| Class | Instructor | Dates | Textbooks | Description | Grade |
|---|---|---|---|---|---|
| Honors IBL Calculus 1 | Daniil Rudenko | Fall Quarter Freshman Year | Custom | IBL calculus class | A |
| Honors IBL Calculus 2 | Daniil Rudenko | Winter Quarter Freshman Year | Custom Worksheets | - | A |
| Honors IBL Calculus 3 | Daniil Rudenko | Spring Quarter Freshman Year | Custom Scripts designed by UChicago | - | A,A,A |
| Abstract Linear Algebra | Da Rong Cheng | Spring Quarter Freshman Year | Sergei Treil Linear Algebra Done Wrong | Abstract Linear Algebra | A |
| Analysis in Rn (Acc) 1 | Da Rong Cheng | Fall Quarter Sophomore Year | Rudin | Differentiability and Basic Integration in R | A- |
| Analysis in Rn (Acc) 2 | Aaron Brown | Winter Quarter Sophomore Year | Rudin | Integration and Differential forms in Rn | B |
| Analysis in Rn (Acc) 3 | Kurt Vinhage | Spring Quarter Sophomore Year | Rudin | Measure/Integration in Rn | A- |
| Introduction to Algebraic Topology | Maxime Bergeron | Spring Quarter Sophomore Year | Hatcher Algebraic Topology | Topics include the fundamental group of a space; Van Kampen's theorem; covering space | A |
| Computability Theory 1 (Graduate) | Denis Hirschfeldt | Spring Quarter Sophomore Year | Soare, Turing Computability: Theory and Applications | We investigate the computability and relative computability of functions and sets. Topics ir | A- |
| Topology Geometry 1 (Graduate) | Benson Farb | Fall Quarter Junior Year | Hatcher Algebraic Topology | Fundamental group, covering space theory and Van Kampen's theorem (with a discussion | B |
| Honors Basic Algebra 1 | Daniil Rudenko | Fall Quarter Junior Year | Dummit and Foote | Topics in MATH 25700 include the theory of finite groups, up through and including the pr | A- |
| Honors Basic Algebra 2 | Nick Rosenblyum | Winter Quarter Junior Year | Dummit and Foote | Topics in MATH 25800 include commutative and noncommutative ring theory, modules, lir | A |
| Basic Complex Analysis | Maxime Bergeron | Winter Quarter Junior Year | Ahlfors Complex Analysis | Topics include complex numbers, elementary functions of a complex variable, complex int | A |
| Dynamical Systems | Amie Wilkinson | Winter Quarter Junior Year | Brin and Stuck Dynamical Systems | An introduction to concepts and examples in the study of dynamical systems. The key not | A |
| Honors Basic Algebra 3 | Matt Emerton | Spring Quarter Junior Year | Dummit and Foote | Topics in this course include basic field theory, the structure of p-adic fields, and Galois th | A |
| Type Theory | Stuart Kurtz | Spring Quarter Junior Year | Type theory for Functional Programming and The Little Typer | Programming was mostly used for exercises. Church's λ-calculus, β-reduction, the Church | A |
| Topology Proseminar | Peter May | (Officially) Fall Quarter Senior Yea | None | Talks covered basic chromatic homotopy theory, the Kervaire invariant and HHR, Introduc | In Progress |
| Topics in Dynamical Systems (Graduate) | Amie Wilkinson | Fall Quarter Senior Year | Lan Wen Differentiable Dynamical Systems | Smooth dynamics, Conley's Theorem, Rigidity and Persistence of Hyperbolicity, Stable an | In Progress |
| Introduction to the Representation Theory of Finite Groups | Benson Farb | Fall Quarter Senior Year | Fulton and Harris Representation Theory | Topics include group algebras and modules, semisimple algebras and the theorem of Mas | In Progress |
| Graduate Sheaf Theory | | Future | | | |
| Measure and Integration | | Future | | | |
| Topology / Geometry 2 | | Future | | | |