

MAT 511 Syllabus, Fall 2020

Official course description: Brief history of mathematics; sets, functions and logic; constructions of number systems, including their historical development; mathematical induction. The main focus of the course will be on the construction and writing of mathematical proofs.

Credits: 3

Class time and location/modality.

Tuesdays and Thursdays 6:30-7:50 pm Eastern time in 101 Javits Lecture Hall and broadcast via Zoom (accessed at <https://www.math.stonybrook.edu/cards/hanlonandrew.html> or on Blackboard). In addition, lecture notes and recordings will be available on Blackboard and/or the course webpage.

Note: Be prepared that we may be forced to switch online at any time. There is also a possibility that our lecture room may change. I will do my best to keep you all updated when any changes occur.

Textbook: R. Hammack, [Book of Proof](#) (third edition)

Course webpage: <https://sites.google.com/stonybrook.edu/ahanlon/mat-511>

Course Instructor: Andrew Hanlon

E-mail: andrew.hanlon@stonybrook.edu

Office hours (via Zoom accessed [here](#) or on Blackboard): Tuesdays 5:00-6:00pm, Wednesdays 11:30am-12:30pm, and by appointment

Math Learning Center hours (via Zoom accessed on [MLC website](#)): Thursdays 5:00-6:00pm

Attendance: Live attendance in-person or of the digital lectures is encouraged so that you can ask questions, but it is not required. If you miss a lecture, you are still responsible for learning all the concepts covered and are highly encouraged to watch the recorded lecture.

Blackboard: Essential course information will be accessed on Blackboard. You should have access to and familiarize yourself with the course Blackboard page. Assignments will be submitted and grades will be posted on Blackboard.

GRADING

Homework	60%
Student Lecture	20%
Lecture feedback	5%
Final exam	15%

Homework: Homework will be assigned on a weekly basis and collected in the Assignments section of Blackboard. Homework will be posted on the course webpage and on Blackboard. Each week, a collection of problems from the assignment will be selected by the instructor to be graded from the homework. It is in your best interest to complete all assigned problems since you will not know which problems will be graded in advance. The link for submitting homework in Blackboard will expire at 11:59 pm Eastern time on the day that it is due. After that, the homework will not be accepted barring exceptional extenuating circumstances.

Your lowest score for homework will be dropped. You may work with other students on the homework, but your solutions must be written in your own words. At this level of mathematics, clear and concise writing is critical. Your solutions will be judged for clarity of formulation in addition to having the correct idea.

Student Lecture: Each student will be required to give a lecture in the course, and you are required to give feedback to other students on their lectures. You must contact the instructor in the first two weeks of class if you do not have the technology to do this remotely (to prepare in case we have to move online).

Final Exam: A comprehensive take-home final exam will be given during the final examination period. The final exam will be posted on Blackboard at least one week prior to the due date, which is the end of our officially designated final exam period (see below). On the final exam, you will be allowed to consult textbooks and other references, but will be expected not to discuss the exam problems (digitally or in-person) with anyone. You will be required to sign a statement that you have followed these rules. Below is a summary of the exam schedule.

Exam	Date	Time	Location/modality
Final Exam	Due December 10, 2020 (Thursday)	Due at 8:00 pm Eastern Time	Blackboard

MAKEUP EXAMINATIONS: As the final exam is a take-home exam, no makeup examinations will be given unless the student contacts the instructor, Andrew Hanlon, prior to December 10, 2020 with a valid documented reason why they will not be able to upload the completed final exam before 8:00 pm Eastern time on December 10, 2020.

Questions, Problems, or Comments: If you have questions or concerns about the course, please consult the instructor, Andrew Hanlon.

Student Accessibility Support Center Statement: If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Student Accessibility Support Center, ECC (Educational

Communications Center) Building, Room 128, (631)632-6748. They will determine with you what accommodations, if any, 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 Student Accessibility Support Center. For procedures and information go to the following website: <http://www.stonybrook.edu/ehs/fire/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.

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.

Face Mask policy: Students should be aware that a face mask is required while in the classroom. If a student does not comply, the student will be asked to leave the classroom. If the student does not comply or leave the classroom, we will end the class and the students will be reported to the Office of Student Conduct and Community Standards at communitystandards@stonybrook.edu.

ACCOMMODATIONS FOR STUDENTS WITH HEARING AND COMMUNICATION IMPAIRMENTS

Some students with hearing and communication impairments may need their instructor to wear a clear mask for lip and facial expression purposes. If the student has registered with the Student Accessibility Support Center (SASC) and has requested an accommodation for clear masks, SASC will reach out to the student's instructors and provide a clear mask for them to wear while teaching and/or interacting with the student. If you have questions, please email sasc@stonybrook.edu or call (631) 632-6748.

FACE MASK ACCOMMODATIONS, MODIFICATIONS, OR EXEMPTIONS

The Student Accessibility Support Center (SASC) works with students who may require academic accommodations. If a student is unable to wear a mask for health reasons, the student should contact SASC at sasc@stonybrook.edu. SASC will work with the student to help identify arrangements to complete in-person courses in an alternate format.

If, however, there is an in-person class that cannot be accommodated in an alternate format, a student may be approved by the Medical Director of Student Health Services to wear a modified face mask or no face covering. In this situation, SASC will communicate this information to the faculty member. Approved students will also be provided with a written exemption from the Medical Director of Student Health Services that indicates any modifications or exceptions, which they must carry with them to show faculty if requested. Please note that medical exemptions are rare and are based solely on medical necessity. If a student is exempt from the face mask policy, please consider how to seat students to ensure proper social distancing within a given instructional setting. If you have questions regarding accommodations, please email sasc@stonybrook.edu. For health related concerns in the classroom, please contact Dr. Rachel Bergeson, Medical Director, at rachel.bergeson@stonybrook.edu.