Classes TA'd at Dartmouth & KSU

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I have served as a teaching assistant for seven classes in my time at Kent State University and 2 graduate-level classes at Dartmouth. I was recommended by my professors at the Kent State Mathematics Department and Dartmouth due to my performance in their classes.

QBS 181 Data Wrangling Fall 2021 Data wrangling is the process of mapping and transforming data into new formats for the increased ease and efficiency of downstream analysis. In this course, students will learn about the different types of data structures and formats, and how to create, merge, subset, and manipulate these structures. Students will wrangle data using Excel, SQL, and R programming as appropriate, learn the principles of tidy data and the tidy verse, learn string processing with regular expressions, and have an introduction to web scraping and API's for data collections.

QBS 119 Foundations of Applied Biostatistics I Fall 2021 In this course, students will learn foundational topics for biostatistics including probability, probability distributions, random variables, moments of distributions, variable transformations, sampling distributions, the central limit theorem, P-values and confidence intervals, hypothesis testing, parametric and non-parametric test statistics, power and sample size calculations, and study designs for biomedical research. Statistical testing approaches covered in the course will include bivariate analyses (including simple linear regression) to prepare the student for multivariable modeling in future courses. Course content will be drawn from the course textbook and peer-reviewed research studies. In-class activities will prominently feature active learning activities. The course will require extensive use of the R Language for Statistical Computing.

MATH 10040, Introductory Statistics Plus Spring 2020 (Equivalent to MATH 10041) An introduction to statistical thinking and statistical methods with a review of basic algebra. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10041.

MATH 30011, Basic Probability & Statistics Fall 2019 Analysis and representation of data. Controlled experiments and observations. Measurement errors. Correlation and regression. Sampling. Probability models and tests of models. Inference.

MATH 11012, Intuitive Calculus (3) Spring 2019 Designed to give an overview of differential and integral calculus to business and life science majors. Does not include trigonometric functions.

MATH 10041, Introductory Statistics (4) Spring 2019 Descriptive statistics, probability concepts, binomial and normal distributions. Sampling, estimation, hypothesis testing. Analysis of paired data, linear models and correlation.

MATH 10041, Introductory Statistics, 001 (4) Fall 2018 Descriptive statistics, probability concepts, binomial and normal distributions. Sampling, estimation, hypothesis testing. Analysis of paired data, linear models and correlation.

MATH 10041, Introductory Statistics, 002 (4) Fall 2018 Descriptive statistics, probability concepts, binomial and normal distributions. Sampling, estimation, hypothesis testing. Analysis of paired data, linear models and correlation.

MATH 10041, Introductory Statistics, 003 (4) Fall 2018 Descriptive statistics, probability concepts, binomial and normal distributions. Sampling, estimation, hypothesis testing. Analysis of paired data, linear models and correlation.