Brutus Buckeye

PhD-Theoretical - November 13, 2019 (Page 1)



Analysis Courses

Introductory Analysis 1

Term: AU '16 Sem. Class: MATH 5201 School: The Ohio State University

Grade: A (A-E/F) Cr.: (Underg.) Instr.: Daniel Thompson

Text: Basic Analysis-Jiri Lebl [Chapters 1-6]

Topics: Sequences, limits, continuity, differentiation, Riemann integral, sequences and series of functions, Taylor series, improper integrals

Complex Analysis

Term: SP '16 Sem. Class: MATH 4552 School: The Ohio State University

Grade: A- (A-E/F) Cr.: (Underg.) Instr.: Christopher Miller

Text: Complex Analysis And Applications-H. Pathak [Chapters 2-5]

Topics: analytic functions of complex variables, integral theorems, power series, residues, conformal mapping

Algebra Courses

Applied Algebraic Topology

Term: AU '17 Sem. Class: MATH 4570 School: The Ohio State University

Text: Algebraic Topology-Robert Switzer [Chapters 1-10]

Topics: Persistent homology of point clouds for applications to data analysis, realworld applications to data analysis

Abstract Algebra 1

Term: AU '17 Sem. Class: MATH 5111 School: The Ohio State University

Grade: A- (A-E/F) Cr.: (Underg.) Instr.: Silvia Onofrei

Text: Abstract Algebra-Thomas Hungerford [Chapters 1-6]

Topics: number theory, group theory, vector spaces, linear transformations, field theory, field extensions

HE OHIO STATE UNIVERSITY







The Ohio State University Mathematics Course and Book List

Brutus Buckeye

PhD-Theoretical - November 13, 2019 (Page 2)



Abstract Algebra 2

Term: SP '17 Sem. Class: MATH 5112 School: The Ohio State University

Grade: A (A-E/F) Cr.: (Underg.) Instr.: James Cogdell

Text: Abstract Algebra-Thomas Hungerford [Chapters 7-12]

Topics: number theory, group theory, vector spaces, linear transformations, field

theory, field extensions

Differential Equations Courses

Partial Differential Equations

Term: AU '18 Sem. Class: MATH 4557 School: The Ohio State University

Grade: B (A-E/F) Cr.: (Underg.) Instr.: Yuji Kodama

Text: Partial Differential Equations-M. Gockenbach [Chapters 1-5]

Topics: 1st and 2nd order PDE's, initial & boundary value problems, Fourier series, Green's functions, wave, heat, and Laplace equations, nonlinear PDE's

Statistics Courses

Bayesian Analysis And Statistical Decision

Term: SP '18 Sem. Class: STAT 3303 School: The Ohio State University

Grade: A (A-E/F) Cr.: (Underg.) Instr.: Oxana Chkrebtii

Text: Statistical Decision Making-Ming-hui Chen [Chapters 1-9]

Topics: formulation of decision problems & quantification of their components, unknown features of a decision problem based on data from Bayesian analysis, characterizing & finding optimal decisions

THE OHIO STATE
UNIVERSITY



