Week 1
3/29 – Introduction to Sedimentology and Stratigraphy
3/31 – Lecture 1: Plate tectonics & Sedimentary Basins

Week 2
4/5 - Lecture 2: Origin of Sediments – weathering/maturity
4/7 – Field Trip 1 – Tourmaline Beach Margin Deposition

Week 3
4/12 - Lecture 3: Sediment transport and deposition
4/14 - Lab 1 - Grain size analysis and petrology of beach sands Driscoll Lab. This lab will examine grain size distribution of La Jolla beach sands as well as the composition of the beach sand. We will determine the maturity of the sands in our backyard.

Week 4
4/19- Lecture 5: Depositional systems: Rivers [Proposal topic submitted]
4/21 – Field Trip 2 – Torrey Pines State Beach

Week 5
4/26 - Lecture 6: Depositional systems: Beaches
4/28: Lecture 7: Depositional systems: Shelf
4/28: Lab 2 - Examining Cores and Marine Deposits

Week 6
5/3 - Lecture 8: Depositional systems: Slope, Rise, deep-sea fans
5/5 – Field Trip 3 – Blacks Beach – Submarine Fans

Week 7
5/10 – Mid-Term Exam
5/12 - Lecture 9: Depositional systems: Slope, Rise, deep-sea fans II
5/12 - Lab 3 – sedimentary rocks in hand specimen and thin section

Week 8
5/17 - Lecture 10: Lithostratigraphy, Biostratigraphy, Chronostratigraphy
5/19 – Lecture 11: Lithostratigraphy, Biostratigraphy, Chronostratigraphy II

Week 9
5/24 – Lecture 12: Sequence Stratigraphy
5/26 – Lecture 13 - Sequence Stratigraphy II
5/26 – Lab 4 – Sequence Stratigraphy Exercise

Week 10
5/31 - Class Presentations
6/2 – Class Presentations

Week 11
6/6 – Final Exams