TOOLS AND METHODS

Various courses count as 'Tools and Methods'. These courses can be categorized. Following are the categories of 'Tools and Methods' courses and examples of courses in each category. On a yearly basis, the HFE faculty group updates the list of 'Tools and Methods' courses. Advisors will decide which set of 'Tools and Methods' courses is appropriate for the student.

RESEARCH METHODS

- ISyE 610 Design of Program Evaluation Systems
- IE 816/854 Field Research Methods
- Pop Health 796 Health Services Research
- Pop Health 797 Introduction to Epidemiology
- SOC 357 Methods of Sociological Inquiry
- SOC 750 Research Methods
- SOC 751 Survey Methods
- SOC 752 Methods of Survey Research: Application

STATISTICS

- STAT 333 Applied Regression Analysis
- STAT/ME 424 Statistical Experimental Design for Engineers
- STAT 351 Intro - Nonparametric Statistics
- STAT/BUS 756 Applied Multivariate Analysis
- PSYCH 610 Statistical Analysis of Psychological Experiments
- PSYCH 615 Quantitative Methods in Psychology
- PSYC 710 Multiple regression
- PSYC 711 Multivariate statistics (MANOVA, meta-analysis, factor analysis)
- PSYC 711 SEM
- ISyE 575 Introduction to Quality Engineering
- BUS 706 Statistics - Anova, Regression
- GEN BUS 806 Panel data analysis
- SOC 952 Path Analysis and Structural Equation Models
- SOC 952 Models for survival and event history data
- Pop Health 798 Introduction to Epidemiological Statistics
- Pop Health 800 Epidemiological Statistics
- EDPSYC 711 SEM
- EDPSYC 711 HLM
EDPSYC 761  Topic Course
EDPSYC 773  Factor Analysis, Multidimensional Scaling and Cluster Analysis
EDPSYC 861  Non-Parametric Statistics
EDPSYC 862  Multivariate Statistics (MANOVA, Discriminant analysis, canonical correlations)

QUALITATIVE RESEARCH

SOC 755  Methods in Qualitative Research
CURRIC 717  Introduction to Qualitative Research
ED ADMIN  Field Research Designs and Methodologies in Educational Administration
824  Administration

BIOMECHANICS METHODS

BME 315  Biomechanics
BME 310  Bioinstrumentation
BME 462  Biomedical Instrumentation
ECE 463  Computers in Medicine
PHYSIOL 335  Human Physiology

The list of 'Tools and Methods' courses is reviewed on a yearly basis by the HFE faculty.