



# Tentative Course Schedule

*Students should note that topics may span more than one lecture period*

Week/Lecture #	LECTURE TOPICS	
1.	<b>An overview of the course, expectations, and objectives.</b> <b>Understanding Pollution</b> Humans are massively changing the Earth Why does pollution happen? Global pollution and global environmental health Root causes Our actions have consequences	..... Jan.11 <sup>th</sup>
2.	<b>Air Pollution (Part I)</b> Criteria air pollutants Air Quality Management System Hazardous air pollutants Video: TBA	.....Jan. 18 <sup>th</sup>
3.	<b>Air Pollution (Part II)</b> Pollution from space Air pollution in less-developed countries	. 25 <sup>th</sup>
4.	<b>Global Climate Change (Part I)</b> A warming Earth Significant Elements of Our Changing Climate Greenhouse gases and their sources	.....Feb. 1 <sup>st</sup>
5.	<b>Global Climate Change (Part II)</b> Assessing global climate change	.....Feb.8 <sup>th</sup>

**8. MIDTERM (in class, in-person): Lectures 2-6 .....Mar. 7th**

**9. Water and Wastewater Treatment .....I.....Mar. 14<sup>th</sup>**

- Drinking water standards
- Drinking Water Treatment Process
- Reducing Point and Non-Point Sources (Treating Wastewater)

**10. Solid and Hazardous Waste (Part I).. .....Mar. 21<sup>st</sup>**

Waste is a sign of inefficiency

Waste Management Hierarchy

Video: [How San Francisco Is Becoming a Zero Waste City](#)

QUIZ #2 (on-line): Lectures 7 and 9

**11. Solid and Hazardous Waste (Part II) .....Mar. 28<sup>th</sup>**

- The Fate of Disposed Municipal Solid Waste
- Managing Hazardous Waste

**12. Energy and Mining**

The lecture material will be presented in-person, Thursday at 5pm in Room AA 112.

### ***QUIZZES***

There are no tutorials in this course. Teaching Assistants will hold discussion board and office hours to help with the quizzes. Students are encouraged to actively consult with the TA regarding any problems or questions about the preparation of the quizzes. Each TA is responsible for only one quiz, so please consult only with TA who is responsible for the given quiz. You will have 2 on-line quizzes during the term, each quiz is worth 10% of the final grade. Each quiz is scheduled at the specific day (see lecture schedule or see below) and they will **always start at 5 pm on Quercus**. After a quiz is completed and 15 minutes break, I will continue with the lecture material (AA 112 around 6 pm). **If you have a conflict with the quiz at 5 pm, please note that this will not be accepted as a valid reason for accommodation.**

#### **Format of the quizzes is:**

Multiple Choice questions, True/False questions, Matching questions, Fill in the blanks, Multiple dropdowns. **The quizzes will content 20 questions for 30 minutes, one question per page and you can't move backwards and review the questions.** The textbook is not mandatory, but since most of the lectures follow the textbook, I recommend that you read the textbook for quizzes or exam preparation. Some questions for quizzes and final exam will come from posted videos.



## ***RECOMMENDED TECHNOLOGY REQUIREMENTS***

Quercus is optimized for Google chrome or Mozilla Firefox. The system does not support the

Note: **Check Quercus regularly.** All announcements, lecture notes, and midterm marks and other information will be posted on Quercus.

**Other useful books for this course:**

- Understanding Global Warming Dire Predictions Mann, E.M. & L.R. Kump (2008), Pearson Education Canada
- Environmental degradation and the tyranny of small decisions :Odum, W.E., 1982, BioScience 32, 728-729.
- "The human impact on the natural environment": Andrew Goudie, Blackwells, 388 pp.
- "Planet under stress": Constance Mungall and Digby McLaren (eds.) For the Royal Society of Canada, Oxford University Press, 344 pp.
- "Environmental Science": William Cunningham and Barbara Saigo, Wm. C. Brown Publishers, 622 pp.
- "Geosystems": Robert Christopherson, Macmillan, 616 pp.
- "Global Environmental issues": Kevin Pickering and Lewis Owen, Routledge, 389 pp.
- "Environment": Peter Raven, Linda Berg and George Johnson, Saunders College Publishing, 567 pp.
- "Environmental Science", Sixth Edition, Enger, E.D., and B.F. Smith, McGraw-Hill.
- Chemistry, 4th Edition by Julia Burdge, 2017, McGraw Hill.