

# Introduction to Business Analytics

## Fall 2013

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### SYLLABUS

#### Description:

Analytics has been defined as the extensive use of data, statistical and quantitative analysis, explanatory and predictive models, and fact-based management to drive decisions and actions. Analytics is more than just analytical methodologies or techniques used in logical analysis. It is a process of transforming data into actions through analysis and insights in the context of organizational decision making and problem solving. Analytics includes a range of activities, including business intelligence, which is comprised of standard and ad hoc reports, queries and alerts, and quantitative methods, including statistical analysis, forecasting/ extrapolations, predictive modelling (such as data mining), optimization and simulation.

#### Course Materials:

Selected readings and articles – distributed in class and/or posted online.

#### Software:

Excel and Excel add-ins will be the primary software used throughout the course. Both of the add-ins: XLMiner (available at [www.xlminer.com/xlminer\\_data\\_mining](http://www.xlminer.com/xlminer_data_mining)) and SPSS (www.spssinc.com/trials.asp) are available as free 10 day trial versions.

#### Prerequisites:

Business Statistics

# Introduction To Business Analytics Syllabus Lmu

**Michael Rajnik**



## **Introduction To Business Analytics Syllabus Lmu:**

*Introduction to Business Analytics* Vernon J. Richardson, Katie Terrell, Marcia Weidenmier Watson, 2023 Focus on Building Skills with Excel Tableau and Power BI Students learn how to conduct business analytics using Excel Tableau and Power BI three software tools that are widely used by businesses today Focus on Building Critical Thinking Skills From learning to ask the right questions to interpreting and presenting results Introduction to Business Analytics fosters critical thinking and develops business analysis skills It teaches students how to use descriptive diagnostic predictive prescriptive and advanced analytics to answer the following business questions

**Introduction to Business Analytics** Steven Orla Kimbrough, Lau Hoong Chuin, 2016-01-15 If you want to solve a problem strip the problem of nonessentials simplify and specialize without sacrificing its core This book highlights this spirit using concrete specific simple examples pertaining to business analytics Offering examples in thorough detail and designed to illuminate topics that often ramify to great complexity in practice it associates concepts through generalizations and refers the interested to further sources This book establishes a national syllabus for an emerging first course at an MBA level in Business Analytics

**Introduction to Business Analytics** Yavuz Keceli, 2022 This book provides a series of practice based exercises and labs designed for students who are trying to improve their decision making and analytical skills in Microsoft Office Excel environment These exercises and labs intend to teach the students the basic functions and features of Microsoft Office Excel as well as how these features can be applied to real life decision making problems including game theory simulations what if analysis financial applications pivot tables and many more Page 4 of cover

*Essentials of Business Analytics* Bhimasankaram Pochiraju, Sridhar Seshadri, 2019-07-10 This comprehensive edited volume is the first of its kind designed to serve as a textbook for long duration business analytics programs It can also be used as a guide to the field by practitioners The book has contributions from experts in top universities and industry The editors have taken extreme care to ensure continuity across the chapters The material is organized into three parts A Tools B Models and C Applications In Part A the tools used by business analysts are described in detail In Part B these tools are applied to construct models used to solve business problems Part C contains detailed applications in various functional areas of business and several case studies Supporting material can be found in the appendices that develop the pre requisites for the main text Every chapter has a business orientation Typically each chapter begins with the description of business problems that are transformed into data questions and methodology is developed to solve these questions Data analysis is conducted using widely used software the output and results are clearly explained at each stage of development These are finally transformed into a business solution The companion website provides examples data sets and sample code for each chapter

**Business Analytics for Decision Making** Steven Orla Kimbrough, Lau Hoong Chuin Lau, 2018-09-03 Business Analytics for Decision Making the first complete text suitable for use in introductory Business Analytics courses establishes a national syllabus for an emerging first course at an MBA or upper undergraduate

level This timely text is mainly about model analytics particularly analytics for constrained optimization It uses implementations that allow students to explore models and data for the sake of discovery understanding and decision making Business analytics is about using data and models to solve various kinds of decision problems There are three aspects for those who want to make the most of their analytics encoding solution design and post solution analysis This textbook addresses all three Emphasizing the use of constrained optimization models for decision making the book concentrates on post solution analysis of models The text focuses on computationally challenging problems that commonly arise in business environments Unique among business analytics texts it emphasizes using heuristics for solving difficult optimization problems important in business practice by making best use of methods from Computer Science and Operations Research Furthermore case studies and examples illustrate the real world applications of these methods The authors supply examples in Excel GAMS MATLAB and OPL The metaheuristics code is also made available at the book s website in a documented library of Python modules along with data and material for homework exercises From the beginning the authors emphasize analytics and de emphasize representation and encoding so students will have plenty to sink their teeth into regardless of their computer programming experience

**Introduction to Business Analytics** Vernon J. Richardson, Marcia Weidenmier Watson, VERNON. TERRELL RICHARDSON (KATIE. WATSON, MARCIA.), 2023-01-03 Focus on Building Skills with Excel Tableau and Power BI Students learn how to conduct business analytics using Excel Tableau and Power BI three software tools that are widely used by businesses today Focus on Building Critical Thinking Skills From learning to ask the right questions to interpreting and presenting results Introduction to Business Analytics fosters critical thinking and develops business analysis skills It teaches students how to use descriptive diagnostic predictive prescriptive and advanced analytics to answer the following business questions

**Introduction to Business Analytics** Dwaipayan Sethi, 2025-02-20 Introduction to Business Analytics delves into the convergence of data and technology in our digitized world We explore the significance of business analytics a field that uses data statistical analysis and data mining to understand and improve business performance We examine how business analytics tools help predict business outcomes by visualizing trends and patterns through forecasting and predictive modeling These tools are integral to business success aiding companies in making data driven decisions In many contexts data analysis is the first step in solving business problems making it crucial for business students to grasp these concepts This book provides insights into the meaning scope tools and methods of business analytics We explore advanced business analytics tools used for data analysis and aim to be the primary resource for students researchers and anyone interested in the field The first section covers the foundation of business analytics including descriptive predictive and prescriptive analytics With simple and easy to understand explanations we cover both basic and advanced business analytics concepts

**Introductory Business Analytics** Daniel Carroll, Kari Johnson, Jay Newquist, Aaron B. Perry, Christopher G. Robbins, Sarah P. Sherry, 2015-07 **An Introduction to Business Analytics** Ger

Koole,2019 Business Analytics BA is about turning data into decisions This book covers the full range of BA topics including statistics machine learning and optimization in a way that makes them accessible to a broader audience Decision makers will gain enough insight into the subject to have meaningful discussions with machine learning specialists and those starting out as data scientists will benefit from an overview of the field and take their first steps as business analytics specialist Through this book and the various exercises included you will be equipped with an understanding of BA while learning R a popular tool for statistics and machine learning

**A Business Analyst's Introduction to Business Analytics** Adam Fleischhacker,2020-07-20 This up to date business analytics textbook published in July 2020 will get you harnessing the power of the R programming language to manipulate and model data discover and communicate insight to visually communicate that insight and successfully advocate for change within an organization Book Description A frequent teaching award winning professor with an analytics industry background shares his hands on guide to learning business analytics It is the first textbook addressing a complete and modern business analytics workflow that includes data manipulation data visualization modelling business problems with graphical models translating graphical models into code and presenting insights back to stakeholders Book Highlights Content that is accessible to anyone even most analytics beginners If you have taken a stats course you are good to go Assumes no knowledge of the R programming language Provides introduction to R RStudio and the Tidyverse Provides a solid foundation and an implementable workflow for anyone wading into the Bayesian inference waters Provides a complete workflow within the R ecosystem there is no need to learn several programming languages or work through clunky interfaces between software tools First book introducing two powerful R packages causact for visual modelling of business problems and greta which is an R interface to TensorFlow used for Bayesian inference Uses the intuitive coding practices of the tidyverse including using dplyr for data manipulation and ggplot2 for data visualization Datasets that are freely and easily accessible Code for generating all results and almost every visualization used in the textbook Do not learn statistical computation or fancy math in a vacuum learn it through this guide within the context of solving business problems

**Introductory Business Analytics** Kari Johnson,Jay Newquist,Aaron B. Perry,Christopher G. Robbins,Sarah P. Sherry,2013-07-01 The introduction and expansion of new technologies make the evolving science of business analysis more important than ever In today s market business professionals face challenges to keep pace with the rapid expansion in a data driven world These challenges with Big Data can be turned into opportunities for better decision making use of the business analytic tools outlined in this text book Introductory Business Analytics provides an introduction to business analytics and a foundation to help develop a strong in business acumen

**Introduction to Business Analytics Using Simulation** Jonathan P. Pinder,2016-09-03 Introduction to Business Analytics Using Simulation employs an innovative strategy to teach business analytics It uses simulation modeling and analysis as mechanisms to introduce and link predictive and prescriptive modeling Because managers can t fully assess what will happen in the future but must still make decisions

the book treats uncertainty as an essential element in decision making Its use of simulation gives readers a superior way of analyzing past data understanding an uncertain future and optimizing results to select the best decision With its focus on the uncertainty and variability of business this comprehensive book provides a better foundation for business analytics than standard introductory business analytics books Students will gain a better understanding of fundamental statistical concepts that are essential to marketing research Six Sigma financial analysis and business analytics Winner of the 2017 Textbook and Academic Authors Association TAA Most Promising New Textbook Award Teaches managers how they can use business analytics to formulate and solve business problems to enhance managerial decision making Explains the processes needed to develop report and analyze business data Describes how to use and apply business analytics software **Business**

**Analytics** James Abdey,2023-11-29 Analytical skills are in high demand but short supply Through a unique combination of data visualisation and analytics both theoretical and applied this ground breaking textbook provides you with the expertise to analyse interpret and communicate data with confidence to inform real world decision making Key features include Clear signalling of introductory intermediate and advanced content An entire chapter dedicated to data visualisation introducing Tableau for storytelling with data Motivational cases throughout showing how the theory relates to real life A wide variety of end of chapter exercises to test your understanding of the topics covered Online examples and datasets to help you master your analytics skills through hands on learning Lecturers also have access a range of online resources developed to support teaching including a Teaching Guide solutions to end of chapter exercises PowerPoints and a testbank Business Analytics Applied Modelling and Prediction is suitable for undergraduate and postgraduate students of Business Analytics Dr James Abdey is an Associate Professor Education in Statistics at The London School of Economics and Political Science LSE

Introduction to Business Analytics Majid Nabavi,David L. Olson,2018-10-29 This book presents key concepts related to quantitative analysis in business Business analytics has grown to be a key topic in business curricula and there is a need for stronger quantitative skills and understanding of fundamental concepts This book is aimed at business students undergraduate and graduate taking an introductory core course Topics covered include knowledge management visualization sampling and hypothesis testing regression simple multiple and logistic as well as optimization modeling It concludes with a brief overview of data mining Concepts are demonstrated with worked examples **Introductory Business Analytics** Kari

Johnson,Jay Newquist,Aaron B. Perry,Christopher G. Robbins,Sarah P. Sherry,Daniel Carroll,2014-07-07 **Introduction to**

**Business Analysis** Fred Hulme,Carolyn Turner,2020-07-06 *Business Analytics Principles, Concepts, and Applications with SAS* Marc J. Schniederjans,Dara G. Schniederjans,Christopher M. Starkey,2014-10-07 Responding to a shortage of effective content for teaching business analytics this text offers a complete integrated package of knowledge for newcomers to the subject The authors present an up to date view of what business analytics is why it is so valuable and most importantly how it is used They combine essential conceptual content with clear explanations of the tools techniques and methodologies

actually used to implement modern business analytics initiatives Business Analytics Principles Concepts and Applications with SAS offers a proven step wise approach to designing an analytics program and successfully integrating it into your organization so it effectively provides intelligence for competitive advantage in decision making Using step by step examples the authors identify common challenges that can be addressed by business analytics illustrate each type of analytics descriptive prescriptive and predictive and guide users in undertaking their own projects Illustrating the real world use of statistical information systems and management science methodologies these examples help readers successfully apply the methods they are learning Unlike most competitive guides Business Analytics Principles Concepts and Applications with SAS demonstrates the use of SAS software permitting instructors to spend less time teaching software and more time focusing on business analytics itself

*Business Analytics: Step-by-Step Tutorial* Narcoz Roztocki, 2016-11-05 Business Analytics refers to utilizing existing data to make business decisions Often however the decision makers lack the knowledge and skill to process the existing documents and retrieve information that is useful for their decision making The objective of this tutorial is to improve basic skills on how to process existing data by providing a collection of simplified but realistic hands on examples In essence this tutorial is a collection of business mini cases It starts with relatively simple cases and then progresses step by step by adding complexity to each of the following business cases Its intent is to encourage effective and efficient use of application software to help the decisions makers There are three major changes to the second edition First several additional mini case studies are added Second the case studies are rearranged to allow a more systematic progress Third in addition to a solution key detailed solutions to 35 exercises by using MS Excel are added

**Introduction to Business Analytics Set** Adair, 2018-03-02 [Business Analytics Principles, Concepts, and Applications](#) Marc J. Schniederjans, Dara G. Schniederjans, Christopher M. Starkey, 2014 Learn everything you need to know to start using business analytics and integrating it throughout your organization Business Analytics Principles Concepts and Applications brings together a complete integrated package of knowledge for newcomers to the subject The authors present an up to date view of what business analytics is why it is so valuable and most importantly how it is used They combine essential conceptual content with clear explanations of the tools techniques and methodologies actually used to implement modern business analytics initiatives They offer a proven step wise approach to designing an analytics program and successfully integrating it into your organization so it effectively provides intelligence for competitive advantage in decision making Using step by step examples the authors identify common challenges that can be addressed by business analytics illustrate each type of analytics descriptive prescriptive and predictive and guide users in undertaking their own projects Illustrating the real world use of statistical information systems and management science methodologies these examples help readers successfully apply the methods they are learning Unlike most competitive guides this text demonstrates the use of IBM s menu based SPSS software permitting instructors to spend less time teaching software and more time focusing on business

analytics itself A valuable resource for all beginning to intermediate level business analysts and business analytics managers for MBA Masters degree students in the field and for advanced undergraduates majoring in statistics applied mathematics or engineering operations research



## Whispering the Strategies of Language: An Mental Quest through **Introduction To Business Analytics Syllabus Lmu**

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