

## Example Programs for the Advanced Training Requirement

What follows are illustrative courses on particular themes, from which the student could select two courses, along with the (as yet unnumbered) capstone course. It is possible that the Board will approve a successful application with three courses that does not include the capstone. Listed only are suggested courses in social science departments, Computer Science Fuqua, and Statistical Science.

*Computer Science:* 532 (algorithms), 534 (computational complexity), 520 (numerical analysis), 570 (artificial intelligence).

*Economics:* 701 (microeconomics 1), 705 (microeconomics 2), 702 (macroeconomics 1), 706 (macroeconomics 2), 703 (econometrics 1), economics 707 (econometrics 2), 612 (time series).

*Fuqua BA:* 513 (cross listed as Stat 503, choice theory), 561 (survey methods), 564 (experimental methods).

*Political science:* 632 (computational political economy), 733 (advanced regression), 716 / 717S (institutions), 747S (seminar in political economy).

*Psychology:* 711S (social psychology), 716 (behavior decision theory), 768 (structural equation modeling).

*Sociology:* 725 (basic demographic methods), 750S (population dynamics), 728 (social networks).

*Statistics:* 711 (probability & measure theory), 732 (statistical inference), 502 (Bayesian inference), 721 (applied data analysis), 832 (multivariate statistics), 623 (statistical decision theory), 942 (time series and forecasting).