



Basic Course Information

Semester:	Summer 2024	Instructor Name:	Patrick Pauley
Course Title & #:	AG/ENVS 110	Email:	patrick.pauley@imperial.edu
CRN #:	30013/30014	Webpage (optional):	N/A
Classroom:	Online (CANVAS)	Office #:	Online (Email)
Class Dates:	June 17, 2024 – July 25, 2024	Office Hours:	N/A
Class Days:	Monday - Thursday	Office Phone #:	(760) 355 - 6363
Class Times:	N/A Online	Emergency Contact:	
Units:	3	Class Format/Modality:	

Course Description

This course is designed to provide students with an overview and understanding populations and the natural environment. The class will focus on basic concepts of science and ecosystem theory, human impacts on the biosphere, air, water, land, and environmental problems faced by the Imperial Valley that have regional and global consequences, and some of the proposed solutions. Field trips and activities may be included in this course. (Same as AG 110) (CSU, UC)

Course Prerequisite(s) and/or Corequisite(s)

None

Student Learning Outcomes

Identify important issues in environmental science at the local, state, national or international level (such as air and water quality, species diversity, soil and land use etc)including the various causes, possible long term repercussions and possible solutions. (ILO1, ILO2, ILO3 & ILO4)

Course Objectives

Upon satisfactory completion of the course, students with a grade of “C” or better will be able to:

1. Describe the role of science, the use of the scientific method, the importance of stewardship, and the concept of sustainability in the environmental field. The student will also identify local and global environmental challenges.
2. Recognize and describe the science, structure, function, dynamics, adaptations of and major threats to local and global ecosystems.
3. Describe the environmental impacts of human population growth and material consumption nationally and internationally. The student will also identify some of the solutions that can address the population and consumption challenges.
4. Describe the importance of protecting wildlife and habitats and conserving biodiversity. The student will identify endangered species found at the Salton Sea and local deserts and describe efforts to protect them. The student will also describe the characteristics of distinct local habitats (the Salton Sea, deserts, agriculture) and the efforts of effectively manage and conserve them.
5. Describe the hydrological cycle and identify ways that humans negatively impact it. The student will describe the quality of fresh water globally and identify major sources of water pollution. The student will apply these principles to local bodies of water such as the New, Colorado and Alamo Rivers, and the Salton Sea. The student will also describe the political aspects of water allocations of the Colorado River and its impact on the Imperial Valley.

6. Describe the state and federal laws and regulatory agencies that govern environmental concerns of air, water, land, human health, and chemical hazards. The student will also describe the use of cost-benefit analysis in the development of environmental policies.
7. Identify common human health effects of environmental exposures. The student will recognize the steps involved in risk perception affects individual and group decision making, and strategies for managing risks.
8. Describe agricultural practices in the Imperial Valley with regard to the following concepts: soil characteristics; use of irrigation; the benefits and drawbacks of pest control and fertilizer use; the environmental impacts in air, water and soil and the economic impact regionally and nationally.
9. Identify the major sources of air pollution locally and nationally. The student will recognize the benefits and environmental impacts of fossil fuels and describe alternatives to its use such as the development of solar, wind and geothermal energy and the development of public transportation systems and alternative fuels for vehicles.
10. Describe how materials are managed to minimize or eliminate environmental impacts. The student will identify the federal regulations governing the clean-up and handling of chemical had hazardous materials. The student will also describe the process of managing solid waste from source reduction to recycling.
11. Identify solutions to local and global environmental problems. The student will also describe how politics, citizen involvement, and personal commitment can shape these solutions.

Textbooks & Other Resources or Links

Environmental; The Science Behind the Stories, by Jay Withgott & Matthew Laposata – ISBN 978-0- 13-448599-7

Course Requirements and Instructional Methods

Exams:

There will be six (6) exams covering chapters assigned. The power points have already been uploaded.

Assignments:

In addition, there will two (2) papers. Green New Deal and Pandora’s Promise. I also have one (1) separate discussion for Green New Deal.

Discussions:

I also will be doing weekly discussions. I do expect you to participate in these discussion boards. Discussions are an important component of many online classes. They replicate in-class (face-to-face) discussions, so they can be fertile ground for exploratory learning. They can also be fertile ground for self-assessment. When students are directed to consciously compare their ideas or their participation with other participants in the class, they may be able to adjust their participation (both quantity and quality) to meet the bar set by other students. A total of six (6) discussions will take place online over the course of the semester.

Course Grading Based on Course Objectives

Class grading will be based on points accumulated in the following ways.

- Six (6) Exams Covering Chapters Assigned - 100 points each
- One (1) Green New Deal Discussion Board – 100 points
- Two (2) papers – Pandora’s Promise & Green New Deal. (I would like the paper to be typed, double spaced, font to be Helvetica or Ariel and 12pt) - 100 points each
- Weekly Class Participation (6 weeks) – 25 points each



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* Exams may include true/false, multiple choice and short answer questions. Missed quizzes and exams must be cleared with the professor to be made-up. Asking to make-up missed quizzes or exams is your responsibility and needs to be for a reasonable excuse. You have all day from 12:00AM to 11:59PM to take Exams/Quizzes. This is 24 hours so plan accordingly.

Grading: A = 100 – 90% B = 89 – 80% C = 79 – 70% D = 69 – 60% F = < 59%

Academic Honesty (Artificial Intelligence -AI)

IVC values critical thinking and communication skills and considers academic integrity essential to learning. Using AI tools as a replacement for your own thinking, writing, or quantitative reasoning goes against both our mission and academic honesty policy and will be considered academic dishonesty, or plagiarism unless you have been instructed to do so by your instructor. In case of any uncertainty regarding the ethical use of AI tools, students are encouraged to reach out to their instructors for clarification.

Course Policies

What does it mean to “attend” an online class?

Attendance is critical to student success and for IVC to use federal aid funds. Acceptable indications of attendance are: •

- Student submission of an academic assignment.
- Student submission of an exam.
- Documented student interaction with class postings, such as weekly discussions.
- A posting by the student showing the student's participation in an assignment created by the instructor.
- A posting by the student in a discussion forum showing the student's participation in an online discussion about academic matters.
- An email from the student or other documentation showing that the student has initiated contact with a faculty member to ask a question about an academic subject studied in the course.

Logging onto Canvas alone is NOT adequate to demonstrate academic attendance by the student.

What is online netiquette?

Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word. Basically, netiquette is a set of rules for behaving properly online.

Students are to comply with the following rules of netiquette: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others’ opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].

IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

Anticipated Class Schedule/Calendar



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Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1 June 17 - 20	Module 0: Orientation Module 1 (Week 1): Chapter 1 - Science and Sustainability: An Introduction to Environmental Science & Chapter 2 – Earth’s Physical Systems: Matter, Energy, and Geology	Chapter 1 & 2: Pages 2 – 45 Exam 1: Chapters 1 & 2 – June 20 Discussion: About You – June 21 Student Self-Evaluation – June 21
Week 2 June 24 - 27	Module 2 (Week 2): Chapter 9 - The Underpinnings of Agriculture & Chapter 10 - Making Agriculture Sustainable	Chapter 9 & 10: Pages 208 – 267 Exam 2: Chapters 9 & 10 – June 27 Discussion: Environmental Issues – June 28 Assignment: Pandora's Promise Question – June 28 Student Self-Evaluation – June 28
Week 3 July 1 - 3	Module 3 (Week 3): Chapter 6 - Ethics, Economics, and Sustainable Development, Chapter 7 - Environmental Policy: Making Decisions and Solving Problems & Pandora’s Promise	Chapters 6 & 7: Pages 130 – 183 Exam 3: Chapters 6 & 7 – July 3 Discussion: Plastics– July 5 Assignment: Pandora's Promise – July 5 Student Self-Evaluation – July 5
Week 4 July 8 – 11	Module 4 (Week 4): Chapter 19 – Fossil Fuels: Sources, Uses, Impacts, and Conservation & Chapter 21 - New Renewable Energy Alternatives	Chapter 19: Pages 514 – 547 Chapters 21: Pages 576 – 60 Exam 4: Chapters 19 & 21 – July 11 Discussion: Raw Sewage– July 12 Student Self-Evaluation – July 12
Week 5 July 15 - 18	Module 5 (Week 5): Chapter 8 - Human Population, Chapter 12 - Forests, Forest Management, and Protected Areas and Green New Deal	Chapter 8: Pages 184 – 207 Chapter 12: Pages 300 - 329 Exam 5: Chapters 8 & 12 – July 18 Discussion: World Population – July 19 Discussion: Green New Deal – July 19 Assignment: Green New Deal – July 19 Student Self-Evaluation – July 19
Week 6 July 22 - 25	Module 6 (Week 6): Chapter 13 - The Urban Environment - Creating Sustainable Cities & Chapter 20 - Conventional Energy Alternatives	Chapter 13: Pages 330 – 351 Chapter 20: Pages 548 - 575 Final Exam: Chapters 13 & 20 – July 25 Discussion: It’s Closing Time... – July 26 Student Self-Evaluation – July 26

*****Subject to change without prior notice*****