Econ 480-2

- I. Asymptotic Distribution Theory
 - A. Summary of relevant probability theory (Rao Ch. 2)
 - B. Modes of convergence (Amemiya Ch. 3, Rao Ch. 2, Serfling Ch. 1)
 - C. Laws of large numbers (Amemiya Ch. 3, Rao Ch. 2, White Ch. 3)

D. Central limit theorems (Amemiya Ch. 3, Rao Ch. 2, Billingsley Sec. 27, White Ch. 5)

II. Asymptotic Properties of Extremum Estimators (Amemiya, Ch. 4; Newey and McFadden)

A. Consistency (Amemiya, Sec. 4.1.1; Newey and McFadden, Sec. 2)

B. Asymptotic normality (Amemiya, Sec. 4.1.2; Newey and McFadden, Sec. 3)

C. Linear and nonlinear least squares (Amemiya, Sec. 4.3; Newey and McFadden, Sec. 2.2.2)

D. The maximum likelihood estimator (Amemiya, Sec. 4.2.1-4.2.3; Newey and McFadden, Sec. 2.2.1, 2.4, 3.2-3.3, 4.2)

E. Asymptotic efficiency (Amemiya, Sec. 4.2.4; Newey and McFadden, Sec. 5)

F. Generalized-method-of-moments estimators (Amemiya, Sec. 8.1.1, 8.2.2; Newey and McFadden, Sec. 1, 2.2.3, 2.5, 3.3, 4.3)

G. Least absolute deviations (Newey and McFadden, Sec. 7)

H. One-step estimators (Amemiya, Sec. 4.4.2; Newey and McFadden, Sec. 3.4)

I. Hypothesis tests (Amemiya, Sec. 4.5.1; Newey and McFadden, Sec. 9)