

INSTRUCTOR

Dr. Jarred Collins

WEBSITE

www.collinscalculusclass.org

OFFICE

Virtual

OFFICE HOURS

by appointment

CONTACT

The REMIND APP is the best way to contact me.

E-mail is collinscalculusclass@gmail.com

LECTURE

YouTube Channel

LECTURE HOURS PER WEEK

3

PREREQUISITES

Math 151 with a grade of "C" or better, or equivalent.

TEXT

There is no text, notes are posted on the website.

CONTENT

Logic, set theory, functions, number theory, counting, graph theory and recursion.

DESCRIPTION

This course is an introduction to the theory of discrete mathematics and introduces elementary concepts in logic, set theory, number theory, and combinatorics. The topics covered include propositional and predicate logic, methods of proof, set theory, Boolean algebra, number theory, equivalence and order relations, counting techniques, and recursion. This forms a basis for upper division courses in mathematics and computer science, and it is intended for the transfer student planning to major in these disciplines.

COURSE LEARNING OUTCOMES

Students should be able to apply appropriate math definitions, properties and appropriate techniques in a variety of problem solving situations, as well as recognize an appropriate solution as opposed to an unreasonable or extraneous one.

Students will be able to demonstrate knowledge of the interrelatedness of the concepts within a particular course and/or among different courses.

Students will be able to demonstrate an ability to communicate mathematical reasoning, in the context of solving a problem, with clarity and detail.

Students will be able to choose and apply appropriate mathematical tools and technology to various problems.

QUESTIONS

Problems with residency or registration should be resolved with Karina Sandoval (ksandoval@sdccd.edu) Student Services, I-400, 7250 Mesa College Drive, San Diego, 92111.

CLASS POLICY

Access and familiarity with my website will be crucial to your success in this course. On the left side of the homepage is a list of classes. You will visit the Math 245 tab which will direct you to the Math 245 homepage. All of the necessary material will be provided here to include the syllabus, worksheets, zoom link, YouTube link, important dates and HW problems. The worksheets are NOT optional and are an integral part of your success in the class. The worksheet problems with the asterik are HW problems that will be handed in for a grade.

EVALUATION

I will grade the HW, they are the worksheet problems with an asterik, and collectively the HW is worth 40% of your grade. The weekly HW assignments will be posted on the website and are due by Sunday at midnight, no exceptions. Failure to email me the HW without prior discussion will result in a 0 for that assignment. There will be 3 exams, worth 20% each, with exam 1 covering logic, set theory, functions and number theory; exam 2 covering counting and graph theory; and exam 3 covering recursion and some review. Exams will be arranged via Remind and taken through email. If you do not schedule and take your exam by Sunday of the appropriate week without prior discussion with me, you will receive a 0 on that exam. No exceptions.

GRADING WILL BE BASED ON THE FOLLOWING PERCENTAGES:

HW	40%
3 EXAMS	60%

LETTER GRADES WILL BE ASSIGNED AS FOLLOWS:

90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

IMPORTANT DATES

To withdraw without a W, the deadline is Feb. 23rd. The last day to withdraw from the course is April 13th.

ATTENDANCE

You are responsible for the material covered each week. Exam make-ups will only be given in extreme emergencies and only if you contact me BEFORE the exam begins. It is the student's responsibility to drop all classes in which he/she is no longer attending. It is at my discretion to withdraw a student after the add/drop deadline due to excessive absences. Students who remain enrolled beyond the withdrawal deadline will receive an evaluative letter grade in this class. This is an SDCCD class and it is critical you read and understand the following references. They can be found in the college catalog online or at the Office of Student Affairs (Room H-500).

Policy 3100: Student Rights, Responsibilities, and Administrative Due Process

Procedures 3100.1: Student Grievance Procedures

Procedures 3100.2: Student Disciplinary Procedures

Procedures 3100.3: Honest Academic Conduct Procedures

“Stay on Track to Keep Your Financial Aid! To continue to receive financial aid, you must meet the Financial Aid Satisfactory Academic Progress (SAP) requirement. Meeting SAP means that you maintain a 2.0 cumulative GPA, have successfully completed 67 percent of your coursework attempted within your educational plan, and will graduate on time. Failure to meet these requirements could result in the loss of your financial aid. For more information, including the appeals process, please visit <https://www.sdccd.edu/students/financial-aid-scholarship/index.aspx>

. If you have any questions or need assistance, please get in touch with the Financial Aid Office at cityaid@sdccd.edu / mesaaaid@sdccd.edu / miraaid@sdccd.edu.”

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 as soon as possible so that I can adapt methods, materials or tests as needed to provide for equitable participation.