

LOGIC, LANGUAGE, AND PROOF

MAT 200-03

Spring 2022

Important Note: Every effort will be made to avoid changing the course schedule, but the possibility exists that unforeseen events will make syllabus changes necessary. It is your responsibility to check Blackboard for corrections or updates to the syllabus. Any changes will be clearly noted in course announcements or through Stony Brook email.

Title:	Logic, Language, and Proof	Catalogue #:	200-03
Instructor:	Olivier Martin	Time:	MF 13:00 – 14:20
Email:	olivier.martin@stonybrook.edu	Place:	Frey Hall 317
Office:	Math Tower 4-116	Credits:	3
Office hours:	W 13:30-14:30, F 14:30-15:30	MLC hours:	W 9:30-10:30

Prerequisites: Level 4 on the mathematics placement examination, equivalent course, or my permission.

Required textbook: *An Introduction To Mathematical Reasoning: Numbers, Sets And Functions*, Peter Eccles, 1998.

Description: This course is an introduction to logic, the language of mathematics, and proof writing. The mathematical content is primarily logic and proofs, set theory, combinatorics, functions, relations, and elementary number theory. There is considerable focus on writing.

Evaluation: There will be two 55 minute midterms, a two and a half hour final, and roughly weekly problem sets. Your final grade will be based on your grades on homework (20%), the two midterms (20% each, for a total of 40%), and a 2 hour and a half final (40%). All exams will be held in the same room as lectures.

- Midterm 1: March 28th 1:00 – 1:55.
- Midterm 2: April 11th 1:00 – 1:55.
- Final: May 16th 14:15-16:45.

Homework: Homework will be assigned on a more or less weekly basis on Blackboard. A due date will appear on each homework and completed homework should be handed in at the **beginning** of class. **Questions regarding grading should be addressed to the grader whose contact information will be communicated through an announcement on Blackboard.** Your lowest grade on the homework will be dropped but **no individual extension will be given and late homework will not be accepted.** That being said, if you are facing a difficult situation in your personal life which is affecting your work you should contact me as soon as possible so that we can work out accommodations.

Office hours and MLC: My MLC hours will be held by zoom in my “Personal Zoom Meeting” <https://stonybrook.zoom.us/j/2974763950?pwd=TjRsS1ltZmk2M2M4UGpkbDh2cy9TZz09>, Meeting ID: 297 476 3950. My office hours will be held in person in my office. I will answer questions on a first come first served basis but will circle through participants.

Course delivery mode: This is an in person course.

How we will communicate: Course-related questions should be posted in the General Questions Forum in the course discussion board on Blackboard. For personal/private issues, email me directly. **Before you**

email me make sure the answer to your questions is not on Blackboard or on the syllabus. If you use Blackboard's email tool from the course site, it will automatically include your full name, course name and section when you send me an email. Please allow 48 hours for an email reply. Your Stony Brook University email must be used for all University-related communications. You must have an active Stony Brook University email account and access to the Internet. All instructor correspondence will be sent to your SBU email account. Plan on checking your SBU email account regularly for course-related messages. To log in to Stony Brook Google Mail, go to <http://www.stonybrook.edu/mycloud> and sign in with your NetID and password. Regular announcements will be sent from Blackboard. These will be posted in the course site and may or may not be sent by email.

Technical Requirements: This course uses Blackboard for the facilitation of communications between faculty and students and posting of grades and feedback. The Blackboard course site can be accessed at <https://blackboard.stonybrook.edu>. If you are unsure of your NetID, visit <https://it.stonybrook.edu/help/kb/finding-your-netid-and-password> for more information. You are responsible for having a reliable computer and Internet connection throughout the term. The following list details a minimum recommended computer set-up and the software packages you will need to have access to, and be able to use:

- PC with Windows 10 or higher (we recommend a 3-year Warranty),
- Macintosh with OS 10.11 or higher (we recommend a 3-year Warranty),
- Intel Core i5 or higher,
- 250 GB Hard Drive,
- 8 GB RAM ,
- Latest version of Chrome or Firefox; Mac users may use Chrome or Firefox. (A complete list of supported browsers and operating systems can be found on the My Institution page when you log in to Blackboard.),
- High speed internet connection,
- Word processing software (Microsoft Word, Google Docs, etc.) ,
- Headphones/earbuds and a microphone,
- Webcam (recommended),
- Printer (optional),
- Ability to download and install free software applications and plug-ins (note: you must have administrator access to install applications and plug-ins).

COURSE AND UNIVERSITY POLICIES

Student Accessibility Support Center Statement: If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact the Student Accessibility Support Center, 128 ECC Building, (631) 632-6748, or via e-mail at: sasc@stonybrook.edu. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and the Student Accessibility Support Center. For procedures and information go to the following website: <https://ehs.stonybrook.edu/programs/fire-safety/emergency-evacuation/>

evacuation-guide-people-physical-disabilities and search Fire Safety and Evacuation and Disabilities.

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/commcms/academic_integrity/index.html.

Important Note: Any form of academic dishonesty, including cheating and plagiarism, will be reported to the Academic Judiciary.

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 Student Conduct and Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Until/unless the latest COVID guidance is explicitly amended by SBU, during Fall 2021 "disruptive behavior" will include refusal to wear a mask during classes.

Understand When You May Drop This Course: It is the student's responsibility to understand when they need to consider withdrawing from a course. Refer to the Stony Brook Academic Schedule for dates and deadlines for registration: http://www.stonybrook.edu/commcms/registrar/calendars/academic_calendars.

Incomplete Policy: Under emergency/special circumstances, students may petition for an incomplete grade. Circumstances must be documented and significant enough to merit an incomplete. See https://www.stonybrook.edu/sb/bulletin/current/policiesandregulations/records_registration/course_load_withdrawal.php for details.

Course Materials and Copyright Statement: Course material accessed from Blackboard, SB Connect, SB Capture or a Stony Brook Course website is for the exclusive use of students who are currently enrolled in the course. Content from these systems cannot be reused or distributed without written permission of the instructor and/or the copyright holder. Duplication of materials protected by copyright, without permission of the copyright holder is a violation of the Federal copyright law, as well as a violation of Stony Brook's Academic Integrity.