Syllabus (approximate… work in progress):

Week 1  – Review thin-film PV (Basics and semiconductor physics)
Week 2  – Review thin-film PV (p-n junctions under dark and light conditions)
Week 3  – Recombination and loss mechanisms
Week 4  – Basic measurement techniques and summary of thin film PV types
Week 5  – Detailed look at CIGS/CdTe
Week 6  – Device modeling… and perovskite PV

Oct 3  -- Midterm I
Week 7  – CZTS and earth abundant / selection of advanced topics
Week 8  – Detailed look at perovskite and intro to lab
Week 9  – Lab project
Week 10 – Lab project
Week 11 – Presentation of lab results + Amorphous Si + Organics
Week 12 – Guest lecture (J. Berry, NREL) Nov 14 on adv. char. (lab reports due)

Nov 16  -- Midterm II
Week 13 – Student presentations on advanced topic (20/5 min each)
Week 14 – Student presentations on advanced topic (20/5 min each)