

MNGT 136
Business Analytics
3 Credits

Community College of Baltimore County
Common Course Outline

Description

MNGT 136 – Business Analytics: is a course in which students are introduced to the concept of business analytics and provides students with a sound conceptual understanding of the role that business analytics plays in the decision-making process. Data-driven decision making and the use of analytical approaches in the decision-making process are explored. Various tools will be used to create, manipulate, and report data. Statistical theories and models will be integrated into objective decision-making.

Pre-requisites: MATH 153

Overall Course Objectives

Upon completion of this course, students will be able to:

1. define decision making;
2. identify various data types and their specific usage;
3. explain the need for data collection;
4. explain how data can be used in decision making;
5. explore techniques and tools related to data visualization;
6. identify important data relations and patterns;
7. introduce descriptive data mining methods and related concepts;
8. discuss sampling methods;
9. introduce sampling distributions;
10. discuss the linear regression models and their uses;
11. explore basic methods of time series analysis and forecasting;
12. introduce predictive data mining concepts and techniques;
13. discuss the legal and ethical issues in the use of data and analytics;
14. demonstrate data analysis processes, functions, and transformation to data sets; and
15. discuss principles of building adequate spreadsheet models.

Major Topics

- I. Descriptive statistics
- II. Roles of data analysis
- III. Summarizing and presenting data
- IV. Data types
- V. Data visualization techniques
- VI. Data dashboard
- VII. Probability
 - a. Conditional probability

The Common Course Outline (CCO) determines the essential nature of each course.
For more information, see your professor's syllabus.

- b. Probability distributions
- VIII. Sampling
- IX. Sampling distribution
- X. Big data
- XI. Linear regression
- XII. Predictive data mining
- XIII. Spreadsheet models
 - a. What-if analysis
 - b. Functions

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- Six projects
- Two exams
- Comprehensive final exam and/or comprehensive final project

Date Revised: 11/16/2021

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