

### Basic Course Information

Semester	<b>Fall 2020</b>	Instructor Name	<b>Oscar J. Hernandez</b>
Course Title & #	<b>Math 019 Elementary Statistics Support</b>	Email	<b>Oscar.hernandez@imperial.edu</b>
CRN #	<b>11633</b>	Webpage (optional)	
Room	<b>Online</b>	Office	<b>Room 2767/1</b>
Class Dates	<b>August 17 – December 12</b>	Office Hours	<b>Online</b>
Class Days	<b>T, Th</b>	Office Phone #	
Class Times	<b>Online 10:15 AM – 12:20 PM</b>	Office contact if student will be out or emergency	<b>Send an e-mail. Oscar.hernandez@imperial.edu</b>
Units	<b>1</b>		

### Course Description

This course is intended for students to take concurrently with Math 119. Included will be the review of union and intersection of sets, interval notation, solving linear equations for a specified variable, review linear equations, application problems utilizing inequalities, review of properties of exponents, introduction to functions, overview of non-linear functions, review of sigma notation, factoring and binomial theorem. (Nontransferable, nondegree applicable).

### 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. Demonstrate problem solving strategies by identifying an appropriate method to solve a given problem, correctly set up the problem, perform the appropriate analysis and computation, and share their interpretation of the conclusion or the outcome, using correct grammar or in an oral presentation. This outcome will be assessed through selected exercises on exams throughout the semester. (ILO1, ILO2)

### Course Objectives

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

1. Find the union and intersection of sets
2. Express a solution in interval notation
3. Use properties of exponents
4. Solve linear equations for a specified variable
5. Understand and graph linear equations
6. Solve application problems utilizing linear inequalities
7. Understand functions and their relations.
8. Identify non-linear equations.
9. Use sigma notation.
10. Factor quadratic equations.
11. Understand the binomial theorem.

### Instructional Methodology:

Audio Visual  
Demonstration  
Discussion  
Group Activity  
Lecture  
Distance Learning

### Assignments:

Reading and writing

Students will be assigned exercises (Mymathlab), that supplement pre-requisite knowledge for Math 119

### Textbooks & Other Resources or Links

No textbooks will be required for this course. Supplemental material will be available for download on canvas.

### Course Requirements and Instructional Methods

**A. PREREQUISITES, if any:**

**B. COREQUISITIES, if any:**

**C. RECOMMENDED PREPARATION, if any:**

**Homework is done at Mymathlab, Check all Due Dates.**

### Course Grading Based on Course Objectives

**Grading:** You need to get at least 70% overall grade on assignments to pass the course.

Pass/No Pass Only

### Attendance

The first day of class is of utmost importance. If, for some reason, you absolutely can't attend, please make sure you e-mail me.

- 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.
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### 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

- **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 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

- **Canvas support center:** <http://community.canvaslms.com/docs/DOC-10701>
- **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/>

### **Anticipated Class Schedule / Calendar**

Sets:

- Language and notation
- Interval Notation
- Union and Intersection

Functions and Relations:

- Definition of a function
- Function notation
- Domain and Range of a function
- Find function values from a graph

Exponents:

- Use properties of exponents

Linear Equations:

- Review rectangular coordinate system
- Slope-intercept form of an equation
- Identify x and y –intercepts
- Find a linear equation from a graph
- Find a linear equation given two points

Graph linear equations  
Solve linear equations for a specified variable  
Solve application problems utilizing linear inequalities

Identify Non-linear functions, including:

Quadratic  
Logarithmic  
Square root  
Exponential

Radical Expressions:

Simplify radical expressions  
Operations on radical expressions  
Rationalize denominator of radical expressions

Solve Equations:

Linear Equations  
Quadratic Equations, including solve by factoring, square root property, complete the square, and the quadratic formula  
Rational Equations.  
Radical Equations  
Exponential Equations  
Logarithmic Equations.

Non- Linear Inequalities:

Simplify radical expressions  
Operations on radical expressions  
Rationalize denominator of radical expressions

Sigma Notation:

Recognize sigma notation  
Perform operations using Sigma Notation

Binomial Theorem:

Factor quadratic equations  
Apply the Binomial Theorem

