Eco. 305: Study Guide Part I: The Theory of Consumer Choice

- 1. Consumer Preferences:
 - The concept of utility, and cardinal versus ordinal measure of utility.
 - Indifference curve and its salient properties.
 - The slope of an indifference curve as a measure of *relative values* of any pair utility generating commodities (such as, apple vs. banana; leisure vs. income; present vs. future consumption) to a consumer.
- 2. Budget Constraints:
 - The slope of a budget line as a measure of *relative price* or *market opportunity cost*.
 - Factors causing a shift or rotation of a consumer budget line.
- 3. The Equi-marginal Principle.
- 4. The Calculus of Utility Maximization.
 - Utility maximization as constrained optimization problem
 - The Lagrange method
- 5. Derivation of the Individual Consumer Demand Curve
 - The price consumption curve
 - The income and substitution effect of a price change
 - The link between the <u>LAWS</u> of demand, diminishing marginal rate of substitution and diminishing marginal utility
 - The concept of an inferior and normal goods
 - The Giffen Paradox
- 6. The Market Demand Curve
 - From the individual to the market demand curve
 - Price elasticity of demand
 - Price elasticity and total revenue
 - Other demand elasticities
 - The concept of consumers surplus

- 7. The Supply of Labor
 - The income-leisure model
 - Wage as the market opportunity cost of leisure
 - The income and substitution effects of a wage change.
 - Why the labor supply curve of an individual household may be backward bending
 - Market supply curve for labor
- 8. The Supply of Saving.
 - Preference function for time dated commodities—present versus future consumption.
 - Intertemporal budget constraint
 - The role of market interest rate in the optimal saving decision of a household
- 9. Static and Comparative Static Equilibrium Analysis
 - Static equilibrium—any attempt to explain how a given equilibrium condition is attained or reached. For example, why our familiar utility maximizing condition $MRS_{x/y} = P_x/P_y$ constitutes equilibrium.
 - Comparative static equilibrium—deals with an analysis of how an equilibrium is restored after a disturbance to an initial equilibrium position resulting from an external (exogenous) shock. For example, suppose a utility maximizing consumer is in a state of equilibrium; more specifically the $MRS_{x/y} = P_x/P_y = 2$. In addition, let us suppose that the market price for commodity X (which is not under the control of the individual consumer) suddenly increases while the price for P_y remains unchanged. Thus, immediately afterwards, the consumer will no longer be in equilibrium since $MRS_{x/y} < 2$. Now, the question is how will a utility maximizing consumer adjust the combination of the commodities X and Y that she utilizes so equilibrium is restored? A systematic effort to answer this type of question requires a comparative static equilibrium analysis.