SAN JOSE STATE UNIVERSITY
MATH 138 - COMPLEX VARIABLES
Spring 2015
SECTION 1 (Class Number 22020)
(MW 12:00 - 1:15 p.m., MH 235)

Instructor: Dr. S. Obaid
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Phone: 924 - 5140
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URL: www.math.sjsu.edu/~sobaid/

Office Hours:
Monday 3:00 - 4:00 p.m.
Tuesday 9:00 - 10:00 a.m.
Tuesday 2:00 - 3:00 p.m.
Wednesday 3:00 - 4:00 p.m.

Prerequisite: Math 32 with a grade of C- or better

Text:
Complex Variables and Applications
by J. Brown and R. Churchill - McGraw-Hill
(9th Edition - You can use any edition 4th- 8th)
There is in the bookstore a 9th edition paper back version
which includes only the required chapters at a reduced
price

Homework:
I will e-mail the list for the 9th edition.
The lists for the 8th and 7th editions are on my web page.

Topics:
Chapters 1 - 6 (some sections are optional)
Chapter 7 (sections 85, 86 and 92).
Some applications in physics and engineering will be
discussed.

Course Objectives: Studying complex numbers, mappings, functions of z,
harmonic functions and their use in applied math,
differentiation and integration of functions of z,
series in z, Cauchy residue theory and its impact on
applied mathematics. Applications in engineering.

Grading Policy:
Quizzes 16% (3 quizzes will be announced)
Exam I 28% (3/09, Monday)
Exam II 28% (4/29, Wednesday)
Final Exam 28% [5/21, Thursday, 9:45-12:00 noon
in MH 235.] The final exam is comprehensive.

Remarks:
No make-up exams or quizzes will be given.
In the case of exams reasons to exceptions must
be convincing to me officially documented, and
presented to me before the missed exam.

If you add during the semester it is your
responsibility to find all the information
you missed.
Cell Phone: Keep it away from your desk during the quizzes and exams.

A pictured ID is required for all exams.

Last Day to drop without documentation: Tuesday, February 3, 2015.
After 2/03/2015 "a student may withdraw from class only for 'serious and compelling reasons' which shall be defined as circumstances and genuine emergencies beyond the student's control. These circumstances must be documented... Failure, or anticipated failure, or non-attendance is not a valid reason for withdrawing from a course."

Grade Scale: The following scale is tentative

A+ will be given to outstanding students.
90 or higher A
87 - 89 A-
83 - 86 B+
79 - 82 B
76 - 78 B-
71 - 75 C+
65 - 70 C
60 - 64 C-
55 - 59 D+
52 - 54 D
50 - 51 D-
Below 50 F

Integrity Policy: It is a requirement that you read the university policy http://www2.sjsu.edu/senate/S04-12.htm

If you are a disabled student you are encouraged to discuss with me during my office hours your needs as soon as you can.

It is useful to look at the math department web page: www.sjsu.edu/math

References:
1. Fundamentals of Complex Analysis by E. Saff & A. Snider
2. Elements of Complex Variables by L. Pennisi
3. Schaum's outline Series - Complex Variables by M. Spiegel
4. Applied Complex Analysis by N. Asmar
5. Basic Complex Analysis by J. Marsden and M. Hoffman
6. Complex Analysis for mathematics and Engineering by Mathews and Howell
7. Complex Variables by N. Levinson and R. Redheffer
8. Problems in Complex Variable Theory, by J. G. Krzyz
   (MOSTLY ADVANCED PROBLEMS)
"SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of forty-five hours for each unit of credit (normally three hours per unit per week), including preparing for class, participating in course activities, completing assignments, and so on. More details about student workload can be found in University Policy S12-3 at http://www.sjsu.edu/senate/docs/S12-3.pdf."