

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 \(20/5 min each\)](#)