

Imperial Valley College Course Syllabus – Course Title and number

Basic Course Information

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|------------------|---|--|---|
| Semester | S 2014 | Instructor Name | Barbara Nilson |
| Course Title & # | MA110 Number System for Elem Tchrs | Email | bnilson@imperial.edu |
| CRN # | 20139 | Webpage (optional) | |
| Room | 2722 | Office | 2762 |
| Class Dates | 1/22/14 – 5/14/14 | Office Hours | M 10:00-11:00 T 9:30-10:00 W 10:00-11:00 W 5:20-6:20 R 9:30-10:00 |
| Class Days | MW | Office Phone # | 760-355-6477 |
| Class Times | 835-1000 3 units | Office contact if student will be out or emergency | Ofelia Duarte – Staff Sec II 760-355-6155 |
| Units | | | |

Important Dates

| | |
|---------------------------------|---------------|
| Last Date to Add: | 02/01/2014 |
| Last Date to withdraw with “W”: | 04/12/2014 |
| Final Exam: | 05/15/2014 |
| IVC holidays (campus closed): | 02/14-17/2014 |
| Spring Break: | 04/21-26/2014 |

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. (CSU) (UC credit limited. See a counselor)

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

- Bassarear, Tom (2011). *Mathematics for Elementary School Teachers* (5th/e). Boston Houghton-Mifflin. ISBN: 978-0840054630
- Long, DeTemple (2011). *Mathematical Reasoning for Elementary Teachers* (6th/e). Reading, M.A. Addison-Wesley. ISBN: 978-0321693129
- Billstein, et. al. (2012). *A Problem Solving Approach to Mathematics for Elementary School Teachers* (11th/e). Reading, MA Addison Wesley. ISBN: 978-0321756664
- Software as needed:
Logo
Geometor/s Sketchpad
Stat Explorer

Course Requirements and Instructional Methods

The problems listed in the schedule and during class are to help you understand concepts and mathematical communication.

- Each homework assignment will have a fixed due date corresponding to the quiz that covers the material from that assignment. For example, homework for Chapter 1 would be due Week 2.
- Absolutely no late work will be accepted.
- The HW will receive a maximum of 20 points regardless of the length of the assignment.
- The HW points are awarded on the basis of completeness and quality. Minimal quality will result in minimal points.
- Group work and assignments during class are mandatory and are not to be considered as: social time; texting/cell check; break time.
- Failure to participate in group activities during class can result in a lowering of your grade.

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

Your grade will be comprised of the following items (points are approximate and may be modified according to extra or deleted assignments. Percentages will remain as close as possible to the predicted amount listed.):

| | | |
|---|-------------------|----------------|
| 11 chapters of homework @ 20 points/chapter | 220 points | ~32% |
| 8 quizzes@10 points each | 80 points | ~12% |
| 2 Exams @ 100 | 200 points | ~28% |
| 1 final exam @ 200 points | 200 points | ~28% |
| Total | 700 points | 100.00% |

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

| | | |
|-------------|----------------|---|
| 90% to 100% | 630-700 points | A |
| 80% to 89% | 560-629 points | B |

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| 70% to 79% | 490-559 points | C |
| 60% to 69% | 420-489 points | D |
| Below 60% | Below 420 points | F |

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

- Bottled water with leak-proof lids/caps is the only food or drink allowed in the room. (Styrofoam cups with lids are prohibited.)
- Cell phones or other electronic communication devices can only be used for appropriate math purposes. They may not be used during an exam. Texting or using your cell phone for calls during class can be grounds for dismissal from class.
- Disruption of other students will result in a reprimand or expulsions from the class for that day. A second offense can result in administrative discipline.
- Disruption in my class is defined as behavior that interferes with another student's ability to learn or is distracting to myself or others. Some examples are: talking with other students during lecture, ringing phones, texting, reading non-math materials such as magazines, watching and/or playing videos or games on an electronic device, cleaning out your backpack...
- Use only non-transmitting calculators during exams (i.e. no cell phones or other transmittal devices).
- Quality work is expected. If a student meets the stated requirements for an assignment, but does it in a minimal fashion, the maximum grade for the product will be points valued at "C". To earn points valued at "B" or "A" there must be reasonable quality in the work.
- Multiple infractions of my policies can result in a lowering of your grade by 1 letter.

Academic Honesty

- Plagiarism 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.
- 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, 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

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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>
- 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 Learning Services (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 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. 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 StudentHealth 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 islocated 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 dueprocess. For further information regarding student rights and responsibilities please refer to theIVC General Catalog available online at http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762

Information Literacy

Imperial Valley College is dedicated to help 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/>

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B Nilson MA110 – S2014 - Anticipated Class Schedule / Calendar

| Week | Week Begin | Lecture/ Readings | Quizzes/ Exams | Homework Due | Homework Assigned | Holidays |
|------|------------|---|-------------------|-----------------|---|------------------------------|
| 1 | 1/20/2014 | Ch1 | | | HW Ch1 - 1.2.4, 1.2.2(supp), 1.3.5, 1.4.3, 1.4.9 | |
| 2 | 1/27/2014 | Ch2 | Quiz Ch1 | HW Ch1 due | HW Ch2 - 2.2.1(supp), 2.3.2, 2.3.3, 2.3.9, 2.3.18 | |
| 3 | 2/3/2014 | Ch2-Ch3 | Quiz Ch2 | | HW Ch3 | |
| 4 | 2/10/2014 | Ch3-Ch4 | Quiz Ch3 | HW Ch2 due | HW Ch4 | Lincoln 2/14-15 |
| 5 | 2/17/2014 | Ch4 | Quiz Ch4 | HW Ch3 due | | Prsidents' 2/17 |
| 6 | 2/24/2014 | Ch5, | Exam Ch1-4 | HW Ch4 due | HW Ch5 | |
| 7 | 3/3/2014 | Ch 5-Ch6 | Quiz Ch5 | | HW Ch6 | |
| 8 | 3/10/2014 | Ch7 | Quiz Ch6 | HW Ch5 due | HW Ch7 | |
| 9 | 3/17/2014 | Ch7 - Ch8 | Quiz Ch7 | HW Ch6 due | HW Ch8 | |
| 10 | 3/24/2014 | Ch8 - Ch9 | | HW Ch7 due | HW Ch9 | |
| 11 | 3/31/2014 | Ch9 | Quiz Ch8 | HW Ch8 due | | |
| 12 | 4/7/2014 | Ch9-Ch10 | Exam Ch5-8 | | HW Ch10 | |
| 13 | 4/14/2014 | Ch10-Ch11 | Quiz Ch9 | HW Ch9 due | HW Ch11 | Spring Break 4/21-26/2014 |
| 14 | 4/28/2014 | Ch11 | Quiz Ch10 | HW Ch10 due | | |
| 15 | 5/5/2014 | Review Final | | HW Ch11 due | | |
| 16 | 5/12/2014 | Final Exam – Comprehensive (Ch1-Ch11) | | W 5/14/2014 | | |