

Basic Course Information

Semester:	Fall 2017	Instructor Name:	David Bradshaw
Course Title & #:	AG 110 / ENVS 110	Email:	david.bradshaw@imperial.edu
CRN #:	10009 / 10010	Webpage (optional):	n/a
Classroom:	1602	Office #:	n/a
Class Dates:	8/16/17 - 12/6/17	Office Hours:	n/a
Class Days:	Wednesday	Office Phone #:	442-271-5999
Class Times:	6:30 pm - 9:40 pm	Emergency Contact:	Text message 442-271-5999
Units:	3.0		

Course Description

This course is designed to provide students with an overview and understanding of the relationships between human 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)

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. 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)
2. Identify traditional and alternative energy sources including advantages & disadvantages of each. (ILO2 & ILO4)
3. Discuss the growing human population and the related demand for resources (water, power, soil, hunger, etc.) and the impact that it places on agriculture. (ILO1, ILO2, ILO4 & ILO5)

Course Objectives

Upon satisfactory completion of the course, students will be able to:

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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 and the deserts) and the efforts to effectively manage and conserve them.
5. Describe the hydrological cycle and identify ways that humans negatively impact the cycle. 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 water bodies such as the New 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 analysis, how 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 fertilizer use and pest control; the environmental impacts in air, soil, and water; 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 and 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

- Myers, Norman, Spoolman, Scott E. 2014. *Environmental Issues & Solutions*
Belmont. Cengage Learning ISBN: 9781435462311.

Course Requirements and Instructional Methods

Reading and writing:

Prepare a proposal paper which will assist students in preparing their research paper and science project on a topic of choice with approval of instructor. Reading assignments will require the student to conduct research through the text or other literature to find relevant information and will be assigned as the course progresses. These assignments may relate to any or all of the course objectives because the students are given a menu of topics to choose from that may include but are not limited to these topics: the role of science, stewardship, local and global ecosystems, conserving biodiversity, water management, federal agencies and laws, human health effects of pollution, agricultural impacts and solutions to them, air pollution, impacts of fossil fuel use, global climate change, materials management and recycling, sustainable solutions to environmental problems and personal commitment.

Out-of-class:

Students may attend field trips or community functions. Students will participate in group assignments which will require out-of-class cooperation to complete. These assignments may relate to any or all of the course objectives. Students will design a sustainable human settlement and draw a map of it and present their design to the entire class.

Out of Class Assignments: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

Course Grading Based on Course Objectives

Class grading will be based on points in the following distribution:

Presentation	50 points
Position Paper	100 points
Group Work	50 points
Quizzes	up to 100 points
Exams	up to 200 points
	<i>Total up to 500 points</i>

Class Participation Each student is expected to read the assigned material before coming to class. This will enable you to participate in the class discussions. Being able

to interact in this manner will have positive effects on your quiz and exam performance.

Position Paper

During this semester you will be required to write a paper on local environmental issues. The paper is worth 100 points. There will be a deduction of points for grammar, margins, format and spelling.

Group Presentation

You will be required to work in a group on one class presentation. I will provide some class time to do group work. However, if you feel your group needs more time then you will need to make arrangements with your group to work outside of class.

Quizzes

There will be up to 10 quizzes given this semester. The quizzes will mainly be over your assigned reading, previous regular/guest lecture. Each quiz is worth 10 points. ***No make-up quizzes will be given.***

Exams

Two exams will be given. Exams may include true/false, short answer, multiple choice, and short essay questions. Exams will be worth up to 100 points each.

Lecture Topics

Focus on local renewable energy including solar and geothermal with an emphasis on water and energy resources in the Imperial Valley.

Attendance

A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See [General Catalog](#) for details.

- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Classroom Etiquette

Electronic Devices: Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.

- Food and Drink are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.

- **Disruptive Students:** Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the [General Catalog](#).
- **Children in the classroom:** Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

Online Netiquette

What is 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 (!!!)].

Academic Honesty

Academic honesty in the advancement of knowledge requires that all students and instructors respect the integrity of one another's work and recognize the important of acknowledging and safeguarding intellectual property.

There are many different forms of academic dishonesty. The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

- **Plagiarism** is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to "cite a source" correctly, you must ask for help.
- **Cheating** is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the [General Catalog](#) for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

Additional Student Services

Imperial Valley College offers various services in support of student success. The following are some of the services available for students. Please speak to your instructor about additional services which may be available.

- **CANVAS LMS.** Canvas is Imperial Valley College's main Learning Management System. To log onto Canvas, use this link: [Canvas Student Login](#). The [Canvas Student Guides Site](#) provides a variety of support available to students 24 hours per day. Additionally, a 24/7 Canvas Support Hotline is available for students to use: 877-893-9853.
- **Learning Services.** There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your [Campus Map](#) for the [Math Lab](#); [Reading, Writing & Language Labs](#); and the [Study Skills Center](#).
- **Library Services.** There is more to our library than just books. You have access to tutors in the [Study Skills Center](#), study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the [Disabled Student Programs and Services](#) (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee.

- **Student Health Center.** A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC [Student Health Center](#) at 760-355-6128 in Room 1536 for more information.
- **Mental Health Counseling Services.** Short-term individual, couples, family and group counseling services are available for currently enrolled students. Services are provided in a confidential, supportive, and culturally sensitive environment. Please contact the IVC Mental Health Counseling Services at 760-355-6310 or in the building 1536 for appointments or more information.

Veteran's Center

The mission of the [IVC Military and Veteran Success Center](#) is to provide a holistic approach to serving military/veteran students on three key areas: 1) Academics, 2) Health and Wellness, and 3) Camaraderie; to serve as a central hub that connects military/veteran students, as well as their families, to campus and community resources. Their goal is to ensure a seamless transition from military to civilian life. The Center is located in Building 600 (Office 624), telephone 760-355-6141.

Student Equity Program

- The Student Equity Program strives to improve Imperial Valley College’s success outcomes, particularly for students who have been historically underrepresented and underserved. The college identifies strategies to monitor and address equity issues, making efforts to mitigate any disproportionate impact on student success and achievement. Our institutional data provides insight surrounding student populations who historically, are not fully represented. Student Equity addresses disparities and/or disproportionate impact in student success across disaggregated student equity groups including gender, ethnicity, disability status, financial need, Veterans, foster youth, homelessness, and formerly incarcerated students. The Student Equity Program provides direct supportive services to empower students experiencing insecurities related to food, housing, transportation, textbooks, and shower access. We recognize that students who struggle meeting their basic needs are also at an academic and economic disadvantage, creating barriers to academic success and wellness. We strive to remove barriers that affect IVC students’ access to education, degree and certificate completion, successful completion of developmental math and English courses, and the ability to transfer to a university. Contact: 760.355.5736 or 760.355.5733 Building 100.
- The Student Equity Program also houses IVC’s Homeless Liaison, who provides direct services, campus, and community referrals to students experiencing homelessness as defined by the McKinney-Vento Act. Contact: 760.355.5736 Building 100.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC [General Catalog](#).

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC [Library Department](#) provides numerous [Information Literacy Tutorials](#) to assist students in this endeavor.

Anticipated Class Schedule/Calendar

Class Schedule

<i>Date</i>	<i>Topic</i>	<i>Type</i>
08/16/17	Introductions, Syllabus	<u>Tapped DVD</u> , lecture
08/23/17	Mod. 1: Environmental Science and Sustainability	DVD quiz, lecture
08/30/17	Mod. 2: Population Growth, Mod. 1 Review	lecture
09/06/17	Mod. 3: Urbanization Mod. 2 Review	lecture
09/13/17	Mod. 4: Food Resources,	<u>Food Inc. DVD</u> , Mod. 3 Review
09/20/17	Mod. 6: Non-Renewable Energy (note module order)	Mod. 4 Review, DVD quiz, lecture
09/27/17	Mod. 5: Renewable Energy (note module order)	<u>Power Surge DVD</u> Mod. 6 Review

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10/04/17	Mod.10: Water Resources, IV Water Issues	Mod. 5 Review, DVD quiz, lecture
10/11/17	Midterm Module 1-6 , Imperial Valley Water	Midterm Exam , lecture
10/18/17	Mod.11: Water Pollution, I.V. Water Quality	I.V. Water quiz, lecture
10/25/17	<u>Cadillac Desert DVD</u> , Term Paper Assignment	Mod. 11 Review, lecture
11/01/17	Class Presentations 1	DVD quiz, presentations
11/08/17	Class Presentations 2	lecture, presentations
11/15/17	Salton Sea, Salton Sea DVD	Salton Sea Quiz
11/22/17	Thanksgiving Holiday Week, no class	
11/29/17	Mod.12: Air Pollution, <u>Gas Land</u> DVD, Final Review	DVD quiz
12/06/17	Final Exam, Module 10, 11, 12 IV, Gas land	Final Exam

*****Tentative, subject to change without prior notice*****