

Instructor: Katherine Varela

Email: katherine.varela@csulb.edu

Class meetings: TTh 8:00 - 8:50 AM

Class location: ECS-419

Lab meetings: TTh 9:00 - 10:15 AM

Lab location: ECS-413

Office hours: TTh 2:00 - 3:20 PM

OH location: ECS-530

Prerequisite: CECS 174 and MATH 113 with a grade of "C" or better.

Course Content:

“An introduction to discrete mathematics with applications towards computing. Topics include sets, functions, logic, relations, graphs, trees, recursion, combinatorics, and mathematical reasoning.” Letter grade only (A-F). (Lecture 2 hours, laboratory/problem session 3 hours)

Textbook:

Title: Discrete Mathematics

Edition: 8th

Publisher: McGraw-Hill

Authors: Rosen

ISBN: 9781259731280

Method of Evaluation:

Your final score will consist of the following weights:

Quizzes	35%	Lab Assignments	20%
Exams (2)	30%	Final Exam	15%

Your course grade will be determined according to where your percentage falls rounded to two decimal places on the following scale,

$90\% \leq A$
$80\% \leq B < 90\%$
$70\% \leq C < 80\%$
$60\% \leq D < 70\%$
$F < 60\%$

Attendance Policy:

If you miss a lecture during the first two weeks of the session period, you will be dropped from the class to enroll students wishing to add the course.

Homework and Assessment Policies:

Quizzes:

- Weekly quizzes will be administered on Thursdays beginning Week 2, except on exam weeks.
- **There are no make-ups allowed for homework nor quizzes.** NO EXCEPTION.
- Lowest two (2) quiz scores will be dropped

Homework

There is no due written homework but I HIGHLY suggest you complete problems relevant to the topics discussed in lecture prior to Thursdays (quiz days).

Exams

Make-up exams will only be offered in the case when you have an excused absence. An excused absence is defined by the university to be one of the following:

1. Illness or injury to the student
2. Death, injury, or serious illness of an immediate family member or the like
3. Religious reasons (California Education Code section 89320)
4. Jury duty or government obligation
5. University sanctioned or approved activities (examples include: artistic performances, forensics presentations, participation in research conferences, intercollegiate athletic activities, student government, required class field trips, etc.)

If you have an excused absence, you must present documentation of your situation when requesting a make-up exam. If I approve your request, then you must make-up the exam on the same week (Mon. – Thur.) that the exam is scheduled.

Tentative Exam Dates:

<i>Exam I:</i>	Thursday, February 27, 2020	(Week 6)
<i>Exam II:</i>	Thursday, April 15, 2020	(Week 13)

Final Exam: Thursday, May 14, 2020, 8:00 – 10:00 AM

Expectations

Your work is representative of YOU, hence take pride in your work and make sure the quality, including presentation, is impeccable. I expect the following from you in every assignment/exam:

1. Presentable and appealing – make your work readable and professional.
2. Logical progression - Your solutions must be written logically and in order. This means, every line on your paper/code should show the step that you took to move on from the line above it. If your solutions look like a spider web of thoughts instead of a storyline, I will not grade it.
3. Boxed answers – For written work, distinguish your final answer from your work by boxing it. I will only assign points to boxed answers.

DSP&S Statement:

[DISABLED STUDENT SERVICES](#) is a student support program within the Student Services Division. Our mission is to assist students with disabilities as they secure their university degrees at California State University, Long Beach. We provide services to over 13,000 students each semester. Over 3,000 students with disabilities have graduated from CSU Long Beach with support from our program. The Disabled Student Services office is located on the 2nd floor in the Administration Building, room SS/AD 270.

If a student has a verified disability, it is his/her responsibility to notify me in advance for any needs to be accommodated.

Academic Honesty Policy:

You are encouraged to discuss ideas and troubleshooting with your peers, however, cheating and plagiarism will not be tolerated in this course. Any individual caught cheating on quizzes, homework, lab projects, or the final exam will be punished to the full extent allowed under University regulations. Plagiarism on papers or assignments is not acceptable and work that is plagiarized will not receive credit. Plagiarism is considered cheating. Note: Any time another person's work is used without giving them proper credit, it is considered plagiarism and cheating. At a minimum, any student caught cheating will receive no credit for the work concerned, and will receive a reduction of one letter grade from their final course grade. The official CSULB Policy on Cheating and Plagiarism can be found here:
http://web.csulb.edu/divisions/aa/catalog/current/academic_information/cheating_plagiarism.html

Other:**Email**

When writing an email, please include the following in the subject line:

CECS 228: "Your email subject"

Office Hours and Your Success

Many of the topics covered in this course are difficult and require a level of mathematical thinking you likely have never practiced before. For this reason, I want to encourage everyone to attend office hours to discuss the material further, especially if at any point you feel that you are falling behind or are struggling. It is always my pleasure to help those who are making a sincere effort to learn, but ultimately it is your responsibility to take the reins of your education. Don't wait until it is too late!

If you want **to succeed in my class, you must understand the material!**

This requires that you



- attend lecture
- complete the lab assignments
- dedicate plenty of time to studying
- try the relevant problems
- seek outside support (form a study group, get tutoring, etc.)
- seek help from me by asking questions in office hours

Safe Living/Sustenance Aid:

Any student who is facing academic or personal challenges due to difficulty in affording groceries/food and/or lacking a safe and stable living environment is urged to contact the CSULB Student Emergency Intervention & Wellness Program. The website outlining the resources available is www.csulb.edu/basicneeds. Students can also e-mail supportingstudents@csulb.edu or call [562/985.2038](tel:5629852038). If comfortable, students may reach out to the professor as they may be able to identify additional resources.

**CECS 228 Tentative Schedule
Spring 2020**

Week	Tuesday	Thursday
1	Intro	<i>Logic Part I</i>
2	<i>Logic Part II & III</i>	
3	<i>Logic Part III & IV</i>	
4	<i>Proofs: Part I & II</i>	
5	<i>Proofs: Part II & III</i>	
6	<i>Proofs: Part III & IV</i>	
7	<i>REVIEW</i>	Exam I <i>DM: 1.1-1.5, 2.1, 2.2, 8.5, 2.3</i>
8	<i>Basic Structures: Sets Part I & II</i>	
9	<i>Basic Structures: Relations & Functions Part I & II</i>	
10	<i>Basic Structures: Sequences, Summations & RRs Part I & II</i>	

11	 SPRING BREAK 	
12	<i>Counting Part I & II</i>	
13	<i>REVIEW</i>	Exam II (DM: 2.3, 2.4 3.3, 8.1, 8.3, 1.6 -1.8)
14	<i>Relations Part I & II</i>	
15	<i>Graphs Part I & II</i>	
16	Review	Review

This syllabus and tentative schedule is subject to change at the instructor's discretion.