III) REQUIREMENTS FOR THE MS DEGREE FOR PHD STUDENTS IN OTHER DEPARTMENTS

The Department offers an MS degree in Statistics for doctoral students in Economics, Political Science, Sociology, Psychology, Learning Sciences, and Human Development & Social Policy who wish to establish their qualifications in statistics and quantitative research methodology. Students will be expected to take a total of 9 courses in a program to be approved by the program director. Two of these courses (STAT320-1, 2) will ordinarily be required of all students to provide a foundation in statistical theory. Students should also complete 7 other courses selected with the advice and approval of the program director, at least two of which must be taught in the Department of Statistics. Note that the program may be completed entirely from courses taught in the Statistics Department, but may include up to 4 courses from departments other than Statistics with the approval of the program director. No comprehensive exam or thesis is required. A tentative list of the courses includes:

Statistics

STAT320-1, 2 (Statistical Methods I, II, required)
STAT320-3 (Statistical Methods, III)
STAT325 (Survey Sampling)
STAT328 (Causal Inference)
STAT344 (Statistical Computing)
STAT345 (Statistical Demography)
STAT348 (Applied Multivariate Analysis)
STAT350 (Regression Analysis)
STAT351 (Design and Analysis of Experiments)
STAT355 (Analysis of Qualitative Data)
STAT352 (Nonparametric Statistical Methods)
STAT354 (Applied Time Series Modeling and Forecasting)
STAT356 (Hierarchical Linear Models)
STAT439 (Meta-Analysis)

Economics

ECON380-1, 2 (Introduction to Mathematical Economics I, II)
ECON381-1, 2 (Introduction to Econometrics I, II)
ECON401 (Mathematical Methods of Economic Theory)
ECON 4801, 2, 3 (Introduction to Econometrics I, II, III)
ECON481-1, 2, 3 (Econometrics I, II, III)
ECON483 (Applied Econometrics: Cross Sectional Methods)

Epidemiology and Biostatistics

EPI BIO501 (Advanced Epidemiology)
EPI BIO502 (Advanced Biostatistics)

Political Science

POLI SCI405 (Linear Models)
POLI SCI406 (Econometrics)
POLI SCI407 (Experimental Political Science)

Psychology

PSYCH405 (Psychometric Theory)

Sociology

SOCIOL404 (Designs for Descriptive Causal Research in Field Settings)
SOCIOL402 (Event History Analysis)
SOCIOL476 (Statistical Methods for Hierarchical and Panel Data)