

### Basic Course Information

|                    |   |                     |  |
|--------------------|---|---------------------|--|
| Semester:          | Spring 2017   | Instructor Name:    | Dr. Michael Kanyi  |
| Course No. & Title | AG 170 – Principles of Entomology                       | Email:              | michael.kanyi@imperial.edu   |
| CRN #:             | 21023   | Webpage (optional): |  |
| Classroom:         | 2732  | Office #:           | 3114   |
| Semester Dates:    | February 13 – June 9                                    | Office Hours:       | TR 12:50 PM – 1:50 PM<br>MW 4:30 PM – 5:30 PM                                |
| Class Days:        | Monday & Wednesday                                      | Office Phone #:     | 760-355-5717   |
| Class Times:       | M -Lecture 5:30 PM – 7:35 PM<br>W-Lab 5:30 PM – 8:40 PM | Emergency Contact:  | Frances Arce-Gomez Industrial<br>Technology Staff Secretary<br>760 -355-6361 |
| Units:             | 3   |                     |  |

### Course Description

This course covers the principles of the classification, identification, anatomy, physiology, ecology, management, and collecting of arthropods (i.e., insects, spiders, mites, etc.), with emphasis on those of importance to agriculture. (CSU, UC)

### Student Learning Outcomes -SLOs

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

1. Identify, link and report common pests to the crop and type of damage (ILO1, ILO2, ILO4).
2. Prepare mounted specimens and label according to discipline protocol (ILO1, ILO2, ILO4).
3. Identify and discuss interrelations between host crop, pest insect & beneficial insects (ILO1, ILO2, ILO4).

### Course Objectives

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

1. Describe the important ways arthropods relate to humans.
2. Identify the important anatomical structures of arthropods.
3. Identify the development and stages of arthropod growth.
4. List the important classes and orders of arthropods.
5. Identify major pest arthropods and demonstrate the principles of arthropod identification.
6. Describe the key concepts in arthropod pest management and control.
7. Describe the important ways that arthropods are beneficial to humans, including pollination of crops.
8. Demonstrate the principles of sampling, collecting, preserving, and mounting arthropods.
9. Develop an arthropod collection

### Textbooks & Other Resources or Links

#### Required Text Book

1. Elzinga, Richard 2004. Fundamentals of Entomology 6th. Pearson/Prentice Hall ISBN: 978-0130480309

**Other Recommended Books**

1. Gullan, P.J 2011. The Insect: An Outline of Entomology 4th. Wiley-Blackwell ISBN: 978-1444330366.
2. Pedigo, L. and Rice, M 2009. Entomology and Pest Management 6th. Pearson/Prentice Hall ISBN: 978-0135132951.

**Course Requirements and Instructional Methods**

Learning activities for this class will include, but not limited to, instructor’s guided discussions, lecture, lab and field practical experience, individual and group presentations, assignments, and tests. **Participation in class learning activities is highly encouraged and will have a significant effect on the final grade.** Critical thinking approach in addressing issues related to insect pests and other arthropods will be emphasized.

| Course Syllabus |   |
|-----------------|---|
|                 | <i>Topics</i>   |
| 1.              | Course overview<br>Arthropods and their relationship to humans  |
| 2.              | Arthropod anatomy   |
| 3.              | Arthropod physiology  |
| 4.              | Arthropod ecology   |
| 5.              | Reproduction and development of arthropods  |
| 6.              | Classification. Important classes and orders of arthropods<br>A. Identification and characteristics of specific orders<br>B. Examples in each order |
| 7.              | Principles of arthropod pest management   |
| 8.              | A. Cultural method of pest control  |
| 9.              | B. Chemical method of pest control  |
| 10.             | C. Biological method of pest control  |
| 11.             | D. Integrated pest management   |
| 12.             | Forensic entomology   |
| 13.             | Collecting, mounting, labeling, displaying, and storing arthropods.   |

\*\*\*This syllabus may be subject to change \*\*\*

**Course Grading Based on Course Objectives**

Students are advised to acquaint themselves with all rules and regulations of Standards of Student Conduct outlined in the Imperial Valley College General Catalog. For writing assignments, it is expected that each student will demonstrate proficiency in the use of the English Language. Grammatical errors and writing that do not express ideas clearly will affect your grade.

**Individual Research Paper and Presentation**

There will be one research paper write-up (100 point) about an agricultural economics issue of your choosing. Specific details about this paper, including due dates will be announced in class.

### ***Practical demonstrations and Lab Work***

Students will participate in field demonstrations and lab work. Participation will be graded out of a possible 100 points.

### ***Group Work and Presentation***

There will be one group presentation (group membership will be determined). Class time will be set for this task. However, students might need some extra time outside the set class time to complete their work. Details about this assignment will be communicated in the due course.

### ***Exams***

There will be two continuous assessment sit-in tests and a final exam. Exams may include true/false, short answer, multiple choice, and short essay questions. All students are advised to strictly adhere to the dates and times for the tests which will be communicated.

### ***Distribution of grading points***

- Research Paper and Presentation 100 points
- Field work/project and Lab activities 100 points
- Attendance and class participation 100 points
- Mid-term test 100 points
- Final Exams 100 points

### ***Grading***

Final score will be calculated out of possible 500 points (100%). Final grade will be as follows:

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

## **Attendance**

- A student who fails to attend the first meeting of this class will be dropped by the instructor as of the first official meeting. 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 Support Site](#). The Canvas Support Site provides a variety of support channels available to students 24 hours per day.
- [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 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 therapy are provided to currently enrolled students. Contact the IVC [Mental Health Counseling Services](#) at 760-355-6196 in Room 2109 for more information.

### 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.