

MAT200: Logic, Language, and Proof
Syllabus, Summer 2021
Stony Brook University

Instructor: Dylan Galt (dylan.galt@stonybrook.edu)

Office Hours: by appointment.

Course Dates: May 25 – July 3

Lectures: TuTh 1:30 p.m. – 4:55 p.m.

Course Description: This course is an introduction to mathematical proof. The first half will cover certain logical foundations, with an emphasis on basic symbolic logic and set theory. The second half will involve applications of various common proof techniques to elementary number theory, culminating in a discussion of cardinalities, the Euclidean algorithm, and modular arithmetic (if time permits).

Midterm: Tuesday, June 15 (in class).

Final: Thursday, July 1 (in class).

Grading: Homework 45%, Participation 10%, Midterm 20%, Final 25%.

Textbook: Peter J. Eccles, *An Introduction to Mathematical Reasoning: Numbers, Sets and Functions*, Cambridge University Press, 2007.

Course Policies: This course will be taught online, via Zoom. Students are expected to attend all lectures. In the event that some students are in different time zones, lectures will be recorded. Homework will be assigned weekly, through Blackboard, and must be submitted via Blackboard.

DISABILITY SUPPORT SERVICES (DSS) STATEMENT: If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact the Student Accessibility Support Center, Stony Brook Union Suite 107, (631) 632-6748, or at sasc@stonybrook.edu. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

ACADEMIC INTEGRITY STATEMENT: Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty is required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty please refer to the academic judiciary website at <http://www.stonybrook.edu/uaa/academicjudiciary/>.

CRITICAL INCIDENT MANAGEMENT: Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of University Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures. Further information about most academic matters can be found in the Undergraduate Bulletin, the Undergraduate Class Schedule, and the Faculty-Employee Handbook.