

MANAGERIAL STATISTICS (MAS)

MAS 180 International Course (1-12 Credits)

Management

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the SU academic department to assign the appropriate course level, title, and grade for the student's transcript.

Repeatable

MAS 261 Introductory Statistics for Management (3 Credits)

Management

Basic statistical theory and data analysis methods. Describing data graphically and numerically. Probability distributions. Sampling. Statistical tests and intervals. Use of computer statistics programs. Emphasis on choice, limitations, and interpretation of methods for management use.

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>); Scientific Inquiry and Research Skills (<https://coursecatalog.syracuse.edu/shared-competencies/scientific-inquiry-and-research-skills/>)

MAS 280 International Course (1-12 Credits)

Management

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Repeatable

MAS 362 Decision Tools for Management (3 Credits)

Management

Review of important statistical concepts. Mathematical models for management data emphasizing correct use and interpretation of results. Linear and logistic regression. Time series analysis. Model assumptions and limitations.

Prereq: MAS 261 or MAT 122 or MAT 221

MAS 380 International Course (1-6 Credits)

Management

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Repeatable

MAS 423 Introduction to Nonparametric Statistics (3 Credits)

Management

Selected nonparametric statistical methods; those requiring few assumptions about the population. Related aspects of probability theory, hypothesis formulation and testing, and estimation for population location, dispersion, and functional form.

Prereq: MAS 362

MAS 465 Applied Sample Survey Methods (3 Credits)

Management

Survey methods applicable to management and other social science areas. Various sample designs: cost and accuracy, estimation for population location, dispersion, and functional form.

Prereq: MAS 362

MAS 466 Data Mining for Business (3 Credits)

Management

Cross-listed with BUA 466

The course will examine how data mining methods and data-driven predictive models can help improve business decision-making. Data mining techniques covered: classification, clustering, association analysis, and optimization.

Prereq: MAS 362

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

MAS 470 Experience Credit (1-6 Credits)

Management

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing.

Repeatable

MAS 477 Time Series Analysis and Forecasting (3 Credits)

Management

Basic concepts applied to management. Discrete time-series analysis for forecasting and control. Selected statistical models. Regression analysis. ARIMA methods, econometric modeling. Forecasting and business planning. Evaluation of forecasts. Case studies.

Prereq: MAS 362

MAS 490 Independent Study (1-6 Credits)

Management

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department.

Repeatable

MAS 499 Honors Capstone Project (1-3 Credits)

Management

Completion of an Honors Capstone Project under the supervision of a faculty member.

Repeatable 3 times for 3 credits maximum

MAS 558 Seminar in Managerial Statistics (3 Credits)

Management

Individual study involving selected readings and reports in specific areas of interest.

MAS 568 Statistical Methods for Accounting and Auditing (3 Credits)

Management

Statistical Methods of relevance to accounting and auditing. Emphasis on the application of these methods to accounting and auditing problems, such as audits and determination of costs as functions of volume of output, and other factors.