

**MAT200 LOGIC, LANGUAGE AND PROOF, LEC 01**  
**(SPRING 2022, STONY BROOK UNIVERSITY)**

**Important caveat about MAT200 vs MAT250:** For the first two weeks of classes, we will have joint lectures for MAT 200 and MAT 250. Each of MAT 200 and MAT 250 fulfills the same requirements for math major. MAT 250 (Introduction to Advanced Mathematics) is designed to give an opportunity to study mathematics at a more advanced level. It will be more demanding than MAT 200. On Tuesday, February 8th (the third week of classes), the first exam will be given. By the results of this exam, you will be recommended either to stay in MAT 200 or move to MAT 250.

The first two lectures (Tu 1/25 and Th 1/27) will be given by Prof. O.Viro (who will teach MAT 250), the third and the fourth lectures (Tu 2/1 and Th 2/3) will be given by me, Artem (who will teach MAT 200).

Please register for gradescope.com (assignments and grading platform for the course). Use the entry code "ZR2RG8" when registering, this will insure you will be added to the right course.

SYLLABUS FOR MAT200

**Instructor:** Artem Kotelskiy, artem.kotelskiy@stonybrook.edu, Math Tower 3-116.

**Class time and location:** TuTh 1:15pm-2:35pm, Harriman 111.

**Office Hours:** Fr 11am-12pm, Fr 1pm-2pm (via zoom: [click to join](#)).

**MLC Hours:** Fr 10am-11am (via zoom: [click to chose instructor and join](#)).

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**Grader:** Hanbing Fang, Hanbing.Fang@stonybrook.edu, Math Tower S-240A.

**Office Hours:** W 4:30pm-5:30pm (via zoom: [click to join](#)).

**MLC Hours:** M 3pm-5pm (via zoom: [click to chose instructor and join](#)).

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**Textbook:** Peter J. Eccles, "An Introduction to Mathematical Reasoning", Cambridge University Press 2007.

**Course description:** The course is centered around logical reasoning, proofs and understanding of mathematical language. The mathematical content is primarily logic, proofs, set theory, combinatorics and basics of numbers and arithmetic; there is considerable focus on writing. This course is a prerequisite for upper-division math courses and aimed to prepare students for proof-oriented courses such MAT 310 and MAT 319. Credits this course is worth: 3.

**Attendance:** strongly encouraged, but not mandatory.

**Blackboard:** important announcements will be posted using blackboard — please make sure your notifications are on.

**Gradescope:** we will use <https://www.gradescope.com/> for submitting and grading homeworks and exams. Please register on this platform, and add yourself to our section using the code "ZR2RG8".

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**Grading components:** 14% HW, 25% Midterm I, 25% Midterm II, 36% Final

**Homework:** posted on gradescope weekly, with deadlines Wednesday 10pm each week. No late homework will be accepted, unless you have a strong excuse. Two lowest scores for homework will be dropped. **Collaboration is encouraged**, but you must submit your own write-ups. When you write up your homework, use complete sentences, write legibly, and make sure the proofs are all coherent. Write your proofs so that someone who is not already familiar with what you are writing about could read what you have written and learn from it.

**Exams:** Two 55-minute exams will be given during the semester, in the normal class time and location; *1st Midterm will happen on Tuesday, February 8th; 2nd Midterm date TBD.* A 2.5 hours comprehensive *final exam will be given during the finals period, on May 16, 11:15am-1:45pm.* No books, notes, calculators, or other electronic devices may be used during the exams, *but at the end of the exam you will have to scan your exam and submit it to gradescope using your phone.* You must bring your University ID card to all exams.

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**Makeup Exams:** not possible. If a student misses a midterm exam with documented evidence, then the student's final exam grade will be substituted for the missed midterm. A student must sit the final exam at the scheduled time in order to receive a passing grade in the class.

**Cheating:** forbidden (obviously). This includes the use of websites where one can find solutions to homeworks.

**Questions, problems, suggestions:** best to ask me during office hours or after classes, otherwise email me [artem.kotelskiy@stonybrook.edu](mailto:artem.kotelskiy@stonybrook.edu).

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**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, Stony Brook Union Suite 107, (631) 632-6748, or at [sasc@stonybrook.edu](mailto: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 and 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](http://www.stonybrook.edu/commcms/academic_integrity/index.html)

**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 (<https://www.stonybrook.edu/commcms/strongertogether/latest.php>) is explicitly amended by SBU, during Spring 2022 "disruptive behavior" will include refusal to wear a mask during classes.

**Learning objectives:**

*Learning Outcomes for "Pursue Deeper Understanding:* Students must use the skills expected from their Versatility courses to study and practice them in greater depth, with further study applied to the area in which they are certified.

*Standards for "Pursue Deeper Understanding:* Certified courses must expect students to practice the skills they learned in their Versatility courses in greater depth. These courses must have prerequisites from among the Versatility categories and will typically be at the 200-400 level."