

Math 3283 - Foundations of Mathematics
 Spring 2019 - Schedule
 updated April 22, 2019 at 10:35

Class	Day	Section	Title	Description
1	2019.01.14	1.1	Propositions, Connectives and Truth Tables	Introduction to the semester. Discuss Section 1.1, reading assigned.
2	2019.01.16			Discussion over Section 1.1 reading, introduction to truth tables. Problems 1.1.1-1.1.14 assigned.
3	2019.01.18	1.2	Logical Equivalence and Implication	Finish discussion of Section 1.1, start Section 1.2, problems 1.2.1-1.2.25 assigned.
4	2019.01.23			HW from Section 1.1 due, continue discussion of Section 1.2, work on assigned problems in class.
5	2019.01.25			Continue discussion over 1.2 and corresponding HW problems.
6	2019.01.28			Continue to work on Section 1.2 HW problems. Read Section 1.3 for next class meeting.
7	2019.01.30	1.3	Quantifiers	HW from Section 1.2 due, start of Section 1.3 discussion.
8	2019.02.01			Continue discussion over 1.3.
9	2019.02.04			Finish discussion of 1.3, start on HW problems.
10	2019.02.06			More discussion of HW problems.
11	2019.02.08			HW problems due, review for Exam 1.
12	2019.02.11		Chapter 1 Exam	Exam over Chapter 1 material.
13	2019.02.13	2.1	Making Conjectures	Introduction to Chapter 2, looking for patterns, making conjectures.
14	2019.02.15			Discussion of HW problems, problems 2.1.1-2.2.12 assigned. Read Section 2.2 for next class.
15	2019.02.18	2.2	Conditionals and Contradictions	Problems 2.1.1-2.2.12 due. Start discussion of Section 2.2 - focusing mainly on approaches to proving conditional type conjectures.
16	2019.02.20			Continue discussion of Section 2.2 and start on HW problems.
17	2019.02.22			More talk of proof techniques for conditional sentences, work on HW problems again.
18	2019.02.25			Continue working on Problems 2.2.1-2.2.15 in class.
19	2019.02.27	2.3	Cases, Biconditionals and Quantifiers	Problems 2.2.1-2.2.15 due, start of discussion of Section 2.3.
20	2019.03.01			No class.
21	2019.03.04			Introduce the concepts of constructive and nonconstructive proofs, and proofs involving quantifiers.
22	2019.03.06			Start on homework problems from Section 2.3.
23	2019.03.08			Continue working on problems from Section 2.3.
24	2019.03.11			Finish problems from Section 2.3.

continued on next page....

Class	Day	Section	Title	Description
25	2019.03.13	2.4	Mathematical Induction	Start discussion of Section 2.4 - Mathematical Induction. HW from Section 2.3. due.
26	2019.03.15			Discuss the difference between strong and weak induction.
27	2019.03.25			Work on problems from Section 2.4.
28	2019.03.27			Work on problems from Section 2.4.
29	2019.03.29			Work on problems from Section 2.4.
30	2019.04.01			Work on problems from Section 2.4.
31	2019.04.03			HW from Section 2.4 due, review of Chapter 2 for exam.
32	2019.04.05		Chapter 2 Exam	Exam over Chapter 2 material.
33	2019.04.08	3.1	Set Notation and Venn Diagrams	Have 3.1 read for discussion in class, Discuss sets and set relations.
34	2019.04.10			Continue discussion of set relations, introduce set operations.
35	2019.04.12			Work on problems from Section 3.1.
36	2019.04.15			Work on problems from Section 3.1. Read 3.2 for Wednesday.
37	2019.04.17	3.2	Proof Techniques in Set Theory	HW from 3.1 due, start discussion of Section 3.2.
38	2019.04.22			Continue working out problems from 3.2.
39	2019.04.24	3.3	Cartesian Products and Relations	Finish up HW from 3.2 and start on 3.3.