Math 215C - Complex Analysis, Geometry, Topology - Spring 2014

Course Schedule

- 1. Week of 3/31: Duality Theorems
- 2. Week of 4/6: Duality Theorems with Applications, Intersection theory
- 3. Week of 4/13: Differential forms, exterior derivatives, de Rham cohomology.
- 4. Week of 4/20: Stokes' theorem, de Rham theorem, Problem Set 1 due 4/24.
- 5. Week of 4/27: Sard's theorem, Embedding theorems, tubular neighborhood theorem.
- 6. Week of 5/4: Fiber bundles, vector bundles, Thom transversality theorem. Cobordism.
- 7. Week of 5/11: Thom Isomorphism. Problem Set 2 due 5/15.
- 8. Week of 5/18: Intersection theory again.
- 9. Week of 5/25: Euler and Stiefel-Whitney classes.
- 10. Week of 6/1: Enumerative geometry, Problem Set 3 due 6/5.