

MATH 3100
EUCLIDIAN AND NON-EUCLIDIAN GEOMETRIES
SPRING 2015

Instructor: COSTEL IONITA
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Time: TuTh at 5:15-6:45 pm
Place: SNOW 150
Office Hours: 10:00-10:50 M-Th, 12:00-12:50 M-Th
or by appointment
Text: Geometry for College Students
by I. Martin Isaacs

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 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=spring2015>

READING: You must read every section before coming to class. You must make an honest effort to understand all the proofs in the textbook. We will clarify all of your questions during lecture. Think of this as you, the student, having a very active role.

ASSIGNMENTS: Homework assignments are due Wednesdays at the beginning of the class. There will be five tests. Also you will prepare a paper on the topic of Non Euclidean geometries which will be due at the end of the semester.

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

GRADES: The homework is worth 20%, the paper on Non-euclidean geometries is worth 20%, and the tests are worth 60%. 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%).

SOFTWARE: We will be using the free software GeoGebra which you can find at <http://www.geogebra.org>.

Tentative Schedule

TUESDAY	ASSIGNMENT	THURSDAY	ASSIGNMENT
01/13	1A: 1B: 1-9	01/15	1C:
01/20	1D: 1-14 1E: 1-4	01/22	1F: 1-14
01/27	1G: 1-5	01/29	1H: 1-11
02/03	Review TEST 1	02/05	2A: 1-5 2B: 1-5
02/10	2C: 1-6 2D: 1-3	02/12	2E: 1-5
02/17	2F: 1 2G:	02/19	2H: 1
02/24	Review TEST 2	02/26	3A: 1-6
03/03	3B: 1 3C: 1-12	03/05	3D: 1-2
03/10	NO SCHOOL SPRING BREAK	03/12	NO SCHOOL SPRING BREAK
03/17	4A: 1-6 4B: 1-3	03/19	4C: 1-5 4D: 1-7
03/24	Review TEST 3	03/26	5A:
03/31	5B: 1-3 5C: 1	04/02	5D: 1
04/07	5E: 5F: 1-2	04/09	Review TEST 4
04/14	6A: 1-6 6B: 1-4	04/16	6C: 1-5
04/21	6D: 1-4 6E: 1-2	04/23	6F: 1-7
04/28	Review	04/30	Review

FINAL EXAM: Tuesday, May 5, 5:00 pm -7:00 pm.