#### **Basic Course Information**

Semester	Spring 2015	Instructor's Name	Jill Kitzmiller
Course Title & #	Math 110 Number System	Instructor's Email	jill.kitzmiller@imperial.edu
	for Elementary Teacher		
CRN#	20374	Webpage (optional)	
Room	2722	Office	2768
Class Dates	2/17/15 - 6/12/15	Office Hours	8-8:30 am &10 – 11:30 am M W
			4:30 – 5:00 pm T/TH
Class Days	T/TH	Office Phone #	760 – 355 - 6296
Class Times	1:30 – 2:55 pm	Who students should	Ofelia Duarte – Staff Sec II
Units	3 units	contact if emergency	760 – 355 - 6155

## **Contacting Instructor**

I will be available during office hours for personal discussion. I endeavor to listen to voice-mail and look at email each day when I am on campus. I DO NOT look at email on the weekends (Friday-Sunday) or on holidays. I do not respond to email regarding absences, unless it is long term. I do not discuss grades over email; this must be done in person.

## **Course Description**

Recommended for students who are working towards a teaching credential in elementary education. Topics discussed are sets and relations, development of the number system from the natural numbers including whole, rational and real numbers, number theory, ratio and proportion. **Prerequisite:** MATH 091 or MATH 090 with a grade of "C" or better.

## **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 and modeling the solutions (ISLO1, ISLO2, ISLO3)
- 2. Demonstrate written mathematical communication skills (ISLO1, ISLO4)
- 3. Demonstrate analysis of children's multiplication and division errors (ISLO2, ISLO5)

#### **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.

#### **Textbooks & Other Resources or Links**

Reconceptualizing Mathematics ( $2^{nd}$  edition); Sowder. Freeman ISBN-13: 978-1-4641-0898-3 . Also needed is the worksheet packet available in reprographic services room 904 (or you can print your own copies from blackboard).

## **Course Requirements and Instructional Methods**

Classroom instruction will consist of a combination of lecture and exploratory activities designed for student led learning. You will be required to participate in class discussions, group work and presenting work to the class. Failure to participate in class activities/discussions can result in lowering of your grade. Problems done for homework and during class are designed to help you understand concepts and learn to communicate mathematically. Group work and assignments during class are mandatory and are not to be considered social time, texting/cell check or break time.

There will be homework assigned for each of the 11 chapters. Homework answers or partial outlines will be posted on blackboard. Since answers are available, homework points will be awarded on the basis of completeness and quality of work, minimal quality (including just copying down answers) will receive minimal points. Homework will be a maximum of 10 points regardless of length of assignment. (110 points)

There will be 6 quizzes that are open note and based on homework. Some will be in class, some may be takehome due the next class meeting. Some may also be done in groups. There are no make-up quizzes. Any missing quiz grade will be recorded as a 0. Your lowest quiz grade will be dropped. Quizzes will be 10 points each. (50 points)

There will be 3 in class exams and one final exam that are closed book and closed note. Students must work independently. Plan now to be in class on the date of the exams. No make-up exams will be given unless arranged in advance with supporting documentation. Any missing exam grade will be recorded a 0. Exams will be 100 points each. (400 points)

## I DO NOT give extra credit. You must complete the work and turn it in on time.

It is critical that you read ahead and ask questions. Stay organized, take good notes and read your notes after class. If you are having difficulty with the material, get help. Work with others outside of class, form a study group if possible. You are responsible for all material in assigned chapters and all material covered in lecture, even if you are absent, so find someone in class to make you copies of the notes if you cannot be in class.

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. In other words, **expect to spend 3 hours per week in the classroom AND at least 6 hours per week on homework for a 3 unit class.** 

## **Course Grading Based on Course Objectives**

Points earned in the course will be based on the following items. Points are approximate and may be modified according to extra or deleted assignments.

Homework: 110 points
Quizzes 50 points
3 Exams 300 points
Final exam 100 points
Total points 560 points

Your grade will be based on the following points and percentages:

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504 or more points (90 - 100\%) = A
448 - 503 points (80 - 89\%) = B
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392 - 447 points (70 - 79%) = C

336 - 391 points (60 - 69%) = D

Below 336 points = F

Class participation, attendance and a subjective instructor's interpretation of work may be used in assigning a final grade to borderline cases.

## **Incomplete Grade**

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

#### **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**

- <u>Electronic Devices:</u> Cell phones and electronic devices must be turned off and put away during class unless approved for appropriate math purposes. Cell phones or other electronic transmitting devises may not be used on any exam, even if you forget a calculator. You must have a non-transmitting calculator for exams when allowed. **Do not text or use your phone on line during class. Texting is disruptive to your learning and those around you and may be grounds for dismissal from class.**
- <u>Food and Drink</u> are prohibited in all classrooms. Water bottles or containers with lids/caps are the only exception.
- <u>Disruptive Students:</u> Any student who disrupts or interferes with another student's ability to learn or with instruction may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Examples include, but are not limited to, talking with other students during lecture, making disparaging remarks about another student's work or disrupting a contribution to discussions, answering phones or texting during class, reading non-math related materials such as magazines, watching or playing videos or games on an electronic devise. Disciplinary procedures will be followed as outlined in the General Catalog.
- <u>Children in the classroom:</u> Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.
- <u>Please be courteous of others:</u> Try to be on time to class, listen to others without interrupting, encourage other students to participate and share their work

### **Academic Honesty**

- <u>Plagiarism</u> is to take and present 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 correctly 'cite a source', you must ask for help.
- <u>Cheating</u> is defined as fraud, deceit, or dishonesty in an academic assignment or using or attempting to use materials, or assisting others in using materials, or assisting others in using materials, which 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) use of a commercial term paper service

### Additional Help - Discretionary Section and Language

- Blackboard support center: http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543
- <u>Learning Labs</u>: 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 Learning Services (library). Please speak to the instructor about labs unique to your specific program
- <u>Library Services:</u> There is more to our library than just books. You have access to tutors in the learning 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. If you feel you need to be evaluated for educational accommodations, the DSP&S office is located in Building 2100, telephone 760-355-6313.

## **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 <a href="http://www.imperial.edu/students/stu

## **Student Rights and Responsibilities**

#### **Information Literacy**

Imperial Valley College is dedicated to help students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <a href="http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/">http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/</a>

# Anticipated Class Schedule / Calendar

# TENTATIVE SCHEDULE – SPRING 2015 – Math 110 – Number System

Monday	Tuesday	Wednesday	Thursday
2/16	2/17	2/18	2/19
HOLIDAY	Introduction, 1.1		1.2 – 1.3
2/23	2/24	2/25	2/26
	2.1, 2.2		2.3
			CHAPTER 1 – HW DUE
3/2	3/3	3/4	3/5
	2.4, Quiz 1		3.1, 3.2
3/9	3/10	3/11	3/12
	3.3, 3.4		3.5, 3.6, Quiz 2
	CHAPTER 2 – HW DUE		
3/16	3/17	3/18	3/19
	Catch up / Review		Exam 1
			CHAPTER 3 – HW DUE
3/23	3/24	3/25	3/26
	4.1		5.1, 5.2
3/30	3/31	4/1	4/2
	5.3, 5.4, Quiz 3	·	6.1, 6.2
4/6	4/7	4/8	4/9
HOLIDAY	HOLIDAY	HOLIDAY	HOLIDAY
4/13	4/14	4/15	4/16
1,13	6.2, 6.3		6.4, 7.1
	CHAPTER 4 & 5 – HW DUE		
4/20	4/21	4/22	4/23
	7.2, 7.3, Quiz 4		Catch up / Review
4/27	4/28	4/29	4/30
	Exam 2		8.1, 8.2
	CHAPTER 6 & 7 – HW DUE		
5/4	5/5	5/6	5/7
	9.1, 9.2, Quiz 5	8.2	9.3, 10.1, 10.2
5/11	5/12	5/13	5/14
	10.3, 10.4		10.5, 10.6
			CHAPTER 8 & 9 – HW DUE
5/18	5/19	5/20	5/21
10.4,	11.1, 11.2, Quiz 6	10.6,	11.3, 11.4
5/25	5/26	5/27	5/28
HOLIDAY	Catch up / Review		Exam 3
			CHAPTER 10 & 11 – HW DUE
6/1	6/2	6/3	6/4
	Review for Final		Review for Final
6/8	6/9	6/10	6/11
	Final Exam		