

Syllabus
CSC 151: Discrete Mathematics for CSC
Spring 2022 (Block 8)

Instructor: Ajit Chavan (achavan@cornellcollege.edu, West Hall 210)

Class Sessions:

Monday – Friday: 9:30 am – 11:00 am (West Hall 213)

Monday – Friday: 1:15 pm – 03:00 pm (West Hall 213)

Office Hours:

- Monday, Wednesday – Friday : 11:00 -11:50 am (West Hall 210)

Textbook:

“Book of Proof” by Richard Hammack.

Description:

This course covers concepts in Discrete Mathematics which are relevant to the field of computer science. Although, we will cover concepts such as logic, sets and relations, the course will mainly focus on the proofs. We will see following concepts:

1. Sets
2. Logic
3. Direct Proof
4. Proof by Contradiction
5. Proof by Induction
6. Relations
7. Functions

You will have daily reading assignments and class time will be spend discussing the concepts from the reading assignments and applying them to solve problems.

This course fulfils knowledge, inquiry, reasoning, communication, and ethical behavior educational priorities of Cornell College. You can see a complete list of Cornell College’s Educational Priorities and Outcome [here](#).

Assessment:

Sr. No.	Type	Frequency	Weightage
1	Quizzes	3-5 times a week	20%
2	Assignments	3 time a week	30%
3	Exams	2 nd & 4 th Wednesday, 3 rd Friday	30%
4	Class Participation	Everyday	20%

Please note that this is somewhat loose structure, just to give you an idea. I will explain the assessment process in detail during the first lecture.

Quizzes:

I am planning to take daily quizzes. Quiz will be based on the reading assignments. Quizzes will have one or two simple questions and each quiz will be for 10 minutes. The goal of a quiz is for you to assess if you can apply the learned concepts and for me to assess any gaps you have in your knowledge so that we can decide which material to focus on.

Exams:

All exams are comprehensive. Each exam will be for 10% of your final credit. All exams are close book and first exam will also be close notes. After the first exam, we will decide whether to have open notes exam or close notes exams.

Class Participation:

Class participation does not depend only on the attendance. Class participation will be based on how much you participate in the class discussion, how attentive you are in the classroom and your overall behavior in the class.

Course Policies:

1. Academic Honesty: Cornell College expects all members of the Cornell College to act with academic integrity. An important aspect of academic integrity is respecting the work of others. Please refer to the Cornell College's Academic Honesty Policy.

2. Disability Services and Resources: Cornell College is committed to be an exciting place of learning and discovery for all of its students and strives to provide equal educational opportunities to students with disabilities. Students should notify the Coordinator of Academic Support and Advising and their course instructor of any disabilities related accommodations within the first three days of the term. If you have more questions regarding the accommodations, please visit [Cornell College's policy](#) and contact me.