

# De Anza College – Summer 2016

## MATH 22–28 Discrete Mathematics

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Instructor: Dr. Paul Du  
E-mail: dupaul@fhda.edu

Class: MTWTh 3:00 PM – 5:15 PM, Room S45  
Office Hours: By appointment

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### Prerequisite

Math 43 (with a grade of C or better), or equivalent.

### Textbook

*Discrete Mathematics: An introduction to Mathematical Reasoning*, Brief Edition, Susanna Epp.

### Calculator Policy

A TI-83/TI-84 graphing calculator is recommended. Calculators with computer algebra systems (CAS) (e.g. TI-89/TI-92/TI-Nspire) will not be allowed on exams or quizzes. Cell phone calculators will not be allowed on exams or quizzes.

### Course 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

Upon successful completion of this course, the student will be able to

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.

### Homework and Reading

Homework is essential for success in this course. Homework will be assigned for each covered section of the textbook. Reading the textbook is considered part of the homework. Students are responsible for solving all the problems assigned, checking the answers against those in the back of the textbook. Homework will not be collected, but it will be assessed through regular quizzes.

### Quizzes and Exams

There will be three (3) quizzes given during the summer session. Quiz problems will be similar to or taken directly from the homework. The lowest quiz score will be dropped. There will be NO make-up quizzes.

There will be two (2) midterm exams given during the summer session. You may bring one single-sided 8.5" × 11" sheet of handwritten notes to each midterm exam. The lowest midterm exam score will be replaced

by the final exam score, if the latter is higher. A picture ID is required to take each midterm exam. There will be NO make-up midterm exams.

A mandatory comprehensive final exam will be given at the end of the summer session. Students may bring one double-sided 8.5" × 11" sheet of handwritten notes to the final exam. A picture ID is required to take each final exam. Any student who misses the final exam will receive a grade of F for the course.

## **Grading Policy**

The course grade will be determined by the following criteria:

Quizzes .....	15%	A =	90% – 100%	D =	60% – 69%
Midterm Exams .....	50%	B =	80% – 89%	F =	0% – 59%
Final Exam .....	35%	C =	70% – 79%		

## **Attendance Policy**

Students are expected to attend all classes, to be on time and to stay for the entire class period. Any student who misses more than three (3) classes may be dropped by the instructor. If a student decides not to continue with the course, it is the student's responsibility to officially drop the course. Failure to do so may result in a grade of F for the course.

## **Academic Honesty**

Students are responsible for keeping themselves informed of the De Anza College Policy on Academic Integrity ([www.deanza.edu/studenthandbook/academic-integrity.html](http://www.deanza.edu/studenthandbook/academic-integrity.html)). Cheating will not be tolerated and can result in receiving a zero on the exam or an F for the course up to being reported to the Dean of Students Office for possible disciplinary action.

## **Classroom Behavior**

Students are responsible for keeping themselves informed of the De Anza College Student Code of Conduct ([www.deanza.edu/dsps/dish/appendix/conducts.html](http://www.deanza.edu/dsps/dish/appendix/conducts.html)). Disruptive classroom behavior, including (but not limited to) talking with other classmates during lecture, making distracting noises, and using cell phones or other electronic devices without prior approval, is not acceptable. Persistent disruption can result in being asked to leave the class and/or being referred to the Dean of Students Office.

## **Accommodations for Students with Disabilities**

Students with disabilities who believe that they may need accommodations in this course are encouraged to contact Disability Support Services (408-864-8753) or Educational Diagnostic Center (408-864-8839) as soon as possible to ensure that such accommodations are arranged in a timely fashion.

## **Additional Help**

Math and Science Tutorial Center (S43) provides free individual and group tutoring. A useful online math learning resource is Khan Academy ([www.khanacademy.org/math](http://www.khanacademy.org/math)).