Requirements for Statistics Concentration

The Statistics concentration or major may be tailored in accordance with student's interests, which typically involve a second major such as Marketing or Finance.

A total of five credit units are required, with at least 3 credit units from Statistics. STAT 621 may contribute 0.5 credit units.

Courses taken Pass/Fail basis cannot be counted toward the major. Note that Stat courses that are not listed as MBA courses (typically denoted by a 700 number) do not count toward the MBA GPA. These are also not listed in the course auction (ie, you don't bid on them to get in).

Courses in Statistics

The following courses offered by the Department of Statistics are eligible for the major. Depending on the collection of courses, others may also be acceptable.

STAT 430/510 Probability
STAT 432/512 Mathematical Statistics
STAT 433 Stochastic Processes
STAT 434 Financial and Economic Time Series
STAT 474 Modern Regression for Social and Environmental Sciences
STAT 520 Applied Econometrics I
STAT 521 Applied Econometrics II
STAT 540 Statistical Methods and Computation
STAT 622 Statistical Modeling
STAT 701 Advanced Statistics for Management
STAT 711 Forecasting Methods for Management
STAT 712 Decision Making Under Uncertainty
STAT 853 Actuarial Statistics
STAT 854 Applied Statistical Methods for Actuaries

The following courses are also eligible, but presume a more extensive mathematical background.

STAT 550 Mathematical Statistics
STAT 910 Forecasting and Time Series Analysis
STAT 920 Sample Survey Methods
STAT 925 Multivariate Analysis
STAT 950 Quantitative Consulting Practicum

Courses in Other Departments
Some courses offered by other departments are permitted. The list below is meant to be suggestive; any courses (including these) outside those offered by the Department of Statistics must be approved to be considered part of the concentration. If you plan to count courses from outside Statistics as part of the concentration, your collection must be approved.

Marketing
MKTG 756 Marketing Research
MKTG 776 Applied Probability Models in Marketing

Finance
FNCE 717 Financial Derivatives
FNCE 720 Investment Management
FNCE 725 Fixed Income Securities
FNCE 892 Financial Engineering

Operations (OPIM)
OPIM 653 Mathematical Modeling and its Application in Finance

Insurance
INSR 831 Applied Statistical Methods for Actuaries
INSR 833 Actuarial Statistics

Examples
As an illustration, the following collection of courses is appropriate for a student with interests in Finance who also wishes to have a concentration in Statistics (4 c.u. in Statistics):

STAT 621	Statistical Methods for Managers (core, ½ c.u.)
STAT 622	Statistical Methods (½ c.u.)
STAT 434	Financial Time Series
STAT 510	Probability and Statistics
STAT 711	Forecasting
FNCE 717	Financial Derivatives

For a student with interests in Marketing, these courses would be suitable for a concentration in Statistics (3 c.u. in Statistics):

STAT 621	Statistical Methods for Managers (core, ½ c.u.)
STAT 622	Statistical Methods (½ c.u.)
STAT 510	Probability and Statistics
STAT 920	Sample Survey Methods
MKTG 756	Marketing Research
MKTG 776	Applied Probability Models