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Basic Course Information

Semester:	**Fall 2022**	Instructor Name:	**Jill Kitzmiller**
Course Title & #:	**Math 110**	Email:	**jill.kitzmiller@imperial.edu**
CRN #:	**10046**	Webpage (optional):	
Classroom:		Office #:	**2768**
Class Dates:	**8/15/22 – 12/10/22**	Office Hours:	**12:15–1 or 4 – 4:45 pm T/Th 9:30–10 MW by text/zoom**
Class Days:	**MW**	Office Phone #:	**760-355-6296**
Class Times:	**8:00 – 9:30 am**	Emergency Contact:	**Sylvia Murray – Staff Sec 760-355-6201**
Units:	**3**	Class Format:	**RTOL**

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.**

Real Time Online Courses

This class is a synchronous online course, which means that **you have to attend the lectures**. The code for the zoom class will stay the same for the semester, and sent on an announcement / email prior to the start of the semester, and also posted on the home page of Canvas. The zoom classes normally last about 1 ½ hours and cover the notes posted on Canvas. Recordings of the class will be posted on Canvas after every class meeting so you can review the material or watch the lecture later if you miss class.

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 zoom 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 expect you to print the worksheets (or use a tablet which you can write on) and have them available during each class. Ask questions during lecture if you are having difficulty with the material or schedule 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. No late work is accepted after the answer key if posted.

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 is a pdf that you print and do your work on, then turn in upload of the written work. 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. **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. 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 be sure it is sent by the due date and time or it may be subject to the late turn in penalty. Also 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.

Netiquette and Online Behavior

You should always conduct yourself with professionalism and respect for the instructor and your fellow classmates. Attending a virtual meeting can be a challenge when there are many students on one conference call. Participating in such meetings may count as class attendance, but disruptive behavior may also result in you not being admitted to future meetings. Follow the tips listed below are some of the ones recommended by IVC for best results: Be respectful, find a quiet location and silence your phone, be ready to learn and pay attention, use your mute button when not speaking, remember to unmute when speaking, stay focused and participate in the meeting. When communicating by email be sure to identify yourself, be concise, and use appropriate language and emotion to clearly convey meaning.

Anticipated Class Schedule/Calendar

Fall 2022 Tentative Schedule – Math 110 – CRN 10046 (RTOL)

	Monday	Wednesday
Week 1 August 15 – 18	Introduction	11.1
Week 2 August 22 – 25	11.2	11.3 -11.4 / Number Theory Worksheet
Week 3 August 29 – Sept 1	2.1 / Base 10 blocks	2.2
Week 4 September 5 - 8	HOLIDAY	2.3
Week 5 September 12 – 16	2.3 – 2.4 / Base 5 blocks	3.1
Week 6 September 19 – 22	Review / Exam 1	3.1 – 3.2
Week 7 September 26 – 29	3.3 – 3.4	3.5
Week 8 October 3 – 6	4.1	5.1
Week 9 October 10 - 13	5.2	5.3 – 5.4
Week 10 October 17 – 20	Review / Exam 2	6.1
Week 11 October 24 – 27	6.2	6.3
Week 12 October 31 – Nov. 3	6.4	7.1 / pattern blocks
Week 13 November 7 - 10	7.2 – 7.3	8.1 – 8.2
Week 14 November 14 - 17	9.1 – 9.2	9.3
Week 15 November 21 - 24	**HOLIDAY**	**HOLIDAY**
Week 16 November 28 – Dec. 1	Review / Exam 3	Review for Final
Week 17 December 5 – 8	**FINAL EXAM**	**FINAL EXAM**