

MATH 3900-50 ELEMENTARY NUMBER THEORY  
FALL 2009

Instructor: COSTEL IONITA  
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Time: Wednesdays at 5:15-7:45 pm  
Place: NIB 135  
Office Hours: 9:00-11:00 MTWThF  
or by appointment  
Text: Elementary Number Theory  
by Kenneth H. Rosen, 5<sup>th</sup> edition

1. OBJECTIVES: All classes in mathematics at Dixie College support the general education goal of the college. Each class will:

- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
- Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
- Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
- Provide students with real-life applications that use a variety of mathematical functions.

This course will partially fulfill requirements for Mathematics Endorsements Level 3 and 4 through the Utah State office of Education.

**DMAIL: Important class and college information will be sent to your Dmail email account. This information includes your DSC bill, financial aid/scholarship notices, notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC. All DSC students are automatically assigned a Dmail email account. If you don't know your user name and password, go to [www.dixie.edu](http://www.dixie.edu) and select "Dmail," for complete instructions. You will be held responsible for information sent to your Dmail email, so please check it often.**

**DISABILITIES:** If you are a student with a medical, psychological or a learning difference and requesting reasonable academic accommodations due to this disability, you must provide an official request of accommodation to your Professor(s) from the Disability Resource Center within the first two weeks of the beginning of classes. Students are to contact the Center on the main campus to follow through with, and receive assistance in the documentation process to determine the appropriate accommodations related to their disability. You may call (435) 652-7516 for an appointment and further information regarding the Americans with Disabilities Act (ADA) of 1990 per Section 504 of the Rehabilitation Act of 1973.

**IMPORTANT DATES** Go to: <http://new.dixie.edu/reg/?page=fall2009>

**ASSIGNMENTS:** Homework assignments are due at the beginning of the class.

**HELP:** I am available for help during office hours, and other times by appointment.

**GRADES:** The homework is worth 80%, the Take Home Midterm is due on October 14 and is worth 10%, and the Final Exam is worth 10%. Your semester grade will be based on the following scale: **A**(90-100%), **B+** (87-89%), **B**(83-86%), **B-**(80-82%), **C+**(75-79%), **C**(70-74%), **C-**(65-69%), **D+**(60-64%), **D**(55-59%), **D-**(50-54%), **F**(0-50%).

Tentative Schedule

DATE	SECTION:ASSIGNMENT
08/25	1.1: 3, 4, 7, 9, 11, 21, 23 1.2: 1, 3, 7, 16, 21
09/02	1.3: 1, 6, 7, 8, 9, 11, 12, 13, 27 1.4: 1, 3, 5, 7, 39
09/09	1.5: 1-9 all, 13, 22, 23, 26, 35 3.1: 1, 3, 5, 7, 15, 21
09/16	3.2: 1, 3, 5, 7, 9, 12 3.3: 1, 3, 5, 9, 17, 21
09/23	3.4: 1, 3, 5, 7 3.5: 1, 3, 5, 7, 30, 31, 32, 36
09/30	3.6: 1, 3, 15, 17 3.7: 1, 3, 16, 17, 18
10/07	4.1: 1, 3, 5, 7, 12, 13, 14, 28 4.2: 1, 3, 5, 9
10/14	4.3: 1, 3, 5, 9, 11, 22, 23 5.1: 1, 2, 3, 4, 22, 23, 24, 25
10/21	5.2: 1, 2, 3 5.3: 1a, 2, 3a 5.5: 1, 3, 5, 7, 11, 13
10/28	6.1: 1, 3, 5, 7, 11, 19, 21 6.2: 1, 15, 16
11/04	6.3: 1, 5, 7, 9, 11, 17
11/11	7.1: 1, 3, 5 7.2: 1, 2, 3, 5a
11/18	7.3: 1, 2, 3, 4 7.4: 1, 3, 10
11/25	NO SCHOOL
12/02	8.1: 1, 2, 3, 4, 7, 8 8.2: 1, 2, 6
12/09	8.3: 1, 3, 5 8.4: 1, 2, 3, 7

**FINAL EXAM: Wednesday, December 16, 5:00-7:00 pm.**