

CISC 2210 – Introduction to Discrete Structures

Reading Assignment: Sets

- Watch lecture 5 “Set Theory” from “Introduction to Higher Math”. The first 4 lectures were part of the previous reading assignment.

– https://www.youtube.com/watch?list=PLZzHxk_TP0StgPtqRZ6KzmkUQBQ8TSWVX&v=HoWCOGQWGaA&feature=youtu.be

- Watch lectures 1,3,4 about Sets from TrevTutor.

– Introduction to Set Theory: <https://www.youtube.com/watch?v=tyDKR4FG3Yw&feature=youtu.be>

– Subsets and Power Sets: <https://www.youtube.com/watch?v=H5D6EAeZsXQ&feature=youtu.be>

– Set Operations: <https://www.youtube.com/watch?v=4TlCToZZ5gA&feature=youtu.be>

– All lectures and practice sessions (first 13 videos): <https://www.youtube.com/playlist?list=PLDDGPdw7e6Ag1EIznZ-m-qXu4XX3A0cIz>

- Study the text about the De Morgan’s Laws.

– <https://www.embibe.com/exams/de-morgans-law/>

- Study the following tutorials.

– Short and basic: https://www.tutorialspoint.com/discrete_mathematics/discrete_mathematics_sets.htm

– Long (19 text lectures): <https://www.math-only-math.com/set-theory.html>

- Additional resources.

– Basic Set Theory in 5 parts.

* Introduction to Sets and Set Notation: <https://www.youtube.com/watch?v=rRk0d6P4oUI>

* Common Universal Sets: <https://www.youtube.com/watch?v=pL7m76igVFA>

* Set Operations, Complements, and Subsets: <https://www.youtube.com/watch?v=G0gNoYw9qYE>

* More About Elements and Subsets: <https://www.youtube.com/watch?v=ZapWv4v7ybQ>

* Cardinality: https://www.youtube.com/watch?v=CeW_FAp2v8U&t=3s

– More about sets via examples.

* Set Elements and Subsets: <https://www.youtube.com/watch?v=pC97Y5M1P10>

* Empty set and Power Sets: <https://www.youtube.com/watch?v=96VRFFu10QA>

– Types of sets.

* <https://www.youtube.com/watch?v=VBzlvKP-2yI>

– Set Theory Basics.

* <https://www.youtube.com/watch?v=IqX0emlxVEU>