**FRE6411**

**Dr. Steve Mandel**

**Course Syllabus**

Week 1

* Introduction to fixed income securities.
* Overview of Yield Book System and Spread sheet Models
* Nominal P/Y Values (Yield, Accrued Interest, Duration, Convexity, DV01)

Week 2

* Yield Curves (On the Run vs Off the Run Curves)
* Boot Strap calculation of Spot and Forward Curves from Par Curve
* Calculating Spot and Par curves from Forward Curves
* Calculating Nominal Spreads
* Total Return, Rolling Yield

Week 3

* Trade Weighting (Barbell vs Bullet yield curve strategies)
* OAS Models
* Effective Measures ( OAS, Effective Duration, Effective Convexity, Spread Duration)

Week 4

* Key Rate Durations
* Principal Components
* Portfolio Optimization

Week 5

* Return Attribution

Week 6

* Index Tracking Strategies
* Review

Week 7

* Final Examination