MATH 2250, Fall 2015
LECTURE SCHEDULE

INSTRUCTOR: DANNY KRASHEN

1. **Orientation**: introduction to the ideas of calculus, differentiation, integration, fundamental theorem of calculus. basic ideas of limits and their relevance. common sense definition of limits (recitation).
2. **Limits and limit laws** (Mooculus Ch 1): formal definition of limits, example via definition. limit laws (Mooculus, 1.3), examples.
3. **continuity, squeeze, One sided limits, some diffence quotients**
    i. limit laws (1.3) give continuity for polynomials, roots, etc.
    ii. mention that trig functions are continuous (continuity in 2.3).
    iii. examples, group work (radical cancellation!).
    iv. squeeze (1.3.5), sine (1.3.6)
    v. examples, group work (trig stuff)
    vi. definition of one sided limits. one-sided limit laws. infinite limits and asymptotes (2.1).