Thank you for choosing IVC! We are so happy to join you in your educational journey.

## Basic Course Information

| | | | |
|---|---|---|---|
| Semester: | **Spring 2023** | Instructor Name: | **Jill Kitzmiller** |
| Course Title & #: | **Math 110** | Email: | **jill.kitzmiller@imperial.edu** |
| CRN #: | **20049** | Webpage (optional): | |
| Classroom: | **2722** | Office #: | **2768** |
| Class Dates: | **2/13/23 – 6/9/23** | Office Hours: | **9–9:30 am or 2:30 – 3:30 pm T/Th and 9:30–10 MW by text/zoom** |
| Class Days: | **T/Th** | Office Phone #: | **760-355-6296** |
| Class Times: | **1:00 – 2:25 pm**<br>**Support class 11:50- 12:55** | Emergency Contact: | **Sylvia Murray – Staff Sec 760-355-6201** |
| Units: | **3** | Class Format: | **In person on campus** |

## Course Description

This course focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. (CSU) (UC credit limited. See a counselor)

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

**Prerequisite:** Appropriate placement as defined by AB705 or MATH 098 or MATH 091 with a grade of "C" or better.
**** Prior to taking this course you are expected to be able to perform basic calculations with whole numbers, decimals, fractions and percent without the use of a calculator.**

## In Person Courses

This class meets in person on campus. You are expected to addend every class meeting. 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.

## Textbooks & Other Resources or Links

**Reconceptualizing Mathematics 3rd edition; Sowder.** Freeman ISBN-13: 978-1-4641-9333-0.
The e-book is a good option or you can order a used book online if you don't have the text already.

A scientific calculator is desirable. Worksheets done in class each day are posted on Canvas. You will need to be able to print a few documents during the semester.

## 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 knowledge of operations and properties by creating story problems (ILO1, ILO2, ILO3)
2. Demonstrate knowledge of operations by modeling the solutions (ILO1, ILO2, ILO3).
3. Demonstrate an understanding of place value by counting in bases other than ten (ILO1, ILO2, ILO3).

## Course Objectives

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

1. Analyze mathematical patterns and will solve problems with the calculator as a supporting tool.
2. Demonstrate an understanding and comprehension of topics dealing with sets, functions and numeration.
3. Demonstrate an understanding and a working knowledge of whole numbers with emphasis placed on various bases.
4. Demonstrate an understanding and comprehension of elementary concepts of integer arithmetic.
5. Analyze basic number theory.
6. Demonstrate an understanding and comprehension of elementary concepts of fractional numbers, and the use of decimals and exponents.
7. Demonstrate knowledge of ratios and proportions.

## Course Requirements and Instructional Methods

The textbook for this class is designed for learning through discussions and activities and generally does not give examples to follow. Some of the important material is given in homework problem format, not as material to read. It will be difficult to understand the material or pass the class if you do not attend all class meetings and do all of the homework.

Lectures will follow PowerPoint slides from the textbook and cover the associated worksheets posted on the home page of Canvas. I will print the worksheets and have them available during each class. Ask questions during lecture if you are having difficulty with the material or come to office hours. You may also get extra tutoring online from the Math Lab or Library Services Study Skills Center (links are on the homepage of Canvas.) You cannot learn mathematics without doing the problems.

**Evaluation is based on examinations and homework assignments.**

**HOMEWORK**: There will be homework assigned for each of the 9 mandatory chapters. Homework points will be awarded on the basis of completeness and quality of work, minimal quality (including just turning in answers with no corresponding work) will receive minimal points. Homework will be a maximum of 10 points each chapter regardless of length of assignment. There will be projects assigned that will supplement homework, and must be quality work. Problems done for homework, and discussed during class, are designed to help you understand concepts and learn to communicate mathematically. All due dates are posted on Canvas. Work can be turned in during class or online using a link in Canvas where you upload your work. Any late homework or project will receive a maximum of 50% of assigned points.

**EXAMS**: There will be 3 exams and one cumulative final exam. Each test (other than the final) will consist of two parts, one part multiple choice taken online and the second part that is taken in class, where you show your work (no notes allowed for in class tests). The final exam is multiple choice only. Each exam is available for several days online after it is assigned, and you can choose the time when you take the exam. You only have one chance to take each exam and once you open an exam, you have to finish it within a limited amount of time. I recommend using **Google Chrome Browser** on your computer to open tests. This seems to work best with pictures. There are **NO make-up exams** without a doctor note and/ or arranged in advance. Any missed test that was not rescheduled in advance will receive a 15% reduction in grade. **The final exam is cumulative and mandatory for all students.** Any missing exam grade will be recorded a 0.

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

Points in this course are earned and grades are given according to the scale outlined below. All assignments are posted on Canvas along with the corresponding points and due dates. If any modification to assignments is necessary, students will be notified and changes will be made on Canvas. Grades are not negotiable. All students will be treated equally. Your scores on each assignment or exam will be posted on Canvas. Your grade will be based on the percent of points you have earned by the end of the semester.

**GRADING**

Breakdown: 90% and up = A, 80 – 89% = B, 70 – 79% = C, 60 – 69% = D, below 60% = F.

**INCOMPLETE GRADES**: To receive a final grade of incomplete, you must be passing the class and be unable to take the final exam.

## Communication and Feedback Policies

I strive to check my email every day and try to respond to everyone within 24 - 48 hours if you require a response. I prefer that you email me using your IVC email address or from Canvas, sometimes emails from other sources go to junk mail and I do not see them. If you do **not** email me through Canvas, be sure to include the class you are enrolled in in the subject of your email. If you have not heard from me within the time period above, you can assume that I did not get your email and contact me again. I DO NOT look at email on the weekends (Friday- Sunday) or on holidays.

I communicate with the entire class during class and using announcements posted on Canvas. I will answer questions during class, in office hours, or by email. **Please check Canvas regularly for announcements.** Any updates, reminders, or changes, I will post as an announcement or send an email via Canvas messaging.

**All assignments should be turned in using Canvas or in class.** Normal turn around for grading assignments is within one week of the due date. If you are emailing an assignment because you had an issue with turning it in using Canvas, give me a few extra days to grade it. Grades will be posted as they are scored and will be kept track on Canvas' grade book in which students can access**.** Answer keys to some assignments will be posted and questions on assignments discussed in class.

## IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit http://www.imperial.edu/studentresources or click the heart icon in Canvas.

## Course Policies

***Attendance and drop Policy***

You must attend the first day of class or you will be dropped from the course as a 'No Show.' Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class.

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.

**It is the student's responsibility to drop or officially withdraw from the class.**

***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 are intended to serve as examples of unacceptable academic conduct.

- Copying from others on a quiz, test, examination, or assignment;
- Allowing someone else to copy your answers on a quiz, test, exam, or assignment;
- Having someone else take an exam or quiz for you;
- Conferring with others during a test or quiz

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.

## Anticipated Class Schedule/Calendar

Tentative Schedule – Math 110 – CRN 20049 (classroom)

| | Tuesday | Thursday |
|---|---|---|
| Week 1<br>February 13-17 | Introduction | 11.1 |
| Week 2<br>February 20 - 24 | 11.2 | 11.3 – 11.4 |
| Week 3<br>Feb 27 – March 3 | 2.1 / Base 10 blocks | 2.2 |
| Week 4<br>March 6 – 10 | 2.3 | 2.3 – 2.4 / Base 5 blocks |
| Week 5<br>March 13 – 17 | 3.1 | Review |
| Week 6<br>March 20 – 24 | **Exam 1** | 3.1 – 3.2 |
| Week 7<br>March 27 – 31 | 3.3 – 3.4 | 3.5 |
| Week 8<br>April 3 – 7 | 4.1 | 5.1 |
| Week 9<br>April 10 – 14 | **Spring Break** | **Spring Break** |
| Week 10<br>April 17 – 22 | 5.2 | 5.3 – 5.4 |
| Week 11<br>April 24 – 28 | Review / 6.1 | **Exam 2** |
| Week 12<br>May 1 – 5 | 6.2 | 6.3 |
| Week 13<br>May 8 – 12 | 6.4 | 7.1 / pattern blocks |
| Week 14<br>May 15 – 19 | 7.2 – 7.3 | 8.1 – 8.2 |
| Week 15<br>May 22 – 26 | 9.1 – 9.2 | 9.3 / Review |
| Week 16<br>May 29 – June 2 | **Exam 3** | Review for Final |
| Week 17<br>June 5 – 9 | **FINAL EXAM** | |