De Anza College – Summer 2018
MATH 22 Discrete Mathematics
CRN 12374 Section 61

Instructor: Dr. Paul Du
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Class: MTWTh 5:30 pm–7:45 pm, Room MLC108
Office Hours: By appointment

Prerequisite

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

Textbook

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

Calculator

A scientific or graphing calculator is optional. 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.

Homework and Quizzes

Homework will be assigned for each lesson and will be due on each exam day. Students are responsible for solving all the problems assigned, showing all work in a neat and orderly manner. Simply giving answers without showing work will receive no credit. Homework will be graded on neatness, completeness, and correctness. Late homework will be accepted but will receive a maximum of half credit.

Homework Format Requirements: The homework must be completed on standard letter size paper, stapled together, and in pencil or black/blue pen. The first page must be a cover page that contains the student name and a homework completion checklist. Each problem must be clearly numbered and each solution must begin with the original problem statement (except for a word problem). Any homework that does not follow the assignment requirement will not be collected or will cause significant points to be deducted.

There will be three (3) quizzes given throughout 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 under any circumstances**.

Exams

There will be two (2) midterm exams given during the summer session. Students may bring one 3″ x 5″ index card (two-sides) 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. There will be **no make-up midterm exams under any circumstances**.

A mandatory comprehensive final exam will be given at the end of the summer session. Students may bring one 8.5″ x 11″ sheet (two sides) of handwritten notes to the final exam. A picture ID is required to take the 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:

Classwork/Participation 5%	A	=	90% – 100%
Homework 10%	B	=	80% – 89%
Quizzes 10%	C	=	70% – 79%
Midterm Exams 45%	D	=	60% – 69%
Final Exam 30%	F	=	0% – 59%

Note: The instructor reserves the right to assign plus/minus grades for borderline cases based upon class participation and attitude.

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 one (1) class during the first two weeks or more than three (3) classes before the withdraw deadline 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). 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.

Student Conduct and 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). Disruptive classroom behavior is unacceptable. Examples of such behavior include, but not limited to, talking during lecture and student presentation, making distracting noises, or arriving to class late or leaving early. 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

If you find yourself falling behind or find any topics difficult to understand, seek help immediately! Math and Science Tutorial Center (S43) provides free group and individual tutoring.

Student Learning Outcome(s):

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