Math 100  |  Liberal Arts Mathematics  |  Fall 2008

Class Info:
Tues/Thurs 11:30 – 12:50 pm
Room 715
Fullerton College CRN 10275
3.0 units

Instructor: Kari Richards-Dinger
Office: 627-01
Office Hours: MW 8-9 am, TR 10-11:30 am
Office Phone: (714) 992-7417
Email: krichardsdinger@fullcoll.edu

Materials: We will be using **Thinking Mathematically** (4th edition) by Blitzer. You will also need a scientific calculator ($10 – 20) for this course. Cellphones are not permitted.

Course Description
**Prerequisite:** A minimum grade of “C” in Math 40 or math skills clearance.
This is a survey course with selected topics from the history and development of mathematics, patterns and inductive reasoning, set theory and deductive reasoning, the real number system, algebra, geometry, probability, statistics, and problem solving. It is designed for students majoring in liberal arts, education or communication.

Note: In a college course, it is expected that you will spend 2 hours studying outside of class for every 1 hour you are in class. This means you should plan to spend **6 hours per week outside of class** doing homework or studying, for a total of **9 hours per week** needed for this class.

Course Objectives: Upon successful completion of this class, the student will be able to:
1) Identify and use set notation. Recognize the terminology and vocabulary associated with set theory. Evaluate set operations. Construct Venn diagrams to show relations between sets. Apply Venn diagrams in the solutions of survey problems.
2) Recognize the usage of the logic connectives. Translate statements into symbolic logic. Identify the classic syllogisms and fallacies. Analyze arguments and assess their validity.
3) Identify the sample space of a given probability model. Compute probabilities of both simple and composite events. Calculate conditional probabilities.
4) Interpret statistical graphs and charts. Differentiate between types of averages. Organize, tabulate, and interpret the descriptive statistics of data sets, averages, and dispersions. Construct regions under a normal curve and calculate the percentages represented by these regions.
5) Analyze numerical information in application problems and decide what algebraic models could be used to fit the data. Construct equations from the data of apply formulas to the data. Use linear, quadratic, exponential, or logarithmic models to solve application problems.
6) Recognize geometric figures. Apply basic geometric formulas in the solution of problems. Solve right triangle problems.
Course Requirements
This portion of the syllabus was collaborative. We decided together how to fill in the blanks.

Exams: There will be 3 exams given on the dates indicated in the syllabus. Each one is worth 100 points.

Final Exam: The final will be comprehensive and worth 150 points.

Quizzes: There will be 12 quizzes given on the dates indicated in the syllabus. Your best 10 will count for a total of 75 points.

Homework: Homework problems are assigned for each section we cover and due at the beginning of the next class period. Show all your work neatly on notebook paper. The assigned problems are for your benefit; if you do not do the homework on a regular basis, you will not be successful on the quizzes and tests. Unfortunately, we will not generally have time in class to answer homework questions. You need to get your homework questions answered before class in the Tutoring Center or during my office hours. There will be ~25 homeworks collected and I will drop ~5 low scores for each student. Homework will be worth a total of 80 points.

Project: There will be 2 projects (1 large, 1 small) assigned during the semester. I will give details in a hand-out closer to the time they are due. They will be worth 75 points total (50 for the large and 25 for the small).

Classwork/Reading Worksheets/Sample Tests: There will be occasional assignments of various sorts worth a total of 75 points. If the total doesn’t add up to 75 at the end of the semester, it will be scaled accordingly.

Grading
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<tr>
<td>Exams (3 @ 100 pts)</td>
<td>300 points</td>
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<tr>
<td>Final Exam</td>
<td>150 points</td>
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<td>Quizzes (10 @ 7.5 pts)</td>
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<tr>
<td>Homework</td>
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<td>Projects</td>
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<td>Other</td>
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<td>Total</td>
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Scale: A 90-100%  B 80-89%  C 70-79%  D 60-69%  F 0-59%

Make-Up Policy
Homework is due at the beginning of the class period following the lecture covering that material or as otherwise noted. No late homeworks will be accepted for any reason. Instead, I will drop several low scores for each student.

Quizzes: If for any reason you are not in class at the time a quiz is given or arrive after it has begun, you will not get credit for the quiz and may not make it up. Since there are no make-ups allowed, 2 low quiz scores will be dropped to bring the total to 10.

Exams: If you know in advance that you will be absent on the day of an exam, you may make arrangements with me to take the exam before the scheduled date and time.
Everyone may make up or retake exactly one of the regular exams (not the final) on the date given in the syllabus for make-up exams. If for any reason you miss the class meeting in which an exam is given, you must make it up on that date. If you take all the exams as scheduled, you may retake one exam of your choice. You will receive the higher of the two scores.

**Final**: No make-ups for any reason.

**Resources for Extra Help**
1) My office hours. I’m also available to answer questions by email. See p.1 for my office hours and email address.
2) Tutoring center. LRC Room 806. Hours: Mon-Thurs 9am-7pm, Fri-Sat 10am-2pm. The tutoring center offers free one-on-one tutoring on a walk-in basis. Note: To use the tutoring center, you must have a signed referral form (back page of this packet). Fill in your name and student ID number and take it to the Tutoring Center the first time you go.
3) Form a study group with your classmates. Studying together can be very effective if you’re able to stay on task. Please be sure to get contact information (name, phone, email) from a few of your fellow students before you leave today, both for study purposes and in case you must be absent, to get notes on what you missed.

**Distractions**: Out of respect for your fellow students, please try to minimize distractions to the class. Make sure that your cell phones are turned off before you enter this class. A student arriving late or leaving early draws the attention of the whole class. Please arrive on time and stay until the end. Talking and whispering during class distracts those around you. If you have a question or need clarification, please raise your hand and ask the instructor. Save other conversation for after class. Students are referred to the Fullerton College catalog for other information such as Grievance/Grade Appeal Procedure and Standards of Student Conduct and Discipline Policy.

**Academic Integrity**: As in all healthy relationships, honesty and respect form the foundation of classroom interaction. I hold myself to this standard as well as all students. Academic dishonesty includes, but is not limited to, copying from another student’s homework, quiz, or exam, allowing another student to copy your work, or using unauthorized notes during a quiz or exam. Academic dishonesty has no place here; refer to the Fullerton College Catalog for the complete policy. At the very least, cheating on an exam will result in a zero for that exam and no make-up allowed.

**Attendance Policy**: Regular and prompt attendance is expected of every student. If you miss more than the equivalent of 3 class periods, you may be dropped from the course. Arriving late or leaving early counts as half an absence. If you do miss a class, I expect you to review that day’s material in the textbook and do the associated homework before you come to the next class so you have the necessary background to learn the new material.

If the instructor does not arrive at the scheduled start time for class, students are to remain in class for 15 minutes (unless otherwise notified by a staff member from the math department). If students do not receive notification to wait for their instructor to arrive, after fifteen minutes the students may leave with no penalty for absence.
**Dropping the Class:** While an instructor may withdraw a student who has poor attendance, it is the student’s responsibility to withdraw if the student wishes to drop. If your name appears on the roster at the end of the semester, I must give you a grade. Failure to withdraw yourself from the course may result in receiving a failing grade. The deadline to drop without a “W” on your transcript is Sat. Sept. 6. The deadline to drop with a “W” on your transcript is Fri. Nov. 21.

**Special Needs:** Fullerton College is committed to providing reasonable accommodations for students with disabilities upon request of the student (in a timely manner) and upon verification of disability. Disability Support Services functions as a resource for students and faculty in the determination and provisions of accommodation.

**Emergency Response Message:** Please take note of the safety features in and close to your classroom, as well as study the posted evacuation route. The most direct route of egress may not be the safest because of the existence of roofing tiles or other potentially hazardous conditions. Similarly, running out of the building can also be dangerous during severe earthquakes. During strong quakes, the recommended response is to duck, cover, and hold until the shaking stops. Follow the guidance of your instructor. You are asked to go to the designated assembly area. Your cooperation during emergencies can minimize the possibility of injury to yourself and others.