it were being presented in a briefing to the U.S. Department of Energy. The report will be comprised of the written report itself, an executive summary and a PowerPoint presentation all of which will be presented during the final exam period, which is scheduled for Tuesday, May 7, 12:00 PM – 3:00 PM. This should be approached as a semester-long research project that will culminate in a well-informed energy report to be defended at the end of the semester. As such, all assignments should be contextualized within this final deliverable.

REQUIRED TEXT

Yergin, Daniel. *The Quest: Energy, Security and the Remaking of the Modern World*, The Penguin Press, New York, 2011.

SUPPLEMENTAL RESOURCES

Additional readings and data resources will be assigned throughout the semester, along with occasional interviews, videos and podcasts. A comprehensive list of resources will be provided in the first week providing links to current and contemporary treatments of energy and energy security issues.

IMPORTANT DATES

January 9-15	Drop/Add for undergraduate-level courses
January 21	Holiday (M.L.K Day)
March 1	Midpoint of Semester
March 8	Last Day of Classes Prior to Spring Break
March 11-15	Spring Break
March 18	Classes Resume
March 21	Withdrawal Deadline
April 30	Last Day of Classes
May 1	Reading Day
May 2-8	Final Exams
May 13	Grades Due

Grading

Course Requirements and Grading Components

Weekly Submissions and Participation	35%	Weekly
Group Presentation and Executive Summary	30%	March 5
Final Group Presentation and Report	35%	May 7

Weekly Submissions and Class Participation (35%)

Students must email weekly submissions by 12:00 on the Monday prior to class. The submission should be no more than 2 pages and must briefly identify and discuss key elements of the weekly reading assignment such as the primary actors, their objectives, resources, strategies, policies, outcomes, etc. Each submission should summarize and put forth broader "lessons learned" that were gleaned from the readings. Reading assignments are listed on the syllabus the day they will be discussed in class. Each student is expected to complete the required readings and be prepared to participate actively in discussions.

Group Presentations and Executive (30%)

There will be midterm group presentations. Each presentation must be accompanied by a PowerPoint and an executive summary, which is limited to 4 pages, and due by email 12:00 on the Monday prior to class. The planned date for midterm group presentations is **Tuesday, March 5**.

Final Presentations and Reports (35%)

The final presentation and reports will address the following question: *What role will energy statecraft play in the twenty-first century?* The memo should conclude with a list of policy principles that were derived from week 1 – 13 lectures and readings. The final presentation is **due Tuesday, May 7 from 1200 PM-3:00 PM in Candler Hall, Room 117**. The final report is limited to 8 pages and is **due by email Monday, May 4, 5:00 PM**. In addition to the 8 page limit, the report may include an appendix with reference figures and tables to supplement the report. The intent is to allow the 8 pages to be

COURSE OUTLAY

This course will be instructor-guided and student-driven, therefore it is imperative for each student to be thoroughly prepared for each class by way of having completed the readings and having submitted the weekly brief with critical questions and observations.

Each class session will be constituted by a roundtable discussion of critical observations and questions developed by students in that week's reading and brief. This may be accompanied by a lecture/presentation given by the instructor.

Week 1 January 15

Course Overview

Reading Assignment #1: The Quest, Part One—Chapters 1-5 (The New World of Oil)

Week 2 January 22

Discuss Reading Assignment #1

Reading Assignment #2: The Quest, Part One—Chapters 6-10 (The New World of Oil)

Week 3 January 29

Discuss Reading Assignment #2

Reading Assignment #3: The Quest, Part Two—Chapters 11-16 (Securing the Supply)

Week 4 February 5

ORNL

Week 5 February 12

Discuss Reading Assignment #3

Reading Assignment #4: The Quest, Part Three—Chapters 17-20 (The Electric Age)

Week 6 February 19

Discuss Reading Assignment #4

Reading Assignment #5: The Quest, Part Four—Chapters 21-26 (Climate and Carbon)

Week 7 February 26

Discuss Reading Assignment #5

Reading Assignment #6: The Quest, Part Five—Chapters 27-32 (New Energies)

Week 8 March 5

Midterm Group Presentations

March 11-15 [Spring Break]

Week 9 March 19

Discuss Reading Assignment #6

Presentation and Class Discussion: Basics of Atomic Energy

Reading Assignment #7 (TBD): Nuclear Power Generation

Nuclear Information and Data Links:

<https://www.iaea.org/>

<https://pris.iaea.org/pris/>

<http://www.world-nuclear.org/>

<http://www.world-nuclear.org/information-library.aspx>

Week 10 March 26

Presentation and Class Discussion: Nuclear Power Generation

Reading Assignment #8 (TBD): The Nuclear Fuel Cycle

Week 11 April 2

Presentation and Class Discussion: The Nuclear Fuel Cycle

Reading Assignment #9 (TBD): Advanced Reactors

Week 12 April 9

Presentation and Class Discussion: Advanced Reactors

Reading Assignment #10 (TBD): U.S. Nuclear Power and National Security

Week 13 April 16

Class Discussion

Reading Assignment #11 (TBD): U.S. Nuclear Power and National Security

Week 14 April 23

Class Discussion

Reading Assignment #12 (TBD): U.S. Nuclear Power and National Security

Week 15 April 30

Class Discussion

Reading Assignment #13 (TBD): U.S. Nuclear Power and National Security