Potential Econometric Topics for the Senior Exercise

Descriptive Statistics (e.g., mean, variance, covariance)
Confidence Intervals and Hypothesis Testing (as it relates to means and comparisons of means)
Ordinary Least Squares Regression (R², Decomposition of Variance, Standard Error of the Regression)
Classical Assumptions
Interpretation of Coefficient Estimates
Confidence Intervals and Hypothesis Testing (as it relates to OLS coefficients)
Statistical and Economic Significance
Functional Form (natural logarithmic transformations, polynomials, indicator variables)
Omitted Variables
Instrumental Variables Estimation (2SLS)
Multicollinearity
Serial Correlation
Heteroskedasticity
Binary Dependent Variable (linear probability model, probit, logit)
Simple Panel Methods (fixed effects)
Simple Time Series Methods (lagged effects including lagged dependent variable, differencing)