

## Imperial Valley College Course Syllabus – Fertilizers and Soil Fertility

### Basic Course Information

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|------------------|---|--|--|
| Semester         | <b>Spring 2015</b>                        | Instructor Name                                    | <b>Dr. Pat Pauley</b>  |
| Course Title & # | <b>AG 230</b>                             | Email  | <b>patrick.pauley@imperial.edu</b>   |
| CRN #            | <b>20074</b>                              | Webpage (optional)                                 |  |
| Room             | <b>2732</b>                               | Office   | <b>2773</b>  |
| Class Dates      | <b>February 18, 2015 – April 18, 2015</b> | Office Hours                                       | <b>Monday – Thursday<br/>0730 AM to 0830AM</b>   |
| Class Days       | <b>Monday and Wednesday</b>               | Office Phone #                                     | <b>760-355-6363</b>  |
| Class Times      | <b>0835 AM – 12PM M &amp; W</b>           | Office contact if student will be out or emergency | <b>Department Secretary<br/>Silvia Murray 760-355-6201<br/>or<br/>Ofelia Duarte 760-355-6155</b> |
| Units            | <b>3</b>                                  |  |  |

### Course Description

This course covers the nature of fertilizers and soil amendments, their properties, methods of application, and reaction upon soils and plants. The composition, value, and use of fertilizer materials and soil correctives will be discussed. Additionally, the methods employed in the manufacture, distribution, and application of fertilizers are described.

### Student Learning Outcomes

Upon course completion, with a grade of "C" or better, the successful student will have acquired new skills, knowledge, and/or attitudes as demonstrated by being able to:

- Identify an important issue in environmental science, conduct research via literature review, interviews with experts, and/or hands-on projects, and document the information sources by citing references parenthetically within a research paper and listing them at the end, using a standard documentation style, such as MLA. (ILO4)
- Use ecosystems thinking to design and create a visual representation of a sustainable human settlement, which functions on ecosystem principles and fulfills the ethic of caring for the earth and caring for the people. (ILO5)
- Identify an important issue in environmental science, conduct research on it via literature review, interviews with experts, and/or hands-on projects, and clearly communicate the content learned by giving a presentation to the class. (ILO1)

### Course Objectives

This course covers the concepts of using GPS, GIS, and various software applications in the process of production agriculture. Laboratory exercises will be engaged in to apply the concepts that are discussed in lecture. The IVC crop field and community garden will be used to gain practical experience in using field monitoring and mapping equipment. Additionally, programs MS Office (particularly Excel) will be used to create spreadsheets applicable to various crop and livestock enterprises. Students will also learn and apply analytical techniques in evaluating various soil conditions for suitability for use in production of various crop commodities based on salinity surveys and other industry reports.

### Textbooks & Other Resources or Links

**Soil Fertility and Fertilizers – An Introduction to Nutrient Management** (7<sup>th</sup> Ed),  
Havlin, Tisdale, Beaton, Nelson

**Western Fertilizer Handbook** (9<sup>th</sup> Ed), California Plant Health Association

### Course Requirements and Instructional Methods

Students must comply with all rules and regulations of Standards of Student Conduct outlined in the Imperial Valley College General Catalog. **For writing assignments I expect you to demonstrate proficiency in the use of the English Language.** Grammatical errors and writing that do not express ideas clearly will affect your grade. Students who are unable to write correctly and have trouble expressing ideas clearly are urged to contact the appropriate campus resources for assistance.

### Exams

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One exam will be given. Exams may include true/false, short answer, multiple choice, and short essay questions. Exams will be worth 100 points each. **NO MAKE-UP EXAMS!**

### Project

Fertilizer Plan to be developed and planned for a crop system of your choice.

### Course Grading Based on Course Objectives

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

- Project 200 points
- Attendance 50 points
- Class Participation 50 points
- Exams 200 points

**Grading** - Final grades will not be further adjusted as any "rounding" will be done on individual exams, quizzes or assignments.

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

### Attendance

The instructor as of the first official meeting of that class the first mandatory activity of an online class will drop a student who fails to attend the first meeting of a class or does not complete. 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.
- If you find that you need to excuse yourself early on rare occasion you should make every effort to get to class early so that you can sit close to the door. This will allow you to leave the room without disrupting the learning environment for your fellow students. Similarly, if you should not be able to avoid being late, it is your responsibility to come in and sit down in a manner that will not be disruptive. Either of these events are NOT to be regular occurrences for any given student. Additionally, it will be the student's responsibility to obtain notes for any missed class time, as I do not lend them.

### Classroom Etiquette

- **Electronic Devices:** I require that all cell phones, pagers and other noise making devices be **turned off or to vibrate** during class. If you must use these devices during class, I ask that you quietly and discretely leave the room. Failure to comply with such rules will earn you the opportunity to give a 5-minute oral presentation on an environmental topic of the instructor's choice during the next class period or to receive an automatic deduction of 20 points from your overall course grade.
- **Food and Drinks:** are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed.
- **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.

### Academic Honesty

- **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.

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- **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 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 School 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 Help – Discretionary Section and Language

- Blackboard support center: <http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543>
- Learning Labs: There are several 'labs' on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Study Skills Center (library). Please speak to the instructor about labs unique to your specific program.
- 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, 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. We now also have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/>. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

### Student Rights and Responsibilities

Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities, please refer to the IVC General Catalog available online at [http://www.imperial.edu/index.php?option=com\\_docman&task=doc\\_download&gid=4516&Itemid=762](http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762)

### Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/>