

INSTRUCTOR

Dr. Jarred Collins

WEBSITE

www.collinscalculusclass.com

OFFICE

Bungalow 34 SRHS

OFFICE HOURS

Monday 7 AM -10 AM, 11 AM -12 PM

Tuesday 8:30 AM - 9:30 AM, 11 AM - 12 PM

Thursday 9 AM - 12 PM

CONTACT

Cell Phone (858)373-8891

E-mail jcollins@sdccd.edu

LECTURE

Bungalow 34 SRHS Period 1 on Tuesday and Wednesday

LECTURE HOURS PER WEEK

3

PREREQUISITES

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

TEXT

There is no text, you will receive various handouts and perhaps some web based assignments.

CONTENT

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

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.

STUDENT LEARNING OUTCOMES

Student Learning Outcomes can be found at:

<http://www.sdmesa.net/acp/math245.html>

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 Alma Godinez at Mesa College: (619)388-2683, Room MV-12, 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, important dates and HW problems. I will be providing the daily schedule and you will then be required to print and bring in the appropriate worksheets for the sections covered that day. The lecture will consist of you arriving **ON TIME**, a question and answer period pertaining to any HW or related questions, presentation of that days material and finally completion of the daily worksheet (as group work) that you will print and bring to class. The worksheets are **NOT** optional and are an integral part of your success in the class. I expect you to show up with them as well as complete them **IN CLASS**. Worksheets are in class work and the HW problems are for home. Under no circumstances are you to text during my class. If I catch you, and I will, you will be asked to leave and I will inform the appropriate school officer of your behavior.

EVALUATION

Each class you will be given basic definitions, theorems and some examples. You will then be provided with a worksheet that you will begin in class, in your group, and finish as homework. The following class I will grade the HW, individually, as a 0,1 or 2 depending on the amount completed. You **WILL** be encouraged to work together, however you must write up **YOUR OWN WORK**. Any evidence of plagiarism will result in a 0 for that assignment. The next class will begin with one group explaining and presenting the answers to selected worksheet problems. We will rotate throughout the groups as the semester continues. These presentations will be graded and are worth 20% of your grade. 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 block design.

GRADING WILL BE BASED ON THE FOLLOWING PERCENTAGES:

HW	20%
3 EXAMS	60%
PRESENTATIONS	20%

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. 22rd. The last day to withdraw from the course is April 17th.

ATTENDANCE

The final grade in this class will be affected by active participation, including attendance as follows. Attendance is required and you are responsible for all material covered in class. You will be allowed two unexcused absences and/or lates for the semester. Each unexcused absence and/or late after that will result in a one half letter grade reduction in your FINAL AVERAGE. There are NO make-ups on any material unless you have spoken to me previously with regards to an excused absence. Exam make-ups will only be given in extreme emergencies and only if you contact me BEFORE the exam begins. An excused absence is at my discretion and you MUST contact me before or as it happens. 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

ACCOMODATION 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.