Real Analysis, Unit 2 Plan, F2022

Tues	Thurs
September 20, 2022	September 22, 2022
Exam 1 *Exam 1 covers 1.1-2.4.*	2.8-2.9 Order Properties; Monotone Criterion Due today: • W 2.6-2.7 • D 2.8-2.9 • Read 2.10-2.11, RQ 2.10-2.11
September 27, 2022	September 29, 2022
Service Day	2.10-2.11 Examples of Limits; Subsequences Due today: • W 2.8-2.9 • D 2.10-2.11 • Read 2.12, RQ 2.12
October 4, 2022	October 6, 2022
2.12 Cauchy Criterion Due today: • W 2.10-2.11 • D 2.12 • Read 4.1-4.2, RQ 4.1-4.2	Fall Break
October 11, 2022	October 13, 2022
4.1-4.2 Sets, Points Due today: • W 2.12 • D 4.1-4.2 • Read 4.3-4.4, RQ 4.3-4.4	4.3-4.4 Sets, Topology Due today: • W 4.1-4.2 • D 4.3-4.4 • Read 4.5-6 (*omit 4.5.2-3; see notes*), RQ 4.5-4.6
October 18, 2022	October 20, 2022
4.5-4.6 Compactness (*omit 4.5.2-3; see notes on the HB Theorem*); Countability **Quiz 3** (Points) Due today: • W 4.3-4.4 • D 4.4-4.5 • Read 5.1 (*omit 5.1.3*), RQ 5.1	5.1 Intro to Limits (*Omit 5.1.3*) Due today: • W 4.5-4.6 • D 5.1 • Read 5.2, RQ 5.2
October 25, 2022	October 27, 2022
5.2 Properties of Limits Due today: • W 5.1 • D 5.2 • Read 5.4-5.5, RQ 5.4-5.5	**Exam 2** *Exam 2 covers 2.5-4.6.*

*An asterisk next to a problem indicates that I have modified the problem or provided a hint. (A problem in parentheses is a challenge problem. Make sure you understand the other problems before attempting the challenge problems.)