Requirements for Statistics Major

The Statistics major for MBA students is typically combined with a major in an area of applications, most often Marketing or Finance.

A total of five credit units are required, with at least 3 credit units from Statistics. Stat 613 may count as 1 of these. Alternatively, Stat 621 can be included (1/2 credit).

Courses taken on a Pass/Fail basis cannot be counted toward the major. Many courses in Statistics that can be used to satisfy the requirement are not listed as MBA courses and do not appear in the course auction. For courses not in the auction, you must sign up through the university course registration process. That usually happens around the middle of the prior semester.

Courses in Statistics
The following courses offered by the Department of Statistics are eligible for the major. Depending on the program of study, others courses may also be acceptable with permission.

STAT 430/510 Probability
STAT 432/512 Mathematical Statistics
STAT 433 Stochastic Processes
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 853 Actuarial Statistics
STAT 854 Applied Statistical Methods for Actuaries
STAT 950 Quantitative Consulting Practicum

The following courses are also eligible, but presume a more extensive mathematical background. Contact the instructor for more information and requirements.

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

Courses in Other Departments
Selected courses offered by other departments are permitted to contribute toward the major if they have sufficient statistical content. The list below is suggestive; any courses outside those offered by the Department of Statistics are subject to approval if counted toward the concentration. If you plan to count courses from outside Statistics as part of the concentration, your collection must be approved.

Marketing
MKTG 712 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.

STAT 621	Statistical Methods for Managers (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 613	Statistical Methods
STAT 510	Probability and Statistics
STAT 920	Sample Survey Methods
MKTG 712	Marketing Research
MKTG 776	Applied Probability Models