# De Anza College Math 22.63 Spring '16

### **Instructor Information**

Name: Salvador Guerrero E-mail: guerrerosalvador@fhda.edu

Office Hours: Tuesday/Thursday 12:50-1:20 and Monday/Wednesday 6:20-6:50 in E37

### **Course Information**

Title: Discrete Mathematics

Location and Time: E36 on Monday/Wednesday 6:30-8:45pm

Website: TBA (I will send you an invitation via email)

#### Materials:

Text (required): Discrete Mathematics: An Introduction to Mathematical Reasoning, 1<sup>st</sup> edition by Epp (this version is also known as the "brief edition"). I will assign readings from the book, though you are welcome to read from any source you prefer including other textbooks, journals, or the internet (e.g. Wikipedia).

Technology (optional): Graphing calculator (TI-84 recommended) or computer based graphing utility. Note: Technology will not be allowed on any quizzes or exams, it is only recommended for further understanding while completing homework and investigating course material.

#### **Requisites**:

Prerequisite: Mathematics 43 (with a grade of C or better), or equivalent and Computer Information Systems 22A or Computer Information Systems 35A (with a grade of C or better), or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

**Description:** Elements of discrete mathematics with applications to computer science. Topics include methods of proof, mathematical induction, logic, sets, relations, graphs, combinatorics, and Boolean algebra.

#### **Student Learning Outcomes:**

- 1. Critique a mathematical statement for its truth value, defend choice by formulating a mathematical proof or constructing a counterexample.
- 2. Analyze and apply patterns of discrete mathematical structures to demonstrate mathematical thinking.

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Evaluation: Your course grade will be determined as follows:

Mathematical Essay	10%
Classwork/Participation	10%
Homework	10%
Quizzes	10%
2 Midterm Exams	20% each
Final exam	20%

Mathematical Essay: you will be asked to write an essay, details will be on the course website.

**Classwork/Participation:** Classwork and in class discussion will be based on assigned reading. In order to participate effectively you will need to complete all assigned reading before class.

**Homework:** Homework will be posted on the website. It will be collected occasionally and will be graded for completion, not necessarily correctness. In order to receive full credit your work should be neat and legible on clean paper with no frayed edges.

**Quizzes:** There will be occasional quizzes based on the homework, classwork, and examples discussed during lecture. There are no make-up quizzes but the lowest score will be dropped.

**Exams:** There will be two midterm exams given in class. There are no make-up exams.

**(Optional) Project:** You have the option of completing a project (which we will choose together) in order to receive some extra credit.

**Final Exam:** A mandatory two hour comprehensive final exam will be administered on Wednesday June 22, 2016 at 6:15-8:15pm. The final must be taken at the scheduled time. Any student not taking the final will receive a grade of F.

#### Letter grades will be assigned as follows:

If your overall score is at least \_\_\_\_, then your letter grade is \_\_\_\_

98%: A+ 92%: A 90%: A- 88%: B+ 82%: B

80%: B- 78%: C+ 70%: C 60%: D

A student earning less than 60% will receive a grade of F.

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### **Policies and Resources**

**Academic Integrity:** Cheating, plagiarism and other forms of academic dishonesty will not be tolerated. Students are expected to be honest and ethical at all times in their pursuit of academic goals. A Student caught cheating, plagiarizing, or otherwise violating the rules for an assignment will receive a grade of 0 on the assignment in question; repeat offenders will receive a grade of F in the course. In either case, a student may be referred to the Dean for academic discipline. No grade of 0 due to academic dishonesty will be dropped or replaced.

**Classroom Courtesy:** All students are entitled to learn in an environment free from any distraction or disruptions. Your actions towards the instructor and towards your fellow classmates should be respectful at all times. Students who are disrespectful or disruptive can and will be asked to leave. If a student does not leave after being asked, they will be dropped from the course and referred to the Dean. I expect you to arrive to class on time and stay until class is dismissed. Cell phones and other electronic devices must be turned off while class is in session. Audio/Video recordings of lecture are prohibited.

**Attendance:** Attendance is required and you are responsible for all material covered in class. If you miss a class, contact a fellow student to find out what was covered. Also:

- Students who remain enrolled in a class beyond the published withdrawal deadline, as stated in the class schedule, will receive an evaluative letter grade in this class.
- It is the student's responsibility to add, drop or withdraw from classes before the deadlines stated in the college catalog. You should contact me before withdrawing.
- It is at my discretion to withdraw a student after the add/drop deadline due to excessive absences.

Accommodation of Disability: Students that have any disability, either permanent or temporary, which might affect their ability to perform in this class should contact me immediately. For information or questions about eligibility, support services or accommodations to disability (physical or learning disability) see the contacts below:

- Disability Support Services (DSS): Student Services Building (408)864-8753

- Educational Diagnostic Center (EDC): Learning Center West 110; (408)864-8839. Special Education Division: (408)864-8407; <u>http://www.deanza.edu/specialed</u>

**English as a Second Language:** ESL students may use a translator and/or dictionary (print only, to be approved by instructor) during exams and quizzes. Please visit the college's listening and speaking center for further resources <a href="http://www.deanza.edu/studentsuccess/lsc/">http://www.deanza.edu/studentsuccess/lsc/</a>