MATH 145A - SET THEORY I TENTATIVE SCHEDULE

Day	Topic
T, Sep 3	Introduction HW1 out
R, Sep 5	Basics of class/set theory
T, Sep 10	Partial orders, axiom of infinity, construction of Z, Q, R HW1 due. HW2 out
R, Sep 12	Back and forth, characterization of Q and R
T, Sep 17	Well-foundedness, ordinals HW2 due. HW3 out
R, Sep 19	More on ordinals
T, Sep 24	Axiom of choice, cardinals HW3 due. HW4 out
R, Sep 26	Cardinal arithmetic
T, Oct 1	Regular and singular cardinals, more cardinal arithmetic HW4 due. HW5 out
R, Oct 3	Borel sets
T, Oct 8	The continuum hypothesis for closed sets HW5 due. HW6 out
R, Oct 10	Axiom of determinacy
T, Oct 15	Some games HW6 due. HW 7 out
R, Oct 17	Midterm
T, Oct 22	Trees and projections HW8 out
R, Oct 24	Filters and ultrafilters. Infinite Ramsey theorem HW7 due
T, Oct 29	Clubs and stationary sets HW8 due. Project proposal due. HW9 out
R, Oct 31	Splitting the stationary set
T, Nov 5	Silver's theorem. HW9 due. HW10 out
R, Nov 7	Axiom of foundation, the cumulative hierarchy
T, Nov 12	The constructible universe HW10 due. HW11 out
R, Nov 14	The continuum hypothesis in the constructible universe
T, Nov 19	The measure problem HW11 due. Project draft due. HW12 out
R, Nov 21	Introduction to large cardinals
T, Nov 26	Selected topics HW12 due. Project peer review due
R, Nov 28	No class (Thanksgiving break)
T, Dec 3	Student project presentations, or selected topics Final out
R, Dec 5	No class. Final due. Final project due Friday

Date: August 20, 2019.