

CISC 2210 – Introduction to Discrete Structures

Reading Assignment: Logic

- Watch lectures 3 and 6 about Logic from “Introduction to Higher Math”. For completeness, lectures 1-9 are all good.
 - Propositional Logic: https://www.youtube.com/watch?v=3kzhDsSzKCU&list=PLZzHxk_TP0StgPtqRZ6KzmkUQBQ8TSWVX&index=3&t=841s
 - Predicate Logic: https://www.youtube.com/watch?v=YbNmPievBak&list=PLZzHxk_TP0StgPtqRZ6KzmkUQBQ8TSWVX&index=6&t=706s
 - First 9 lectures: https://www.youtube.com/playlist?list=PLZzHxk_TP0StgPtqRZ6KzmkUQBQ8TSWVX
- Watch the 8 lectures about Logic from TrevTutor.
 - Introduction to Propositional Logic: <https://www.youtube.com/watch?v=itrXYg41-V0&feature=youtu.be>
 - Truth Tables: <https://www.youtube.com/watch?v=UiGu57JzLkE&feature=youtu.be>
 - Proofs with Truth Tables: https://www.youtube.com/watch?v=9fX6n0_MDic&feature=youtu.be
 - Logic Laws: <https://www.youtube.com/watch?v=eihhu72YdpQ&feature=youtu.be>
 - Conditionals <https://www.youtube.com/watch?v=xag9TEAORK4&feature=youtu.be>
 - Proof by Contraposition <https://www.youtube.com/watch?v=X-hJ7krLBn0>
 - Rules of Inference: <https://www.youtube.com/watch?v=8DW0K3mnc-0&feature=youtu.be>
 - Predicate Logic and Quantifier Negation: <https://www.youtube.com/watch?v=gyoqX0W-NH4&feature=youtu.be>
- Additional resources.
 - Formal Logic: https://www.youtube.com/watch?v=u8DRZUBc1Qw&index=2&list=PLMyAzUa19V3ox_LDw154GRkNxovx6NqQX
 - Truth Tables: <https://www.youtube.com/watch?v=fbuRxa9MNPm>
- A full basic course: “Introduction to logic by Logic 101” (48 lectures):
 - <http://gametheory101.com/courses/logic-101/>