

Basic Course Information

Semester:	Spring 2019	Instructor Name:	Dr. Cassondra Lochard
Course Title & #:	Geometry in Elem Math	Email:	Cassondra.lochard@imperial.edu
CRN #:	20116	Webpage (optional):	Canvas
Classroom:	2721	Office #:	
Class Dates:	2/11/19 - 6/7/19	Office Hours:	Tuesday: 6-7 pm Wednesday: 5:15-6:15 pm Thursday: 6-7 pm
Class Days:	Wednesdays	Online office hour:	Monday: 1 pm -2 pm
Class Times:	6:30 pm – 9:40 pm	Office Phone #:	760-355-
Units:	3	Emergency Contact:	760-355-6155

Course Description

Recommended for students who are working towards a teaching credential in elementary education. Topics discussed are decimals and percents, geometry, geometric constructions, rotations, translations, measurements and problem solving. (CSU) (UC credit limited. See a counselor)

Course Prerequisite(s) and/or Corequisite(s)

MATH 091 or MATH 090 with a grade of "C" or better. Recommended to take Math 110 first.

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 an understanding of the difference between area and perimeter (ILO1, ILO2, ILO3).
2. Determine the relationship between similar figures (ILO1, ILO2, ILO3).
3. Develop geometric formula for area or volume (ILO1, ILO2, ILO3).

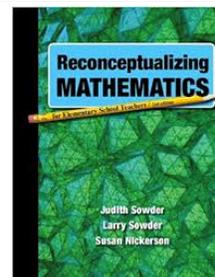
Course Objectives

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

1. Recognize two and three dimensional geometry, and solve a number of applications.
2. Demonstrate the basic idea of congruence and similarity and actively develop a number of geometric constructions.
3. Identify and apply different kinds of transformations, and various types of symmetrics.
4. Recognize a variety of geometric figures, and be able to use and apply formulae in both geometric and non-geometric context.
5. Graph using the Cartesian system of coordinates and will recognize the relationship that exists between algebra and geometry.
6. Solve word problems using the basic concepts of geometry and will identify various geometric patterns.
7. Demonstrate a knowledge of statistics and probability.

Textbooks & Materials

Reconceptualizing Mathematics, Sowder, Sowder and Nickerson, 3rd Edition,
ISBN: 9781464193330



Course Grading Based on Course Objectives

Grading:

Assignments	10%
Quizzes	17%
Exam 1	17%
Exam 2	17%
Exam 3	17%
Final Exam	22%
	100%

Numerical course grades are rounded to the nearest whole percentage and translate to a letter grade.

A= 90%-100% B=80%-89% C=70%-79% D=60%-69% F=0%-59%

Course Requirements and Instructional Methods

Attendance and Participation: Attendance and participation in both in class and online activities are important to your success in this class. Students who miss class are still responsible for announcements or changes regarding the course outline, class activities, homework assignments, due dates and exam dates. Your contribution to the learning environment will help me determine boarder line grades. Four instances of the following may result in you being dropped from the course.

- Missing class
- Leaving class early
- Missing a quiz
- Missing an exam
- Failure to complete assignments

Assignments: Class work assignments are given in class and the discussion about them help you prepare for homework. I encourage you to work with your classmates to complete assignments. The homework will help you prepare for lecture, quizzes and exams. Online assignments may be submitted late for 80% of your earned points.

Quizzes: For the most part quizzes will be drawn from the homework. There will be no make up quizzes.

Exams: There will be 3 exams, each worth 17% of your total grade. You must show all work on the exam to receive credit. Scratch paper is **NOT** allowed. You may use a scientific calculator on each exam. You may **NOT** use a graphing calculator. There will be no make-up exams. All exams are to be taken closed book, and closed notes. The Final exam will be cumulative.

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. **Consider:** specifics for your class/program
- **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.
- **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.
- **Children in the classroom:** Due to college rules and state laws, only students enrolled in the class may attend; children are not allowed.

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 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.

Extended Opportunity Program and Services (EOPS)

The Extended Opportunity Program and Services (EOPS) offers services such as priority registration, personal/academic counseling, tutoring, book vouchers, and community referrals to qualifying low-income

students. EOPS is composed of a group of professionals ready to assist you with the resolution of both academic and personal issues. Our staff is set up to understand the problems of our culturally diverse population and strives to meet student needs that are as diverse as our student population.

Also under the umbrella of EOPS our CARE (Cooperative Agency Resources for Education) Program for single parents is specifically designed to provide support services and assist with the resolution of issues that are particular to this population. Students that are single parents receiving TANF/Cash Aid assistance may qualify for our CARE program, for additional information on CARE please contact Lourdes Mercado, 760-355- 6448, lourdes.mercado@imperial.edu.

EOPS provides additional support and services that may identify with one of the following experiences:

- Current and former foster youth students that were in the foster care system at any point in their lives
- Students experiencing homelessness
- Formerly incarcerated students

To apply for EOPS and for additional information on EOPS services, please contact Alexis Ayala, 760-355-5713, alexis.ayala@imperial.edu.

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

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

Date	In Class Discussion
13-Feb	16.1 Review of Polygon Vocabulary 16.2 Organizing Shapes 16.3 Triangles and Quadrilaterals
20-Feb	17.1 Shoeboxes Have Faces and Nets! 17.2 Introduction to Polyhedra 17.6 Issues for Learning: Dealing with 3D Shapes
27-Feb	17.3 Representing and Visualizing Polyhedra 17.4 Congruent Polyhedra 17.5 Some Special Polyhedra
6-Mar	Bring Scissors and a ruler 18.1 Symmetry of Shapes in a Plane 18.2 Symmetry of Polyhedra 19.1 Tessellating the Plane 19.2 Tessellating Space
13-Mar	Exam 1
20-Mar	20.1 Similarity and Dilations in Planar Figures 20.2 More About Similar Figures
27-Mar	Bring a Compass and a ruler 20.3 Similarity in Space Figures 21.1 Planar Curves and Constructions 21.2 Curved Surfaces

Date	In Class Discussion
3-Apr	22.1 Some Types of Rigid Motions 22.2 Finding Images for Rigid Motions 22.3 A Closer Look at Some Rigid Motions
10-Apr	Exam 2
17-Apr	Spring Break
24-Apr	23.1 Key Ideas of Measurement 23.2 Length and Angle Size
1-May	24.1 Area and Surface Area 24.2 Volume
8-May	25.1 Circumference, Area, and Surface Area Formulas 25.2 Volume Formulas
15-May	26.1 The Pythagorean Theorem 26.2 Some Other Kinds of Measurements
22-May	Exam 3
29-May	Review
5-Jun	Final Exam