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  
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  
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  
Grade: B+ (A+-E/F)  
Cr.: (Underg.)  
Instr.: Ernest Fontes

Text: Algebraic Topology-Robert Switzer  
Topics: Persistent homology of point clouds for applications to data analysis, real-world 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  
Topics: number theory, group theory, vector spaces, linear transformations, field theory, field extensions
Abstract Algebra 2

Term: SP '17 Sem.  
Grade: A (A-E/F)  
Text: Abstract Algebra-Thomas Hungerford  
Topics: number theory, group theory, vector spaces, linear transformations, field theory, field extensions

Differential Equations Courses

Partial Differential Equations

Term: AU '18 Sem.  
Grade: B (A-E/F)  
Text: Partial Differential Equations-M. Gockenbach  
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.  
Grade: A (A-E/F)  
Text: Statistical Decision Making-Ming-hui Chen  
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