De Anza College Math 44.27 Winter '18

Instructor Information

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

Office Hours: Tuesday/Thursday 3:05 – 3:55 pm in E37; 8:45 – 9:10 pm in S16

Course Information

Title: Introduction to Contemporary Mathematics

Location and Time: S16 on Tuesday/Thursday 4:00 – 6:15 pm

Website: we will be using Canvas (deanza.instructure.com)

Materials:

Text (required): The Heart of Mathematics: An Invitation to Effective Thinking by Burger and Starbird

Requisites:

Prerequisite: Mathematics 114 or equivalent (with a grade of C or better); or a satisfactory score on the College Level Math Placement Test within the last calendar year.

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

Hours: Five hours lecture (60 hours total per quarter).
Note: it is advised that you set aside two hours of study time per hour spent in class.

Description: A survey of selected topics from contemporary mathematics, including problem solving techniques and connections between mathematics and culture. Includes a selection of introductory topics from symmetry; graph theory; chaos and fractals; topology; number theory; geometry; combinatorics and counting; the mathematics of social choice; data analysis, probability and statistics; consumer mathematics and personal financial management.

Evaluation: Your course grade will be determined as follows:

Mathematical Autobiography	5%
Essay	5%
Journal	5%
Classwork	10%
Group Project	15%
Homework	15%

Midterm exam	15%
Take home exam	15%
Final exam	15%

Mathematical Autobiography: a detailed description will be provided on the course website.

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

Journal: you will asked to keep a journal of each class meeting, details will be on the course website.

Group Project: you will be asked to work on a project in a group and to give a short presentation during the last week of class, details will be provided on the course website.

Classwork: Classwork may consist of quizzes, writing assignments, or group work. You cannot make up any classwork missed, but your lowest two scores will be dropped.

Homework: Homework will be assigned at the end of each meeting and will be due the following Tuesday. Some homework problems will be graded for correctness and the rest for completion. In order to receive full credit, work you turn in should be neat and legible on clean paper – online submission preferred but paper submissions acceptable as long as no frayed edges.

Exams: There will be 2 midterm exams, one a take home exam. There will be no make-up exams given under any circumstances.

Final Exam: A mandatory two hour comprehensive final exam will be administered on Thursday Mar 29, 2018 from 4:00 – 6:00 pm. 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.

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.

Tutoring/Additional Help: Please consider the following (free) resources for additional help:

- In Person Tutoring: https://www.deanza.edu/studentsuccess/mstrc
- On-line Tutoring: http://deanza.edu/studentsuccess/onlinetutoring
- The internet: it is the future (2016), a time when information is literally at our fingertips.

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): http://www.deanza.edu/dss
- Educational Diagnostic Center (EDC): http://www.deanza.edu/edc
- HOPE De Anza: http://www.deanza.edu/hope

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 (LSC) for additional resources http://www.deanza.edu/studentsuccess/lsc/

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Student Learning Outcome(s):

*Analyze contemporary mathematical problems, apply problem solving techniques using a variety of methods, and communicate the results mathematically through a variety of forms.

*Demonstrate and correctly apply basic mathematical techniques in at least five of the following ten areas: symmetry, graph theory, fractals and chaos theory, topology, number theory, geometry, combinatorics, methods of social choice, probability and statistics, economics and personal finance.

*Examine and evaluate myths and realities about the contemporary discipline of mathematics and its practitioners.