

ESPM 3607: Syllabus and Schedule

Room	335 Borlaug Hall
Schedule	Mondays and Wednesdays 10:40–11:55 a.m.
Instructors	Dr. Jason Hill, Associate Professor Department of Bioproducts and Biosystems Engineering Dr. Liaila Tajibaeva, Research Associate Department of Applied Economics
Contact	Send all emails to <espm3607@umn.edu>.
Description	This course examines global trends in population and economic growth, and the production and consumption of energy, food, biomass, water, land, and minerals. Topics covered include the use of natural resources as raw materials for industrial and economic development, and the impact of their use on the environment. Methods for quantifying the impact of human activities on their environment are described along with mechanisms for balancing human consumption and environmental concerns. The goal of this course is to provide students with a framework to think critically about complex environmental problems and sustainable solutions in a diverse global economy.
Theme	This course satisfies the University's Global Perspectives liberal education theme.
Materials	All lectures, readings, and assignments are posted on the course's Moodle site with the exception of the book, which is listed below.
Book	Zakaria (2011) <i>The Post-American World: Release 2.0</i>
Readings	Readings scheduled for discussion must be completed before class and be brought to class, either on paper or electronically.
Expectation	University of Minnesota policy states that students should expect to spend 45 hours on course work per credit hour to receive an average grade. To receive a C in this 3-credit course, you should therefore expect to spend about 135 hours this semester participating in class, reading papers and the book, and studying for quizzes and tests. Over the 15 weeks of the semester, this averages to about 9 hours per week, of which 2.5 are in class and 6.5 are outside of class. Work in the A or B range may require considerably more.
Policies	You must follow the University of Minnesota Student Conduct Code at all times. You must be respectful of your peers and instructors, and be familiar with and follow University of Minnesota policies on classroom conduct, academic misconduct, disability accommodations, sexual harassment, and discrimination.

ESPM 3607: Syllabus and Schedule

Attendance Attendance is required. Unexcused absence or tardiness will result in a lower course grade.

Grading Quizzes and tests may be taken late only under extraordinary circumstances or with official University justification, and only if arrangements are made in advance. All regrade requests must be submitted in writing. Minimum grade cutoffs are 93.3% (A), 90.0% (A-), 86.6% (B+), etc. Final course grades may be curved upward.

<i>Assignment</i>	<i>%</i>
Quizzes (Best 20 of 22 @ 2% each)	40
Midterm Exam	25
Final Exam	25
Participation	10

Schedule

<i>Week</i>	<i>Date</i>	<i>Topic</i>	<i>Week</i>	<i>Date</i>	<i>Topic</i>
1	W 1 / 20	Introduction	10	M 3 / 21	History
				W 3 / 23	History
2	M 1 / 25	Population	11	M 3 / 28	Impact
	W 1 / 27	Economics		W 3 / 30	Climate Change
3	M 2 / 1	Globalization	12	M 4 / 4	Waste
	W 2 / 3	Energy		W 4 / 6	Industrial Ecology
4	M 2 / 8	Energy	13	M 4 / 11	Sustainability
	W 2 / 10	Minerals		W 4 / 13	Assessment
5	M 2 / 15	Minerals	14	M 4 / 18	Efficiency
	W 2 / 17	Nitrogen and Phosphorus		W 4 / 20	Alternatives
6	M 2 / 22	Land	15	M 4 / 25	Renewables
	W 2 / 24	Food		W 4 / 27	Renewables
7	M 2 / 29	Biomass	16	M 5 / 2	Future
	W 3 / 2	Water		W 5 / 4	Review
8	M 3 / 7	Review	17	Sa 5 / 14	Final Exam
	W 3 / 9	Midterm Exam			(8:00 a.m.–10:00 a.m.)
9	M 3 / 14	Spring Break			
	W 3 / 16	Spring Break			