Syllabus for Math 596: Complex Analysis


5. **Schwarz’s Lemma.** Schwarz’s Lemma, Pick’s Lemma. Automorphisms of the unit disc.

6. **Conformal mappings.** Definition of conformality. Basic examples of conformal mappings onto the unit disc. The Riemann mapping theorem.


**References**
- Gamelin; *Complex Analysis*.
- Ahlfors; *Complex Analysis*.