Business Analytics Courses: Summer 2024

BZAN102101
Operations Management
Parker, Delvon B
Summer 2024
This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN103601
Introduction to Excel
Neale, John J
Summer 2024
Due to their accessibility and versatility, spreadsheets are still the most common tool for quantitative analysis in the business world. This module will teach you how to use spreadsheets to analyze data and build models, ultimately leading to better business decisions.Topics covered will include formulas and functions, pivot tables, and best practices for spreadsheet design.

Credits: 1
Room and Schedule: Stokes Hall 295S W 12:30PM-02:45PM
Satisifies Core Requirement: None

Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN103602
Introduction to Excel
Neale, John J
Summer 2024
Due to their accessibility and versatility, spreadsheets are still the most common tool for quantitative analysis in the business world. This module will teach you how to use spreadsheets to analyze data and build models, ultimately leading to better business decisions.Topics covered will include formulas and functions, pivot tables, and best practices for spreadsheet design.

Credits: 1
Room and Schedule: Stokes Hall 295S F 12:30PM-02:45PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN103701
Excel for Business Analytics
Beebe, Jonathan R
Summer 2024

This course provides an introduction to the use of Excel in business analytics. Topics include spreadsheet formatting, charts, basic and logical functions, and more advanced Excel tools like vlookups and pivot tables. In addition to learning how to use Excel as an analytical tool, the course will also discuss ways in which Excel can be used to effectively communicate business results and insights.

Credits: 1
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202101
Coding for Business
Sterpe, Peter J
Summer 2024
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN492101
Advanced Independent Study
VanderWerf, Pieter A
Summer 2024
Investigation of a topic under the direction of a faculty member. Student develops a paper with publication potential

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN770001
Operations Management
Parker, Delvon B
Summer 2024
Operations, like accounting, finance and marketing, is one of the primary functions of every organization. Operations managers transform human, physical and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm, converting broad policy directives into specific actions within the organization. Strong emphasis will be placed on the development and use of quantitative models to assist in decision making.

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer

Student Level: Graduate
Comments: None
Status: Offered

BZAN770301
Managerial Statistics
Boardman Liu, Linda
Summer 2024
This course teaches the tools and techniques of statistics most commonly used in business. The major topic areas include: populations, random variables, distributions, and sampling; parameter estimation; hypothesis testing; and simple and multiple regression. All topics are taught by application to actual business problems using original data. The course provides the tools students will need for their functional courses, such as finance and marketing, as well as for core courses in business analytics.STEM-designated

Credits: 0
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

BZAN770601
Data Analytics 1: Model Building
VanderWerf, Pieter A
Summer 2024

Machine Learning, big data, data mining, predictive analytics. These are what the course covers. They consist of the creation and use of mathematical computer models to predict important quantities and events with uncanny accuracy. As one book put it, "Who clicks, who buys, and who dies." The course teaches both the principles and the details of the major methods of making and applying these models to actual business problems. To produce models on the computer, students also learn the R coding language. This is the preferred high-level software for Machine Learning and statistical applications.STEM-designated

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

BZAN802201
Coding for Business
Sterpe, Peter J
Summer 2024
This is an introductory course in computer programming based on Python (a language suitable for all business and analytics programs). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers. MBA DA3 is a prerequisite. This course will give students the knowledge and confidence to apply coding to a business problem, and the ability to go from a problem statement to a repeatable set of steps for solving the problem in a general way. It will enable students who might not code professionally to work effectively with colleagues who do, and it will equip interested students to develop significant programs of their own.STEM-Designated.

Credits: 3
Room and Schedule: 245 Beacon Street Room 229 TuTh 06:30PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None

Frequency: Periodically in the Summer
Student Level: Graduate
Comments: None
Status: Offered

BZAN803101
Managing Projects
Boardman Liu, Linda
Summer 2024
This course takes a holistic approach to planning, organizing, and controlling projects. It looks at how projects are uniquely suited to support an organization's strategy in a fast-paced business environment. Topics include project life cycle, algorithms and statistical concepts underlying network planning models, managing risk and resource allocation. It emphasizes the use of effective interpersonal and communication skills to organize, plan, and control the project team.

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: BZAN7700
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN849701
Directed Readings
Evenchik, Leonard N
Summer 2024
Extensive reading under the direction of a faculty member. Student presents written critiques of the reading as well as comparisons between readings.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department

Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN849702
Directed Readings
Alev, Isil
Summer 2024
Extensive reading under the direction of a faculty member. Student presents written critiques of the reading as well as comparisons between readings.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

Business Analytics Courses: Fall 2024

BZAN102001
Seminar in Statistical Analysis & Data Management
Boardman Liu, Linda
Fall 2024
This seminar has a focus on problem solving and critical thinking, with an emphasis on data fluency, statistical literacy, and analytical thinking.

Credits: 1
Room and Schedule: Fulton Hall 245 F 09:00AM-10:15AM
Satisifies Core Requirement: None

Prerequisites: Permission of Department
Corequisites: BZAN1135
Cross-listed with: None
Frequency: Annually
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102101
Operations Management
Liu, Nan
Fall 2024
This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 245 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102102
Operations Management
Liu, Nan
Fall 2024

This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 245 TuTh 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102103
Operations Management
Parker, Delvon B
Fall 2024
This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 220 TuTh 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None

Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102104
Operations Management
Parker, Delvon B
Fall 2024
This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 245 TuTh 01:30PM-02:45PM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102106
Operations Management
Alev, Isil
Fall 2024

This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 260 MW 01:30PM-02:45PM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102107
Operations Management
Alev, Isil
Fall 2024
This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 260 MW 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None

Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102108
Operations Management
Xue, Mei
Fall 2024
This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 260 MW 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102109
Operations Management
Xue, Mei
Fall 2024

This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 260 MW 12:00 Noon-01:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN103701
Excel for Business Analytics
Beebe, Jonathan R
Fall 2024
This course provides an introduction to the use of Excel in business analytics. Topics include spreadsheet formatting, charts, basic and logical functions, and more advanced Excel tools like vlookups and pivot tables. In addition to learning how to use Excel as an analytical tool, the course will also discuss ways in which Excel can be used to effectively communicate business results and insights.

Credits: 1
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

BZAN103801
Excel for Business Analytics
Beebe, Jonathan R
Fall 2024
This course provides an introduction to the use of Excel in business analytics. Topics include spreadsheet formatting, charts, basic and logical functions, and more advanced Excel tools like lookup functions and pivot tables. In addition to learning how to use Excel as an analytical tool, the course will also discuss ways in which Excel can be used to effectively communicate business results and insights.This version of the course is specifically intended for non-CSOM students.

Credits: 1
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113501
Statistical Analysis
Boardman Liu, Linda
Fall 2024

This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 130 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113502
Statistical Analysis
Boardman Liu, Linda
Fall 2024
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 220 TuTh 10:30AM-11:45AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113503
Statistical Analysis
Boardman Liu, Linda
Fall 2024
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 220 TuTh 12:00 Noon-01:15PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113504
Statistical Analysis
Pan, Xiaohong
Fall 2024

This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 220 MW 09:00AM-10:15AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113505
Statistical Analysis
Wei, Lai
Fall 2024
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 220 MW 10:30AM-11:45AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113506
Statistical Analysis
Wei, Lai
Fall 2024
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 220 MW 12:00 Noon-01:15PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113507
Statistical Analysis
Wei, Lai
Fall 2024

This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 220 MW 01:30PM-02:45PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113508
Statistical Analysis
Pan, Xiaohong
Fall 2024

This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 245 MW 03:00PM-04:15PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113509
Statistical Analysis
Dept, Dept
Fall 2024
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 0
Room and Schedule: Fulton Hall 150 F 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113510
Statistical Analysis
Dept, Dept
Fall 2024

This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 0
Room and Schedule: Fulton Hall 150 F 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113511
Statistical Analysis
Dept, Dept
Fall 2024
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 0
Room and Schedule: Fulton Hall 150 F 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113512
Statistical Analysis
Dept, Dept
Fall 2024
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 0
Room and Schedule: Fulton Hall 150 F 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113513
Statistical Analysis
Dept, Dept
Fall 2024

This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 0
Room and Schedule: Fulton Hall 150 Th 06:00PM-06:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113701
Statistical Computing: Programming in R
Boardman Liu, Linda
Fall 2024
This course provides an introduction to statistical computing which includes setup of the R operating environment, programming in R, reading data in R, accessing R packages, writing R scripts, and creating R markdown documents. Examples are drawn from the variety of topics covered in business statistics.Students who have completed BZAN1135 or OPER1135/1136 are not eligible to take this course.

Credits: 1
Room and Schedule: Fulton Hall 310 Th 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Fall,Periodically in the Spring
Student Level: Undergraduate

Comments: None
Status: Offered

BZAN202101
Coding for Business
Jernigan, Stephanie A
Fall 2024
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 245 MW 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202102
Coding for Business
Jernigan, Stephanie A
Fall 2024
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 245 MW 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None

Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202103
Coding for Business
Jernigan, Stephanie A
Fall 2024
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 245 MW 12:00 Noon-01:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202104
Coding for Business
Pan, Xiaohong
Fall 2024
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 245 MW 01:30PM-02:45PM

Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202105
Coding for Business
Karpovsky, Anna
Fall 2024
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 245 TuTh 12:00 Noon-01:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202106
Coding for Business
Karpovsky, Anna
Fall 2024

An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 220 TuTh 01:30PM-02:45PM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202107
Coding for Business
Sterpe, Peter J
Fall 2024
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 245 TuTh 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202108

Coding for Business
Sterpe, Peter J
Fall 2024
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 245 TuTh 04:30PM-05:45PM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202201
SQL Module
Jernigan, Stephanie A
Fall 2024
This self-paced course covers the basics of Structured Query Language to retrieve data from a database. The course is designed only for those students placing out of BZAN 2021 because they've taken CSCI 1101.

Credits: 0
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN216501
Intro to Programming using Swift for iOS App Development
Gallaugher, John M
Fall 2024
In this fast-paced course, students will learn the Swift programming language and iOS app development skills. Using a "flipped-classroom" approach, the students take lectures in a series of online videos embedded in a web-based course/reference/quiz book, following along with videos as they learn programming concepts and build apps. Although this is a flipped class, expect a challenging course. Class is mandatory (this is NOT an online course) and class time will be used for additional exercises, concept review, and student questions. Students are required to bring a fully-charged Mac laptop to each class with the latest version of Apple's free Xcode software installed (make sure you have access to a Mac that meets these requirements before enrolling). The course assumes no programming background, but students with some experience will likely have an easier time. Students should be prepared to spend significant time each week on self-directed learning and regular programming projects. This course was formerly numbered: ISYS2160.

Credits: 3
Room and Schedule: Fulton Hall 415 M 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: UNAS2165
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN217501
Physical Computing - Interactive Art, Robotics, and Tech for Good
Gallaugher, John M
Fall 2024

Low-cost microcontrollers, sensors, and computing devices like the Raspberry Pi make it possible to create technical projects that humans can physically interact with. This course assumes no prior programming experience but will progress quickly through block-based MakeCode programming, then CircuitPython programming so that all students have coding knowledge necessary to create hardware projects. Students will purchase an amount of hardware and tools similar to the cost of books in a standard course, and we'll use these parts to build a series of projects that control lights, read sensors, produce sound, respond to touch and app control, capture camera images, and more. We'll also build a wheel-based robot, and students will have an opportunity to create and present several original projects and share their work with classmates. This course was formerly numbered: ISYS2170.

Credits: 3
Room and Schedule: Fulton Hall 415 W 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: UNAS2175
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN225501
Managing Projects
Coakley, Charles E
Fall 2024
This course takes a holistic approach to planning, organizing, and controlling projects. It looks at how projects are uniquely suited to support an organization's strategy in a fast-paced business environment. Topics include project life cycle, algorithms and statistical concepts underlying network planning models, managing risk, and resource allocation. Microsoft Project will be used as to support the planning and monitoring phases of project management. The conceptual part of this course is framed with an eye to the behavioral realities a manager faces and the psychology of managing project teams.

Credits: 3
Room and Schedule: Fulton Hall 220 W 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: None

Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN330701
Machine Learning and Artificial Intelligence
Ransbotham, Samuel, III
Fall 2024
Machine Learning and Artificial Intelligence won't replace managers in the near term, but managers who use ML and AI well will replace those who don't. Organizations now have too much data and insufficient time for managers to consume data only in spreadsheets. Instead, the future of work involves managers designing models that, for example, segment customers, forecast sales, schedule preventative maintenance, or predict markets. This course addresses both the technical and managerial aspects of these applications. Technically, students use Python to create, evaluate, and tune multiple practical models (e.g., classifiers, trees, neural networks) in supervised and unsupervised machine learning contexts. Managerially, this course examines how organizations create value through AI applications.

Credits: 3
Room and Schedule: Fulton Hall 260 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: Coding for Business (BZAN2021) or Python equivalent and Statistical Analysis (BZAN1135) or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN330702
Machine Learning and Artificial Intelligence
Ransbotham, Samuel, III
Fall 2024

Machine Learning and Artificial Intelligence won't replace managers in the near term, but managers who use ML and AI well will replace those who don't. Organizations now have too much data and insufficient time for managers to consume data only in spreadsheets. Instead, the future of work involves managers designing models that, for example, segment customers, forecast sales, schedule preventative maintenance, or predict markets. This course addresses both the technical and managerial aspects of these applications. Technically, students use Python to create, evaluate, and tune multiple practical models (e.g., classifiers, trees, neural networks) in supervised and unsupervised machine learning contexts. Managerially, this course examines how organizations create value through AI applications.

Credits: 3
Room and Schedule: Fulton Hall 260 TuTh 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: Coding for Business (BZAN2021) or Python equivalent and Statistical Analysis (BZAN1135) or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN330703
Machine Learning and Artificial Intelligence
Ransbotham, Samuel, III
Fall 2024
Machine Learning and Artificial Intelligence won't replace managers in the near term, but managers who use ML and AI well will replace those who don't. Organizations now have too much data and insufficient time for managers to consume data only in spreadsheets. Instead, the future of work involves managers designing models that, for example, segment customers, forecast sales, schedule preventative maintenance, or predict markets. This course addresses both the technical and managerial aspects of these applications. Technically, students use Python to create, evaluate, and tune multiple practical models (e.g., classifiers, trees, neural networks) in supervised and unsupervised machine learning contexts. Managerially, this course examines how organizations create value through AI applications.

Credits: 3
Room and Schedule: Fulton Hall 260 TuTh 12:00 Noon-01:15PM

Satisifies Core Requirement: None
Prerequisites: Coding for Business (BZAN2021) or Python equivalent and Statistical Analysis (BZAN1135) or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN331001
Sports Analytics
Neale, John J
Fall 2024
This course will introduce you to the field of sports analytics. We will apply quantitative methods from statistics and management science in a sports context. Our focus will be on-field analysis including player and team evaluation and game strategy. We will cover baseball, football, and basketball in depth with occasional references to other sports. We will also discuss concepts from behavioral economics and psychology that help explain the actions of players, coaches, and referees.

Credits: 3
Room and Schedule: Fulton Hall 150 W 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: A previous course in statistics (BZAN1135 OR BZAN1137), management science (BZAN2235 or BZAN6604), and Excel (BZAN1037 or ISYS1021) plus familiarity with the rules of baseball, football, and basketball.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN335001
Data Management for Analytics and Applications
Steffen, Sebastian

Fall 2024

This course provides a foundation in how databases and other data management technologies are used in business analytics and software applications. It will familiarize students with the process of collecting, storing, querying, and manipulating data, which comprise the core practices for building software applications and making data-driven decisions. This course was formerly numbered: ISYS3350

Credits: 3
Room and Schedule: Fulton Hall 220 MW 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: Prerequisite: BZAN2021 or proficiency with SQL and BZAN1135 or proficiency with R
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN335002
Data Management for Analytics and Applications
Steffen, Sebastian
Fall 2024

This course provides a foundation in how databases and other data management technologies are used in business analytics and software applications. It will familiarize students with the process of collecting, storing, querying, and manipulating data, which comprise the core practices for building software applications and making data-driven decisions. This course was formerly numbered: ISYS3350

Credits: 3
Room and Schedule: 245 Beacon Street Room 230 MW 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: Prerequisite: BZAN2021 or proficiency with SQL and BZAN1135 or proficiency with R
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

BZAN335003
Data Management for Analytics and Applications
Steffen, Sebastian
Fall 2024
This course provides a foundation in how databases and other data management technologies are used in business analytics and software applications. It will familiarize students with the process of collecting, storing, querying, and manipulating data, which comprise the core practices for building software applications and making data-driven decisions. This course was formerly numbered: ISYS3350

Credits: 3
Room and Schedule: 245 Beacon Street Room 230 MW 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: Prerequisite: BZAN2021 or proficiency with SQL and BZAN1135 or proficiency with R
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN337501
Operations Strategy and Consulting
Field, Joy M
Fall 2024

This course examines concepts, principles, and techniques for formulating, implementing, and evaluating operations strategy. It links strategic and tactical operational decisions to creation of a competitive advantage. Topics include operations strategy content and process, service operations, capacity and facilities strategy, supply chain management, process design and technology choice, and quality and productivity improvement. Case studies are used to illustrate concepts covered in the course. In collaboration with a consulting firm, students also learn how to develop and deliver a consulting presentation. These skills are applied to a mock consulting project.

Credits: 3
Room and Schedule: Fulton Hall 220 Th 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN337502
Operations Strategy and Consulting
Field, Joy M
Fall 2024

This course examines concepts, principles, and techniques for formulating, implementing, and evaluating operations strategy. It links strategic and tactical operational decisions to creation of a competitive advantage. Topics include operations strategy content and process, service operations, capacity and facilities strategy, supply chain management, process design and technology choice, and quality and productivity improvement. Case studies are used to illustrate concepts covered in the course. In collaboration with a consulting firm, students also learn how to develop and deliver a consulting presentation. These skills are applied to a mock consulting project.

Credits: 3
Room and Schedule: Fulton Hall 220 W 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None

Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN338501
Applied Statistical Modeling
Beebe, Jonathan R
Fall 2024
This course provides an intensive introduction to methodologies for applying statistical economic techniques to problems in a variety of disciplines. Techniques for both time series and cross-sectional data will be explored, and real data and cases will be used extensively.

Credits: 3
Room and Schedule: Fulton Hall 245 MW 04:30PM-05:45PM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN338502
Applied Statistical Modeling
Beebe, Jonathan R
Fall 2024
This course provides an intensive introduction to methodologies for applying statistical economic techniques to problems in a variety of disciplines. Techniques for both time series and cross-sectional data will be explored, and real data and cases will be used extensively.

Credits: 3
Room and Schedule: Fulton Hall 260 MW 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137

Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN425801
Systems Analysis and Design
Wyner, George M
Fall 2024
This course is required for Information Systems concentrators. The course studies information systems (IS) development including requirements, analysis, design and implementation phases and workflows. We investigate the roles of systems analysts; serving as intermediaries between users, managers, and implementers; and helping each to understand the needs and problems of others. The student will learn about major methods and tools used in the systems development process. Please note that Database Systems and Applications (BZAN3257/CSCI1157) must be completed prior to taking this course. This course was formerly numbered: ISYS4258.

Credits: 3
Room and Schedule: Fulton Hall 415 MW 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN2021 and either ISYS3257 or ISYS3350
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN492101
Advanced Independent Study
Kim, Do Yoon
Fall 2024

Investigation of a topic under the direction of a faculty member. Student develops a paper with publication potential

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN492103
Advanced Independent Study
Mc Gowan, Richard, SJ
Fall 2024
Investigation of a topic under the direction of a faculty member. Student develops a paper with publication potential

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN492104
Advanced Independent Study
VanderWerf, Pieter A
Fall 2024

Investigation of a topic under the direction of a faculty member. Student develops a paper with publication potential

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN660401
Management Science
Neale, John J
Fall 2024
This course provides an overview of the concepts and methods of management science. Sometimes referred to as prescriptive analytics or decision analytics, management science is a subset of the larger field of business analytics and focuses on the use of math models to make better business decisions. The primary goal of the course is to help you become a more skilled builder and consumer of models. The course will show you how to use Excel spreadsheets effectively for business analysis and introduce you to some of the more important analytic methods including optimization and simulation. These methods will be applied to problems arising in a variety of functional areas including operations, finance, and marketing.STEM-designated.

Credits: 3
Room and Schedule: Fulton Hall 150 M 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: A previous course in statistics and familiarity with Excel.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Both
Comments: None
Status: Offered

BZAN660402
Management Science
Neale, John J
Fall 2024
This course provides an overview of the concepts and methods of management science. Sometimes referred to as prescriptive analytics or decision analytics, management science is a subset of the larger field of business analytics and focuses on the use of math models to make better business decisions. The primary goal of the course is to help you become a more skilled builder and consumer of models. The course will show you how to use Excel spreadsheets effectively for business analysis and introduce you to some of the more important analytic methods including optimization and simulation. These methods will be applied to problems arising in a variety of functional areas including operations, finance, and marketing.STEM-designated.

Credits: 3
Room and Schedule: Fulton Hall 150 M 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: A previous course in statistics and familiarity with Excel.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Both
Comments: None
Status: Offered

BZAN663201
Supply Chain Management
Alev, Isil
Fall 2024

A supply chain consists of all parties involved in fulfilling a customer request, including suppliers, manufacturers, distributors, and retailers. Over the last decade, firms have started focusing on supply chain management as a source of competitive advantage. Theres a realization that no company can do better than its supply chain. This course will provide students with an overview of the concepts, models, and methods that are important for the design and operation of modern, global supply chains. Classes are hands-on, with many opportunities to analyze cases and play simulation games.STEM-designated.

Credits: 3
Room and Schedule: Fulton Hall 245 M 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: Students should take either BZAN1021 (Undergraduate) or BZAN7700/7720 (Graduate) prior to this course.
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Both
Comments: None
Status: Offered

BZAN665501
Introduction to Blockchain and its Business Applications
Cathcart, Graham T
Fall 2024

The objective of this course is to introduce the business of blockchain--a technology that has the potential to drastically alter the way value is stored, exchanged, shared, and distributed. It is the backbone of the next iteration of the Internet: Web 3.0 or The Internet of Value. This course does not require any technical knowledge or prior knowledge of the subject, and is designed to give students a foundational knowledge of blockchain technology and a familiarity with the basic principles that govern blockchain protocols. Students will obtain a fluency in the terms and concepts required to understand how this powerful technology works. Most importantly, students will study real-world applications of the technology, which range far beyond blockchain's original use case (cryptocurrency) and hear from a number of influential guest speakers who are using or investing in blockchain technology at their companies today. Students who complete the course will understand blockchain and cryptocurrency's game-changing potential, be able to separate fact from hype, and be effective leaders in the space.STEM-designated. This course was formerly numbered: ISYS6655

Credits: 3
Room and Schedule: Th 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

BZAN770001
Operations Management
Parker, Delvon B
Fall 2024

Operations, like accounting, finance and marketing, is one of the primary functions of every organization. Operations managers transform human, physical and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm, converting broad policy directives into specific actions within the organization. Strong emphasis will be placed on the development and use of quantitative models to assist in decision making.

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

BZAN770002
Operations Management
Liu, Nan
Fall 2024
Operations, like accounting, finance and marketing, is one of the primary functions of every organization. Operations managers transform human, physical and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm, converting broad policy directives into specific actions within the organization. Strong emphasis will be placed on the development and use of quantitative models to assist in decision making.

Credits: 3
Room and Schedule: Fulton Hall 145 Tu 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None

Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

BZAN770301
Managerial Statistics
Boardman Liu, Linda
Fall 2024
This course teaches the tools and techniques of statistics most commonly used in business. The major topic areas include: populations, random variables, distributions, and sampling; parameter estimation; hypothesis testing; and simple and multiple regression. All topics are taught by application to actual business problems using original data. The course provides the tools students will need for their functional courses, such as finance and marketing, as well as for core courses in business analytics.STEM-designated

Credits: 0
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

BZAN770302
Managerial Statistics
Boardman Liu, Linda
Fall 2024

This course teaches the tools and techniques of statistics most commonly used in business. The major topic areas include: populations, random variables, distributions, and sampling; parameter estimation; hypothesis testing; and simple and multiple regression. All topics are taught by application to actual business problems using original data. The course provides the tools students will need for their functional courses, such as finance and marketing, as well as for core courses in business analytics.STEM-designated

Credits: 0
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

BZAN770602
Data Analytics 1: Model Building
VanderWerf, Pieter A
Fall 2024
Machine Learning, big data, data mining, predictive analytics. These are what the course covers. They consist of the creation and use of mathematical computer models to predict important quantities and events with uncanny accuracy. As one book put it, "Who clicks, who buys, and who dies." The course teaches both the principles and the details of the major methods of making and applying these models to actual business problems. To produce models on the computer, students also learn the R coding language. This is the preferred high-level software for Machine Learning and statistical applications.STEM-designated

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate

Comments: None
Status: Offered

BZAN770603
Data Analytics 1: Model Building
VanderWerf, Pieter A
Fall 2024
Machine Learning, big data, data mining, predictive analytics. These are what the course covers. They consist of the creation and use of mathematical computer models to predict important quantities and events with uncanny accuracy. As one book put it, "Who clicks, who buys, and who dies." The course teaches both the principles and the details of the major methods of making and applying these models to actual business problems. To produce models on the computer, students also learn the R coding language. This is the preferred high-level software for Machine Learning and statistical applications.STEM-designated

Credits: 3
Room and Schedule: Fulton Hall 245 W 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

BZAN770701
Data Analytics 2: Data Management for Analytics
Evenchik, Leonard N
Fall 2024

Information Technology (IT) and Data Analytics now permeate the strategy, structure, and operations of modern enterprises, and new business practices have led to an orders of magnitude increase in the amount of data available for analysis and decision-making. It is essential that managers develop a deep understanding of how data can be structured, captured, and queried in order to support operations, decision-making, and strategic insight. At the same time, managers must become fluent with IT so that they can promote innovative strategic initiatives that are increasingly data and IT dependent. In this course, students will develop an understanding of IT theory and practice, study key emerging technologies, and develop their ability to identify new opportunities made possible by IT. This course will also provide students with a deep understanding of data and analytics by exploring how business processes are analyzed, data is modeled (using entity relationship diagrams), databases are designed, and data is queried using SQL. This combination of theory and practice will allow students to develop their ability to identify and take advantage of the new opportunities now made possible by data analytics and Information Technology. The on-campus section of this course (BZAN7707) will meet weekly on campus. Please note that the online asynchronous section of this course will also include two or three synchronous web conferences during the semester. Please review the course syllabus for the schedule for these web conferences, or contact the instructor. STEM-designated This course was formerly numbered: ISYS7700

Credits: 3
Room and Schedule: Fulton Hall 130 W 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN770702
Data Analytics 2: Data Management for Analytics
Evenchik, Leonard N
Fall 2024

Information Technology (IT) and Data Analytics now permeate the strategy, structure, and operations of modern enterprises, and new business practices have led to an orders of magnitude increase in the amount of data available for analysis and decision-making. It is essential that managers develop a deep understanding of how data can be structured, captured, and queried in order to support operations, decision-making, and strategic insight. At the same time, managers must become fluent with IT so that they can promote innovative strategic initiatives that are increasingly data and IT dependent. In this course, students will develop an understanding of IT theory and practice, study key emerging technologies, and develop their ability to identify new opportunities made possible by IT. This course will also provide students with a deep understanding of data and analytics by exploring how business processes are analyzed, data is modeled (using entity relationship diagrams), databases are designed, and data is queried using SQL. This combination of theory and practice will allow students to develop their ability to identify and take advantage of the new opportunities now made possible by data analytics and Information Technology. The on-campus section of this course (BZAN7707) will meet weekly on campus. Please note that the online asynchronous section of this course will also include two or three synchronous web conferences during the semester. Please review the course syllabus for the schedule for these web conferences, or contact the instructor. STEM-designated This course was formerly numbered: ISYS7700

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN770801
Data Analytics 3: In Practice
Beebe, Jonathan R
Fall 2024

Modern information systems now generate massive volumes of data. Organizations everywhere struggle to aggregate, analyze, and monetize the growing deluge of data. Business Analytics capitalizes on this data by combining statistical and quantitative analysis, explanatory and predictive modeling, and fact-based management. Managers can explore patterns, predict future trends and develop proactive, knowledge-driven decisions that affect all parts of modern organizations. This course provides students with a pragmatic familiarity with the capabilities and limitations of emerging analytics techniques, an introduction to Python, an overview of methods and tools, and a core understanding required to be an intelligent manager, designer, and consumer of analytics models. STEM-designated This course was formerly numbered: ISYS7705

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: BZAN7703 and BZAN7706
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN770802
Data Analytics 3: In Practice
Beebe, Jonathan R
Fall 2024

Modern information systems now generate massive volumes of data. Organizations everywhere struggle to aggregate, analyze, and monetize the growing deluge of data. Business Analytics capitalizes on this data by combining statistical and quantitative analysis, explanatory and predictive modeling, and fact-based management. Managers can explore patterns, predict future trends and develop proactive, knowledge-driven decisions that affect all parts of modern organizations. This course provides students with a pragmatic familiarity with the capabilities and limitations of emerging analytics techniques, an introduction to Python, an overview of methods and tools, and a core understanding required to be an intelligent manager, designer, and consumer of analytics models. STEM-designated This course was formerly numbered: ISYS7705

Credits: 3
Room and Schedule: Fulton Hall 250 W 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: BZAN7703 and BZAN7706
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN771601
Data Analytics 1: Model Building
Chod, Jiri
Fall 2024
Machine Learning, big data, data mining, predictive analytics. These are what the course covers. They consist of the creation and use of mathematical computer models to predict important quantities and events with uncanny accuracy. As one book put it, "Who clicks, who buys, and who dies." The course teaches both the principles and the details of the major methods of making and applying these models to actual business problems. To produce models on the computer, students also learn the R coding language. This is the preferred high-level software for Machine Learning and statistical applications.STEM-designated

Credits: 2
Room and Schedule: Fulton Hall 150 MW 01:45PM-03:45PM
Satisifies Core Requirement: None
Prerequisites: BZAN7703

Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

BZAN771602
Data Analytics 1: Model Building
Chod, Jiri
Fall 2024
Machine Learning, big data, data mining, predictive analytics. These are what the course covers. They consist of the creation and use of mathematical computer models to predict important quantities and events with uncanny accuracy. As one book put it, "Who clicks, who buys, and who dies." The course teaches both the principles and the details of the major methods of making and applying these models to actual business problems. To produce models on the computer, students also learn the R coding language. This is the preferred high-level software for Machine Learning and statistical applications.STEM-designated

Credits: 2
Room and Schedule: Fulton Hall 150 MW 11:00AM-01:00PM
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

BZAN771701
Data Analytics 2: Data Management for Analytics
Wyner, George M
Fall 2024

Information Technology (IT) and Data Analytics now permeate the strategy, structure, and operations of modern enterprises, and new business practices have led to an orders of magnitude increase in the amount of data available for analysis and decision-making. It is essential that managers develop a deep understanding of how data can be structured, captured, and queried in order to support operations, decision-making, and strategic insight. At the same time, managers must become fluent with IT so that they can promote innovative strategic initiatives that are increasingly data and IT dependent. In this course, students will develop an understanding of IT theory and practice, study key emerging technologies, and develop their ability to identify new opportunities made possible by IT. This course will also provide students with a deep understanding of data and analytics by exploring how business processes are analyzed, data is modeled (using entity relationship diagrams), databases are designed, and data is queried using SQL. This combination of theory and practice will allow students to develop their ability to identify and take advantage of the new opportunities now made possible by data analytics and Information Technology.The on-campus section of this course (ISYS7700) will meet weekly on campus. Please note that the online asynchronous section of this course will also include two or three synchronous web conferences during the semester. Please review the course syllabus for the schedule for these web conferences, or contact the instructor.STEM-designated

Credits: 2
Room and Schedule: Fulton Hall 130 TuTh 01:45PM-03:45PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN771702
Data Analytics 2: Data Management for Analytics
Wyner, George M
Fall 2024

Information Technology (IT) and Data Analytics now permeate the strategy, structure, and operations of modern enterprises, and new business practices have led to an orders of magnitude increase in the amount of data available for analysis and decision-making. It is essential that managers develop a deep understanding of how data can be structured, captured, and queried in order to support operations, decision-making, and strategic insight. At the same time, managers must become fluent with IT so that they can promote innovative strategic initiatives that are increasingly data and IT dependent. In this course, students will develop an understanding of IT theory and practice, study key emerging technologies, and develop their ability to identify new opportunities made possible by IT. This course will also provide students with a deep understanding of data and analytics by exploring how business processes are analyzed, data is modeled (using entity relationship diagrams), databases are designed, and data is queried using SQL. This combination of theory and practice will allow students to develop their ability to identify and take advantage of the new opportunities now made possible by data analytics and Information Technology.The on-campus section of this course (ISYS7700) will meet weekly on campus. Please note that the online asynchronous section of this course will also include two or three synchronous web conferences during the semester. Please review the course syllabus for the schedule for these web conferences, or contact the instructor.STEM-designated

Credits: 2
Room and Schedule: Fulton Hall 130 TuTh 11:00AM-01:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN806701
Machine Learning & Artificial Intelligence
VanderWerf, Pieter A
Fall 2024

This course builds on Data Analytics 1 to provide students with advanced tools and skills forMachine learning (ML) in business practice. On the technical side, the course content extends to a wider range of algorithms as well as advanced methods for data sampling and model building and evaluation. More depth in application comes from student reports on current events in Machine Learning, and a course project that involves complete model construction and analysis for an actual business problem with an actual corporate data set. The course assumes the student has experience with the basic machine learning algorithms and the R codinglanguage.STEM-designated.

Credits: 3
Room and Schedule: Fulton Hall 245 Tu 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: Prior to this course, students should have completed BZAN7703 (Managerial Statistics) and either BZAN7706 or BZAN7716 (DA1: Model Building).
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN816501
Intro to Programming using Swift for iOS App Development
Gallaugher, John M
Fall 2024

In this fast-paced course, students will learn the Swift programming language and iOS app development skills. Using a "flipped-classroom" approach, the students take lectures in a series of online videos embedded in a web-based course/reference/quiz book, following along with videos as they learn programming concepts and build apps. Although this is a flipped class, expect a challenging course. Class is mandatory (this is NOT an online course) and class time will be used for additional exercises, concept review, and student questions. Students are required to bring a fully-charged Mac laptop to each class with the latest version of Apple's free Xcode software installed (make sure you have access to a Mac that meets these requirements before enrolling). The course assumes no programming background, but students with some experience will likely have an easier time. Students should be prepared to spend significant time each week on self-directed learning and regular programming projects. This course was formerly numbered: ISYS2160.

Credits: 3
Room and Schedule: Fulton Hall 415 M 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN817501
Physical Computing - Interactive Art, Robotics, and Tech for Good
Gallaugher, John M
Fall 2024

Low-cost microcontrollers, sensors, and computing devices like the Raspberry Pi make it possible to create technical projects that humans can physically interact with. This course assumes no prior programming experience but will progress quickly through block-based MakeCode programming, then CircuitPython programming so that all students have coding knowledge necessary to create hardware projects. Students will purchase an amount of hardware and tools similar to the cost of books in a standard course, and we'll use these parts to build a series of projects that control lights, read sensors, produce sound, respond to touch and app control, capture camera images, and more. We'll also build a wheel-based robot, and students will have an opportunity to create and present several original projects and share their work with classmates. This course was formerly numbered: ISYS2170.

Credits: 3
Room and Schedule: Fulton Hall 415 W 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Graduate
Comments: None
Status: Offered

BZAN825801
Business Analysis Survival Guide
Sterpe, Peter J
Fall 2024
This course teaches the why and how of "business analysis" those activities an organization performs to ensure the success of an IT/software project. Students will learn how to consider the build-or-buy decision. We'll explore effective ways to capture and communicate requirements, including how to construct a visually appealing wireframe prototype. We'll cherry pick the most useful techniques from the Unified Modeling Language (UML), we'll demystify Agile and Scrum, we'll explore at a high level how applications are constructed, and we'll equip you to set any IT/software project on a successful path. This is not a coding course, and no coding experience is required. STEM-Designated.

Credits: 3
Room and Schedule: Fulton Hall 220 Tu 07:00PM-09:30PM
Satisifies Core Requirement: None

Prerequisites: ISYS7700 or ISYS7720
Corequisites: None
Cross-listed with: None
Frequency: Annually
Student Level: Graduate
Comments: None
Status: Offered

BZAN844501
Data Visualization
Karpovsky, Anna
Fall 2024
This course covers foundations of data visualization and best practices to help students effectively analyze data and present their insights clearly in a way that will engage their audience. The course provides discussions and presentations on topics such as visual perception, the various chart types and when to use them, the effective use of colors, typography, maps, and other visualization techniques for incorporating analytics and storytelling, and teaches through many examples of compare and contrast. The conceptual discussions will be integrated with hands-on experience using Tableau. STEM-designated. This course was formerly numbered: ISYS8445

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Graduate
Comments: None
Status: Offered

BZAN849701
Directed Readings
Alev, Isil
Fall 2024

Extensive reading under the direction of a faculty member. Student presents written critiques of the reading as well as comparisons between readings.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN849702
Directed Readings
Field, Joy M
Fall 2024
Extensive reading under the direction of a faculty member. Student presents written critiques of the reading as well as comparisons between readings.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN849801
Directed Research I
Graves, Samuel B
Fall 2024

Investigation of a topic under the direction of a faculty member. Student develops a paper with publication potential.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: With permission of the department chairperson. or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN881001
Sports Analytics
Parker, Delvon B
Fall 2024
This course will introduce you to the field of sports analytics. We will apply quantitative methods from statistics and management science in a sports context. Our focus will be on-field analysis including player and team evaluation and game strategy. We will cover baseball, football, and basketball in depth with occasional references to other sports. We will also discuss concepts from behavioral economics and psychology that help explain the actions of players, coaches, and referees.STEM-designated

Credits: 3
Room and Schedule: Fulton Hall 220 Th 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Graduate
Comments: None
Status: Offered

Business Analytics Courses: Spring 2025

BZAN102101
Operations Management
Mitrofanov, Dmitry
Spring 2025
This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 220 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102102
Operations Management
Beebe, Jonathan R
Spring 2025

This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 415 TuTh 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102103
Operations Management
Xue, Mei
Spring 2025
This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 453 MW 12:00 Noon-01:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None

Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102105
Operations Management
Xue, Mei
Spring 2025
This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 453 MW 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102106
Operations Management
Mitrofanov, Dmitry
Spring 2025

This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 220 TuTh 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN102107
Operations Management
Mitrofanov, Dmitry
Spring 2025
This course is an introduction to operations management. Operations, like accounting, finance, marketing, and human resources, is one of the primary functions of every organization. Operations managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision making.

Credits: 3
Room and Schedule: Fulton Hall 220 TuTh 12:00 Noon-01:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None

Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN103701
Excel for Business Analytics
Beebe, Jonathan R
Spring 2025
This course provides an introduction to the use of Excel in business analytics. Topics include spreadsheet formatting, charts, basic and logical functions, and more advanced Excel tools like vlookups and pivot tables. In addition to learning how to use Excel as an analytical tool, the course will also discuss ways in which Excel can be used to effectively communicate business results and insights.

Credits: 1
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN103801
Excel for Business Analytics
Beebe, Jonathan R
Spring 2025

This course provides an introduction to the use of Excel in business analytics. Topics include spreadsheet formatting, charts, basic and logical functions, and more advanced Excel tools like lookup functions and pivot tables. In addition to learning how to use Excel as an analytical tool, the course will also discuss ways in which Excel can be used to effectively communicate business results and insights.This version of the course is specifically intended for non-CSOM students.

Credits: 1
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113501
Statistical Analysis
Boardman Liu, Linda
Spring 2025
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 245 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

BZAN113502
Statistical Analysis
Boardman Liu, Linda
Spring 2025
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 245 TuTh 10:30AM-11:45AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113503
Statistical Analysis
Boardman Liu, Linda
Spring 2025

This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 245 TuTh 12:00 Noon-01:15PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113504
Statistical Analysis
Chen, Daniel
Spring 2025
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 245 TuTh 01:30PM-02:45PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113505
Statistical Analysis
Chen, Daniel
Spring 2025
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 245 TuTh 03:00PM-04:15PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113506
Statistical Analysis
Dizdarer, Tolga
Spring 2025

This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 220 MW 10:30AM-11:45AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113507
Statistical Analysis
Dizdarer, Tolga
Spring 2025
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 220 MW 12:00 Noon-01:15PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113508
Statistical Analysis
Dizdarer, Tolga
Spring 2025
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 3
Room and Schedule: Fulton Hall 220 MW 01:30PM-02:45PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113509
Statistical Analysis
Dept, Dept
Spring 2025

This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 0
Room and Schedule: Fulton Hall 150 F 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113510
Statistical Analysis
Dept, Dept
Spring 2025
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 0
Room and Schedule: Fulton Hall 150 F 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113511
Statistical Analysis
Dept, Dept
Spring 2025
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 0
Room and Schedule: Fulton Hall 150 F 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113512
Statistical Analysis
Dept, Dept
Spring 2025

This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 0
Room and Schedule: Fulton Hall 150 F 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113513
Statistical Analysis
Dept, Dept
Spring 2025
This course provides an introduction to statistics with a focus on the analytical tools that are applicable to management practice and decision making. Statistical topics include descriptive statistics, probability, random variables, sampling distributions, estimation of parameters, hypothesis testing, and regression. Data handling and management skills are developed through extensive use of modern statistical programming tools and real data sets. Students will gain an understanding of statistical methods, the ability to formulate business questions as statistical models to test, and critical thinking skills to evaluate the results of those models.

Credits: 0
Room and Schedule: Fulton Hall 150 Th 06:00PM-06:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113701
Statistical Computing: Programming in R
Boardman Liu, Linda
Spring 2025
This course provides an introduction to statistical computing which includes setup of the R operating environment, programming in R, reading data in R, accessing R packages, writing R scripts, and creating R markdown documents. Examples are drawn from the variety of topics covered in business statistics.Students who have completed BZAN1135 or OPER1135/1136 are not eligible to take this course.

Credits: 1
Room and Schedule: Fulton Hall 220 F 01:00PM-02:15PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Fall,Periodically in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN113702
Statistical Computing: Programming in R
Boardman Liu, Linda
Spring 2025
This course provides an introduction to statistical computing which includes setup of the R operating environment, programming in R, reading data in R, accessing R packages, writing R scripts, and creating R markdown documents. Examples are drawn from the variety of topics covered in business statistics.Students who have completed BZAN1135 or OPER1135/1136 are not eligible to take this course.

Credits: 1
Room and Schedule: 245 Beacon Street Room 204 Tu 03:00PM-04:15PM

Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Fall,Periodically in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202101
Coding for Business
Karpovsky, Anna
Spring 2025
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 245 MW 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202102
Coding for Business
Karpovsky, Anna
Spring 2025

An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 245 MW 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202103
Coding for Business
Sterpe, Peter J
Spring 2025
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 423 TuTh 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202104

Coding for Business
Sterpe, Peter J
Spring 2025
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 423 TuTh 01:30PM-02:45PM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202105
Coding for Business
Jernigan, Stephanie A
Spring 2025
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 425 MW 01:30PM-02:45PM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202106
Coding for Business
Pan, Xiaohong
Spring 2025
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 245 MW 12:00 Noon-01:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202107
Coding for Business
Pan, Xiaohong
Spring 2025
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 245 MW 01:30PM-02:45PM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

BZAN202108
Coding for Business
Pan, Xiaohong
Spring 2025
An introductory course in coding based on Python (a language suitable for all business and analytics programs) and SQL (Structured Query Language--the main language for working with databases). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers.

Credits: 3
Room and Schedule: Fulton Hall 245 MW 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN202201
SQL Module
Jernigan, Stephanie A
Spring 2025
This self-paced course covers the basics of Structured Query Language to retrieve data from a database. The course is designed only for those students placing out of BZAN 2021 because they've taken CSCI 1101.

Credits: 0
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None

Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN216501
Intro to Programming using Swift for iOS App Development
Gallaugher, John M
Spring 2025
In this fast-paced course, students will learn the Swift programming language and iOS app development skills. Using a "flipped-classroom" approach, the students take lectures in a series of online videos embedded in a web-based course/reference/quiz book, following along with videos as they learn programming concepts and build apps. Although this is a flipped class, expect a challenging course. Class is mandatory (this is NOT an online course) and class time will be used for additional exercises, concept review, and student questions. Students are required to bring a fully-charged Mac laptop to each class with the latest version of Apple's free Xcode software installed (make sure you have access to a Mac that meets these requirements before enrolling). The course assumes no programming background, but students with some experience will likely have an easier time. Students should be prepared to spend significant time each week on self-directed learning and regular programming projects. This course was formerly numbered: ISYS2160.

Credits: 3
Room and Schedule: Fulton Hall 235 M 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: UNAS2165
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN217501
Physical Computing - Interactive Art, Robotics, and Tech for Good
Gallaugher, John M
Spring 2025

Low-cost microcontrollers, sensors, and computing devices like the Raspberry Pi make it possible to create technical projects that humans can physically interact with. This course assumes no prior programming experience but will progress quickly through block-based MakeCode programming, then CircuitPython programming so that all students have coding knowledge necessary to create hardware projects. Students will purchase an amount of hardware and tools similar to the cost of books in a standard course, and we'll use these parts to build a series of projects that control lights, read sensors, produce sound, respond to touch and app control, capture camera images, and more. We'll also build a wheel-based robot, and students will have an opportunity to create and present several original projects and share their work with classmates. This course was formerly numbered: ISYS2170.

Credits: 3
Room and Schedule: Fulton Hall 415 W 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: UNAS2175
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN225501
Managing Projects
Coakley, Charles E
Spring 2025
This course takes a holistic approach to planning, organizing, and controlling projects. It looks at how projects are uniquely suited to support an organization's strategy in a fast-paced business environment. Topics include project life cycle, algorithms and statistical concepts underlying network planning models, managing risk, and resource allocation. Microsoft Project will be used as to support the planning and monitoring phases of project management. The conceptual part of this course is framed with an eye to the behavioral realities a manager faces and the psychology of managing project teams.

Credits: 3
Room and Schedule: Fulton Hall 245 W 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: None

Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN330701
Machine Learning and Artificial Intelligence
Kim, Do Yoon
Spring 2025
Machine Learning and Artificial Intelligence won't replace managers in the near term, but managers who use ML and AI well will replace those who don't. Organizations now have too much data and insufficient time for managers to consume data only in spreadsheets. Instead, the future of work involves managers designing models that, for example, segment customers, forecast sales, schedule preventative maintenance, or predict markets. This course addresses both the technical and managerial aspects of these applications. Technically, students use Python to create, evaluate, and tune multiple practical models (e.g., classifiers, trees, neural networks) in supervised and unsupervised machine learning contexts. Managerially, this course examines how organizations create value through AI applications.

Credits: 3
Room and Schedule: 245 Beacon Street Room 125 MW 12:00 Noon-01:15PM
Satisifies Core Requirement: None
Prerequisites: Coding for Business (BZAN2021) or Python equivalent and Statistical Analysis (BZAN1135) or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN330702
Machine Learning and Artificial Intelligence
Kim, Do Yoon
Spring 2025

Machine Learning and Artificial Intelligence won't replace managers in the near term, but managers who use ML and AI well will replace those who don't. Organizations now have too much data and insufficient time for managers to consume data only in spreadsheets. Instead, the future of work involves managers designing models that, for example, segment customers, forecast sales, schedule preventative maintenance, or predict markets. This course addresses both the technical and managerial aspects of these applications. Technically, students use Python to create, evaluate, and tune multiple practical models (e.g., classifiers, trees, neural networks) in supervised and unsupervised machine learning contexts. Managerially, this course examines how organizations create value through AI applications.

Credits: 3
Room and Schedule: 245 Beacon Street Room 125 MW 01:30PM-02:45PM
Satisifies Core Requirement: None
Prerequisites: Coding for Business (BZAN2021) or Python equivalent and Statistical Analysis (BZAN1135) or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN330703
Machine Learning and Artificial Intelligence
Kim, Do Yoon
Spring 2025
Machine Learning and Artificial Intelligence won't replace managers in the near term, but managers who use ML and AI well will replace those who don't. Organizations now have too much data and insufficient time for managers to consume data only in spreadsheets. Instead, the future of work involves managers designing models that, for example, segment customers, forecast sales, schedule preventative maintenance, or predict markets. This course addresses both the technical and managerial aspects of these applications. Technically, students use Python to create, evaluate, and tune multiple practical models (e.g., classifiers, trees, neural networks) in supervised and unsupervised machine learning contexts. Managerially, this course examines how organizations create value through AI applications.

Credits: 3
Room and Schedule: Fulton Hall 220 MW 09:00AM-10:15AM

Satisifies Core Requirement: None
Prerequisites: Coding for Business (BZAN2021) or Python equivalent and Statistical Analysis (BZAN1135) or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN331001
Sports Analytics
Neale, John J
Spring 2025
This course will introduce you to the field of sports analytics. We will apply quantitative methods from statistics and management science in a sports context. Our focus will be on-field analysis including player and team evaluation and game strategy. We will cover baseball, football, and basketball in depth with occasional references to other sports. We will also discuss concepts from behavioral economics and psychology that help explain the actions of players, coaches, and referees.

Credits: 3
Room and Schedule: Fulton Hall 150 Tu 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: A previous course in statistics (BZAN1135 OR BZAN1137), management science (BZAN2235 or BZAN6604), and Excel (BZAN1037 or ISYS1021) plus familiarity with the rules of baseball, football, and basketball.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN338501
Applied Statistical Modeling
Jernigan, Stephanie A

Spring 2025

This course provides an intensive introduction to methodologies for applying statistical economic techniques to problems in a variety of disciplines. Techniques for both time series and cross-sectional data will be explored, and real data and cases will be used extensively.

Credits: 3
Room and Schedule: Fulton Hall 145 MW 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN338502
Applied Statistical Modeling
Jernigan, Stephanie A
Spring 2025

This course provides an intensive introduction to methodologies for applying statistical economic techniques to problems in a variety of disciplines. Techniques for both time series and cross-sectional data will be explored, and real data and cases will be used extensively.

Credits: 3
Room and Schedule: Fulton Hall 145 MW 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: BZAN1135 or BZAN1137
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN344501
Data Visualization

Karpovsky, Anna
Spring 2025
This course covers foundations of data visualization and best practices to help students effectively analyze data and present their insights clearly in a way that will engage their audience. The course provides discussions and presentations on topics such as visual perception, the various chart types and when to use them, the effective use of colors, typography, maps, and other visualization techniques for incorporating analytics and storytelling, and teaches through many examples of compare and contrast. The conceptual discussions will be integrated with hands-on experience using Tableau.This course was formerly numbered: ISYS3445

Credits: 3
Room and Schedule: Fulton Hall 415 MW 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN425801
Systems Analysis and Design
Sterpe, Peter J
Spring 2025
This course is required for Information Systems concentrators. The course studies information systems (IS) development including requirements, analysis, design and implementation phases and workflows. We investigate the roles of systems analysts; serving as intermediaries between users, managers, and implementers; and helping each to understand the needs and problems of others. The student will learn about major methods and tools used in the systems development process. Please note that Database Systems and Applications (BZAN3257/CSCI1157) must be completed prior to taking this course. This course was formerly numbered: ISYS4258.

Credits: 3
Room and Schedule: Fulton Hall 423 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: None

Prerequisites: BZAN2021 and either ISYS3257 or ISYS3350
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN492101
Advanced Independent Study
Steffen, Sebastian
Spring 2025
Investigation of a topic under the direction of a faculty member. Student develops a paper with publication potential

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN492102
Advanced Independent Study
Dept, Dept
Spring 2025
Investigation of a topic under the direction of a faculty member. Student develops a paper with publication potential

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department

Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN492103
Advanced Independent Study
Dept, Dept
Spring 2025
Investigation of a topic under the direction of a faculty member. Student develops a paper with publication potential

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

BZAN660401
Management Science
Neale, John J
Spring 2025

This course provides an overview of the concepts and methods of management science. Sometimes referred to as prescriptive analytics or decision analytics, management science is a subset of the larger field of business analytics and focuses on the use of math models to make better business decisions. The primary goal of the course is to help you become a more skilled builder and consumer of models. The course will show you how to use Excel spreadsheets effectively for business analysis and introduce you to some of the more important analytic methods including optimization and simulation. These methods will be applied to problems arising in a variety of functional areas including operations, finance, and marketing.STEM-designated.

Credits: 3
Room and Schedule: Fulton Hall 150 W 01:30PM-04:00PM
Satisifies Core Requirement: None
Prerequisites: A previous course in statistics and familiarity with Excel.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Both
Comments: None
Status: Offered

BZAN660402
Management Science
Neale, John J
Spring 2025
This course provides an overview of the concepts and methods of management science. Sometimes referred to as prescriptive analytics or decision analytics, management science is a subset of the larger field of business analytics and focuses on the use of math models to make better business decisions. The primary goal of the course is to help you become a more skilled builder and consumer of models. The course will show you how to use Excel spreadsheets effectively for business analysis and introduce you to some of the more important analytic methods including optimization and simulation. These methods will be applied to problems arising in a variety of functional areas including operations, finance, and marketing.STEM-designated.

Credits: 3
Room and Schedule: Fulton Hall 150 W 04:30PM-06:50PM
Satisifies Core Requirement: None

Prerequisites: A previous course in statistics and familiarity with Excel.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Both
Comments: None
Status: Offered

BZAN661201
Forecasting for Business Analytics
Ulusoy, Veysel
Spring 2025
The theory and practice of applied time series analysis will be explored. First the different segments (trend, seasonality, cyclical, and irregular) of a time series will be analyzed by examining the Autocorrelation functions (ACF) and Partial Autocorrelation functions (PACF). The various types of time series models include linear regression, panel regression, seasonal decomposition, exponential smoothing, and ARIMA modeling as well as combining models. In short, this course will equip you with tools necessary to construct forecasts to inform business decisions. As such, the focus of the course will not be only on tools, but also on how they are used in business. STEM-designated

Credits: 3
Room and Schedule: Fulton Hall 220 W 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Annually
Student Level: Both
Comments: None
Status: Offered

BZAN665501
Introduction to Blockchain and its Business Applications
Evenchik, Leonard N
Spring 2025

The objective of this course is to introduce the business of blockchain--a technology that has the potential to drastically alter the way value is stored, exchanged, shared, and distributed. It is the backbone of the next iteration of the Internet: Web 3.0 or The Internet of Value. This course does not require any technical knowledge or prior knowledge of the subject, and is designed to give students a foundational knowledge of blockchain technology and a familiarity with the basic principles that govern blockchain protocols. Students will obtain a fluency in the terms and concepts required to understand how this powerful technology works. Most importantly, students will study real-world applications of the technology, which range far beyond blockchain's original use case (cryptocurrency) and hear from a number of influential guest speakers who are using or investing in blockchain technology at their companies today. Students who complete the course will understand blockchain and cryptocurrency's game-changing potential, be able to separate fact from hype, and be effective leaders in the space.STEM-designated. This course was formerly numbered: ISYS6655

Credits: 3
Room and Schedule: Fulton Hall 130 Th 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

BZAN770001
Operations Management
Alev, Isil
Spring 2025

Operations, like accounting, finance and marketing, is one of the primary functions of every organization. Operations managers transform human, physical and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm, converting broad policy directives into specific actions within the organization. Strong emphasis will be placed on the development and use of quantitative models to assist in decision making.

Credits: 3
Room and Schedule: Fulton Hall 415 W 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

BZAN770002
Operations Management
Parker, Delvon B
Spring 2025

Operations, like accounting, finance and marketing, is one of the primary functions of every organization. Operations managers transform human, physical and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. How effectively this is accomplished depends upon the linkages between operating decisions and top management (strategic) decisions. The focus of the course is decision-making at the operating level of the firm, converting broad policy directives into specific actions within the organization. Strong emphasis will be placed on the development and use of quantitative models to assist in decision making.

Credits: 3
Room and Schedule: ASYNCHRONOUS;ONLINE COURSE
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None

Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

BZAN770301
Managerial Statistics
Boardman Liu, Linda
Spring 2025
This course teaches the tools and techniques of statistics most commonly used in business. The major topic areas include: populations, random variables, distributions, and sampling; parameter estimation; hypothesis testing; and simple and multiple regression. All topics are taught by application to actual business problems using original data. The course provides the tools students will need for their functional courses, such as finance and marketing, as well as for core courses in business analytics.STEM-designated

Credits: 0
Room and Schedule: ASYNCHRONOUS;ONLINE COURSE
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

BZAN770601
Data Analytics 1: Model Building
VanderWerf, Pieter A
Spring 2025

Machine Learning, big data, data mining, predictive analytics. These are what the course covers. They consist of the creation and use of mathematical computer models to predict important quantities and events with uncanny accuracy. As one book put it, "Who clicks, who buys, and who dies." The course teaches both the principles and the details of the major methods of making and applying these models to actual business problems. To produce models on the computer, students also learn the R coding language. This is the preferred high-level software for Machine Learning and statistical applications.STEM-designated

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

BZAN770602
Data Analytics 1: Model Building
VanderWerf, Pieter A
Spring 2025
Machine Learning, big data, data mining, predictive analytics. These are what the course covers. They consist of the creation and use of mathematical computer models to predict important quantities and events with uncanny accuracy. As one book put it, "Who clicks, who buys, and who dies." The course teaches both the principles and the details of the major methods of making and applying these models to actual business problems. To produce models on the computer, students also learn the R coding language. This is the preferred high-level software for Machine Learning and statistical applications.STEM-designated

Credits: 3
Room and Schedule: Fulton Hall 115 W 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer

Student Level: Graduate
Comments: None
Status: Offered

BZAN770701
Data Analytics 2: Data Management for Analytics
Evenchik, Leonard N
Spring 2025
Information Technology (IT) and Data Analytics now permeate the strategy, structure, and operations of modern enterprises, and new business practices have led to an orders of magnitude increase in the amount of data available for analysis and decision-making. It is essential that managers develop a deep understanding of how data can be structured, captured, and queried in order to support operations, decision-making, and strategic insight. At the same time, managers must become fluent with IT so that they can promote innovative strategic initiatives that are increasingly data and IT dependent. In this course, students will develop an understanding of IT theory and practice, study key emerging technologies, and develop their ability to identify new opportunities made possible by IT. This course will also provide students with a deep understanding of data and analytics by exploring how business processes are analyzed, data is modeled (using entity relationship diagrams), databases are designed, and data is queried using SQL. This combination of theory and practice will allow students to develop their ability to identify and take advantage of the new opportunities now made possible by data analytics and Information Technology. The on-campus section of this course (BZAN7707) will meet weekly on campus. Please note that the online asynchronous section of this course will also include two or three synchronous web conferences during the semester. Please review the course syllabus for the schedule for these web conferences, or contact the instructor. STEM-designated This course was formerly numbered: ISYS7700

Credits: 3
Room and Schedule: Fulton Hall 130 Th 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN770702

Data Analytics 2: Data Management for Analytics

Evenchik, Leonard N

Spring 2025

Information Technology (IT) and Data Analytics now permeate the strategy, structure, and operations of modern enterprises, and new business practices have led to an orders of magnitude increase in the amount of data available for analysis and decision-making. It is essential that managers develop a deep understanding of how data can be structured, captured, and queried in order to support operations, decision-making, and strategic insight. At the same time, managers must become fluent with IT so that they can promote innovative strategic initiatives that are increasingly data and IT dependent. In this course, students will develop an understanding of IT theory and practice, study key emerging technologies, and develop their ability to identify new opportunities made possible by IT. This course will also provide students with a deep understanding of data and analytics by exploring how business processes are analyzed, data is modeled (using entity relationship diagrams), databases are designed, and data is queried using SQL. This combination of theory and practice will allow students to develop their ability to identify and take advantage of the new opportunities now made possible by data analytics and Information Technology. The on-campus section of this course (BZAN7707) will meet weekly on campus. Please note that the online asynchronous section of this course will also include two or three synchronous web conferences during the semester. Please review the course syllabus for the schedule for these web conferences, or contact the instructor. STEM-designated This course was formerly numbered: ISYS7700

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN770801

Data Analytics 3: In Practice

Beebe, Jonathan R
Spring 2025
Modern information systems now generate massive volumes of data. Organizations everywhere struggle to aggregate, analyze, and monetize the growing deluge of data. Business Analytics capitalizes on this data by combining statistical and quantitative analysis, explanatory and predictive modeling, and fact-based management. Managers can explore patterns, predict future trends and develop proactive, knowledge-driven decisions that affect all parts of modern organizations. This course provides students with a pragmatic familiarity with the capabilities and limitations of emerging analytics techniques, an introduction to Python, an overview of methods and tools, and a core understanding required to be an intelligent manager, designer, and consumer of analytics models. STEM-designated This course was formerly numbered: ISYS7705

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: BZAN7703 and BZAN7706
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN770802
Data Analytics 3: In Practice
Beebe, Jonathan R
Spring 2025

Modern information systems now generate massive volumes of data. Organizations everywhere struggle to aggregate, analyze, and monetize the growing deluge of data. Business Analytics capitalizes on this data by combining statistical and quantitative analysis, explanatory and predictive modeling, and fact-based management. Managers can explore patterns, predict future trends and develop proactive, knowledge-driven decisions that affect all parts of modern organizations. This course provides students with a pragmatic familiarity with the capabilities and limitations of emerging analytics techniques, an introduction to Python, an overview of methods and tools, and a core understanding required to be an intelligent manager, designer, and consumer of analytics models. STEM-designated This course was formerly numbered: ISYS7705

Credits: 3
Room and Schedule: Fulton Hall 245 Th 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: BZAN7703 and BZAN7706
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN771801
Data Analytics 3: In Practice
Beebe, Jonathan R
Spring 2025

Modern information systems now generate massive volumes of data. Organizations everywhere struggle to aggregate, analyze, and monetize the growing deluge of data. Business Analytics capitalizes on this data by combining statistical and quantitative analysis, explanatory and predictive modeling, and fact-based management. Managers can explore patterns, predict future trends and develop proactive, knowledge-driven decisions that affect all parts of modern organizations. This course provides students with a pragmatic familiarity with the capabilities and limitations of emerging analytics techniques, an introduction to Python, an overview of methods and tools, and a core understanding required to be an intelligent manager, designer and consumer of analytics models. STEM-designated This course was formerly numbered: ISYS7730

Credits: 2
Room and Schedule: Fulton Hall 130 MW 11:00AM-01:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Graduate
Comments: None
Status: Offered

BZAN771802
Data Analytics 3: In Practice
Beebe, Jonathan R
Spring 2025

Modern information systems now generate massive volumes of data. Organizations everywhere struggle to aggregate, analyze, and monetize the growing deluge of data. Business Analytics capitalizes on this data by combining statistical and quantitative analysis, explanatory and predictive modeling, and fact-based management. Managers can explore patterns, predict future trends and develop proactive, knowledge-driven decisions that affect all parts of modern organizations. This course provides students with a pragmatic familiarity with the capabilities and limitations of emerging analytics techniques, an introduction to Python, an overview of methods and tools, and a core understanding required to be an intelligent manager, designer and consumer of analytics models. STEM-designated This course was formerly numbered: ISYS7730

Credits: 2
Room and Schedule: Fulton Hall 130 MW 08:30AM-10:30AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Graduate
Comments: None
Status: Offered

BZAN772001
Operations Management
Alev, Isil
Spring 2025
This course discusses the resource structure and the execution of activities that produce goods or deliver services. It focuses on the design and integration of the supply chain processes that support a company's business strategy. It offers a blend of the theory and practice of operations management. At the same time, the course shows the role of quantitative techniques in guiding the operations decisions. The pedagogy involves lecture, readings, and discussion of case studies.STEM-designated

Credits: 2
Room and Schedule: Fulton Hall 130 TuTh 11:00AM-01:00PM
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN772002
Operations Management
Alev, Isil
Spring 2025
This course discusses the resource structure and the execution of activities that produce goods or deliver services. It focuses on the design and integration of the supply chain processes that support a company's business strategy. It offers a blend of the theory and practice of operations management. At the same time, the course shows the role of quantitative techniques in guiding the operations decisions. The pedagogy involves lecture, readings, and discussion of case studies.STEM-designated

Credits: 2
Room and Schedule: Fulton Hall 130 TuTh 08:30AM-10:30AM
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN802101
Coding for Business
Sterpe, Peter J
Spring 2025

This is an introductory course in computer programming based on Python (a language suitable for all business and analytics programs). The course emphasizes coding literacy and teaches coding skills that are relevant for business decision makers. MBA DA3 is a prerequisite. This course will give students the knowledge and confidence to apply coding to a business problem, and the ability to go from a problem statement to a repeatable set of steps for solving the problem in a general way. It will enable students who might not code professionally to work effectively with colleagues who do, and it will equip interested students to develop significant programs of their own.STEM-designated.

Credits: 2
Room and Schedule: Devlin Hall 117 TuTh 04:30PM-06:30PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN803001
Managing Projects
Chirkova, Aza
Spring 2025
This course takes a holistic approach to planning, organizing, and controlling projects. It looks at how projects are uniquely suited to support an organization's strategy in a fast-paced business environment. Topics include project life cycle, algorithms and statistical concepts underlying network planning models, managing risk and resource allocation. It emphasizes the use of effective interpersonal and communication skills to organize, plan, and control the project team.

Credits: 2
Room and Schedule: Fulton Hall 130 MW 08:30AM-10:30AM
Satisifies Core Requirement: None
Prerequisites: BZAN7700
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Graduate

Comments: None
Status: Offered

BZAN806701
Machine Learning & Artificial Intelligence
VanderWerf, Pieter A
Spring 2025
This course builds on Data Analytics 1 to provide students with advanced tools and skills forMachine learning (ML) in business practice. On the technical side, the course content extends to a wider range of algorithms as well as advanced methods for data sampling and model building and evaluation. More depth in application comes from student reports on current events in Machine Learning, and a course project that involves complete model construction and analysis for an actual business problem with an actual corporate data set. The course assumes the student has experience with the basic machine learning algorithms and the R codinglanguage.STEM-designated.

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: Prior to this course, students should have completed BZAN7703 (Managerial Statistics) and either BZAN7706 or BZAN7716 (DA1: Model Building).
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN816501
Intro to Programming using Swift for iOS App Development
Gallaugher, John M
Spring 2025

In this fast-paced course, students will learn the Swift programming language and iOS app development skills. Using a "flipped-classroom" approach, the students take lectures in a series of online videos embedded in a web-based course/reference/quiz book, following along with videos as they learn programming concepts and build apps. Although this is a flipped class, expect a challenging course. Class is mandatory (this is NOT an online course) and class time will be used for additional exercises, concept review, and student questions. Students are required to bring a fully-charged Mac laptop to each class with the latest version of Apple's free Xcode software installed (make sure you have access to a Mac that meets these requirements before enrolling). The course assumes no programming background, but students with some experience will likely have an easier time. Students should be prepared to spend significant time each week on self-directed learning and regular programming projects. This course was formerly numbered: ISYS2160.

Credits: 3
Room and Schedule: Fulton Hall 235 M 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN817501
Physical Computing - Interactive Art, Robotics, and Tech for Good
Gallaugher, John M
Spring 2025

Low-cost microcontrollers, sensors, and computing devices like the Raspberry Pi make it possible to create technical projects that humans can physically interact with. This course assumes no prior programming experience but will progress quickly through block-based MakeCode programming, then CircuitPython programming so that all students have coding knowledge necessary to create hardware projects. Students will purchase an amount of hardware and tools similar to the cost of books in a standard course, and we'll use these parts to build a series of projects that control lights, read sensors, produce sound, respond to touch and app control, capture camera images, and more. We'll also build a wheel-based robot, and students will have an opportunity to create and present several original projects and share their work with classmates. This course was formerly numbered: ISYS2170.

Credits: 3
Room and Schedule: Fulton Hall 415 W 04:30PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Graduate
Comments: None
Status: Offered

BZAN844501
Data Visualization
Karpovsky, Anna
Spring 2025
This course covers foundations of data visualization and best practices to help students effectively analyze data and present their insights clearly in a way that will engage their audience. The course provides discussions and presentations on topics such as visual perception, the various chart types and when to use them, the effective use of colors, typography, maps, and other visualization techniques for incorporating analytics and storytelling, and teaches through many examples of compare and contrast. The conceptual discussions will be integrated with hands-on experience using Tableau. STEM-designated. This course was formerly numbered: ISYS8445

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None

Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Graduate
Comments: None
Status: Offered

BZAN849701
Directed Readings
Graves, Samuel B
Spring 2025
Extensive reading under the direction of a faculty member. Student presents written critiques of the reading as well as comparisons between readings.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN849801
Directed Research I
Graves, Samuel B
Spring 2025
Investigation of a topic under the direction of a faculty member. Student develops a paper with publication potential.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: With permission of the department chairperson. or Permission of Department

Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN880401
Quality Management
Field, Joy M
Spring 2025
This course focuses on quality management as a critical operations management capability. Students will explore a variety of quality programs and tools with an emphasis on the Six Sigma approach to quality analysis and process improvement in both services and goods producing operations. During the course students will have an opportunity to pursue Six Sigma Green Belt certification. STEM-Designated

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: None
Prerequisites: BZAN7703
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Graduate
Comments: None
Status: Offered

BZAN881001
Sports Analytics
Parker, Delvon B
Spring 2025

This course will introduce you to the field of sports analytics. We will apply quantitative methods from statistics and management science in a sports context. Our focus will be on-field analysis including player and team evaluation and game strategy. We will cover baseball, football, and basketball in depth with occasional references to other sports. We will also discuss concepts from behavioral economics and psychology that help explain the actions of players, coaches, and referees.STEM-designated

Credits: 3
Room and Schedule: Fulton Hall 423 M 07:00PM-09:30PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Graduate
Comments: None
Status: Offered

BZAN889901
Directed Study
Graves, Samuel B
Spring 2025
The student will work under the direction of a professor with whom he or she has made specific advance arrangements.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: With permission of the Department Chairperson or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Fall,Periodically in the Spring
Student Level: Graduate
Comments: None
Status: Offered
