

Basic Course Information				
Semester:	Fall 2023	Instructor Name:	Patrick Pauley	
Course Title & #:	AG/ENVS 110	Email:	patrick.pauley@imperial.edu	
	10001/10002			
	10003/10004			
	10005/10006			
CRN #:	10468/10469	Webpage (optional):	N/A	
Classroom:	Online (CANVAS)	Office #:	Online (Email)	
	August 14, 2023 – December		Monday – Thursday 7AM –	
Class Dates:	8, 2023	Office Hours:	8AM	
Class Days:	Online (CANVAS)	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

Discuss the growing human population and the related demand for resources (water, power, soil, hunger, etc.) and the impact that it places on agriculture.

Course Objectives

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

 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.
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.



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.
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 seven (7) exams covering chapters assigned. The power points have already been uploaded.

Assignments:

In addition, there will three (3) papers. Fed-Up, Green New Deal, and Pandora's Promise. I also have one (1) separate discussion for Green New Deal. There is also one (1) BIG class assignment that is called Disease & The Environment.

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 sixteen (16) 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.

- Seven (7) Exams Covering Chapters Assigned 100 points each
- One (1) Green New Deal Discussion Board 100 points



• One (1) Student Learning Outcome (SLO) Quiz – 20 points

• One (1) Disease & The Environment (I would like the paper to be typed, double spaced, font

to be Helvetica or Ariel and 12pt) - 200 points each

• Three (3) papers – Fed-Up, 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 (16 weeks) - 25 points each

* 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 Al 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 Al 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 <u>http://www.imperial.edu/studentresources</u> or click the heart icon in Canvas.

Anticipated Class Schedule/Calendar

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1	Module 0: Orientation	
August 14 - 18	Module 1 (Week 1): Chapter 1 - Science and	Chapter 1 : Pages 2 – 19
	Sustainability: An Introduction to Environmental	Discussion: About You – August 18
	Science	Student Self-Evaluation – August 18
Week 2	Module 2 (Week 2): Chapter 2 – Earth's Physical	Chapter 2: Pages 19 – 45
August 21 - 25	Systems: Matter, Energy, and Geology	Exam 1: Chapters 1 & 2 – August 24
		Discussion: Environmental Issues – August 25
		Student Self-Evaluation – August 25
Week 3	Module 3 (Week 3): Chapter 9 - The	Chapter 9: Pages 208 – 232
August 28 –	Underpinnings of Agriculture	Discussion: Human Health Risk – September 1
September 1		Student Self-Evaluation – September 1
Week 4	Module 4 (Week 4): Chapter 10 - Making	Chapter 10: Pages 233 – 267
September 5 - 8	Agriculture Sustainable	Exam 2: Chapters 9 & 10 – September 7
		Discussion: Screen Time and The Brain –
		September 8
		Student Self-Evaluation – September 8
Week 5	Module 5 (Week 5): Chapter 6 - Ethics,	Chapter 6: Pages 130 – 157
September 11 -	Economics, and Sustainable Development	Discussion: Mask Wearing and it's Effects –
15		September 15
		Student Self-Evaluation – September 15
Week 6	Module 6 (Week 6): Chapter 7 - Environmental	Chapter 7: Pages 158 – 183
September 18 -	Policy: Making Decisions and Solving Problems	Exam 3: Chapters 6 & 7 – September 21
22		Discussion: Mental Health – September 22
		Assignment: Pandora's Promise Question –
		September 22
		Student Self-Evaluation – September 22
Week 7	Module 7 (Week 7): Pandora's Promise	Assignment: Pandora's Promise – September
September 25 -		29
29		Discussion: Plastics – September 29
		Student Self-Evaluation – September 29
Week 8	Module 8 (Week 9): Chapter 19 – Fossil Fuels:	Chapter 19: Pages 514 – 547
October 2 - 6	Sources, Uses, Impacts, and Conservation	Discussion: Raw Sewage – October 6
		Student Self-Evaluation – October 6



Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 9	Module 9 (Week 9): Chapter 21 - New	Chapters 21: Pages 576 – 60
October 9 - 13	Renewable Energy Alternatives	Exam 4: Chapters 19 & 21 – October 12
00000019 15	Actives	Discussion: Fracking – October 13
		Student Self-Evaluation – October 13
Week 10	Module 10 (Week 10): Fed Up – Part 1	SLO Quiz – October 20
October 16 - 20		Discussion: Healthy Eating – October 20
000000110 20		Student Self-Evaluation – October 20
Week 11	Module 11 (Week 11): Fed Up – Part 2	
October 23 - 27	······································	Assignment: Fed Up – October 27
		Discussion: Exercise – October 27
		Student Self-Evaluation – October 27
Week 12	Module 12 (Week 12): Chapter 8 - Human	Chapter 8: Pages 184 – 207
October 30 –	Population	Exam 5: Chapter 8 – November 2
November 3		Discussion: World Population – November 3
		Student Self-Evaluation – November 3
Week 13	Module 13 (Week 13): Green New Deal	Discussion: Green New Deal – November 10
November 6 - 9		Assignment: Green New Deal – November 10
		Discussion: Niland Geyser – November 10
		Student Self-Evaluation – November 10
Week 14	Module 14 (Week 14): Chapter 12 - Forests,	Chapter 12: Pages 300 - 329
November 13 -	Forest Management, and Protected Areas	Exam 6: Chapter 12 – November 16
17		Discussion: Forest Fires – November 17
		Student Self-Evaluation – November 17
November 20 - 24	NO SCHOOL	
Week 15	Module 15 (Week 15): Chapter 13 - The Urban	Chapter 13: Pages 330 – 351
November 27 –	Environment - Creating Sustainable Cities	Assignment: Disease & The Environment –
December 1		December 1
		Discussion: Urban Environment – December 1
		Student Self-Evaluation – December 1
Week 16	Module 16 (Week 16): Chapter 20 -	Chapter 20: Pages 548 - 575
December 4 - 8	Conventional Energy Alternatives	Final Exam: Chapters 13 & 20 – December 7
		Discussion: It's Closing Time – December 8
		Student Self-Evaluation – December 8

Subject to change without prior notice