

# LOGIC, LANGUAGE AND PROOF MAT200-1

Fall 2021

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<b>Instructor:</b> James Waterman	<b>Time:</b> MW 4:25pm – 5:45pm
<b>Email:</b> <a href="mailto:james.waterman@stonybrook.edu">james.waterman@stonybrook.edu</a>	<b>Place:</b> Lgt Engr Lab 152
<b>Office:</b> Math Tower 3-118	

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*Please read the entire syllabus carefully before continuing in this course. In particular, be sure that you are available for the final exam.*

**Course Description:** A basic course in the logic of mathematics, the construction of proofs, and the writing of proofs. The mathematical content is primarily logic and proofs, set theory, combinatorics, functions and relations. There is considerable focus on writing.

**Office Hours:** Monday 3pm–4pm/ Wednesday 11am–12pm, or by appointment

## Exam Dates:

- Midterms (2): To be announced in class and on the course website at least one week in advance.
- Final Exam: Wednesday, December 8, 8:30pm-11:00pm

## Course Resources:

- **Course Website:** <https://sites.google.com/view/jwaterman/teaching>
- **Course Textbook:** Peter J. Eccles, *An Introduction to Mathematical Reasoning: Numbers, Sets and Functions*, Cambridge University Press, 2007.

**Prerequisites:** Level 4 on the mathematics placement examination or equivalent course or permission of the instructor.

## Grading Policy:

- **Homework** – 30% of total grade  
There will be a homework assignment due in class on most Wednesdays. Homework assignments will be posted on the course webpage. No late homework will be accepted. Any homework turned in after class will be considered late and will not be graded. One lowest score for homework will be dropped. You may work with other students on the homework, but you must write it yourself in your own words. Homework should be neatly written or typed, except where specified.
- **Midterms** – 40% of total grade  
There will be two closed book exams in class which will be scheduled during the course. The exam date will be posted at least one week in advance on the course website.
- **Final** – 30% of total grade  
There will be one closed book final exam scheduled by the university: December 8, 8:30pm-11:00pm.

**Make-up policy:** Make-up exams are given only for work missed due to unforeseen circumstances beyond the student's control.

**Masks:** Everyone participating in this class must wear a mask or face covering at all times or have the appropriate documentation for medical exemption. Please contact Student Accessibility Support Center (SASC) at [sasc@stonybrook.edu](mailto:sasc@stonybrook.edu) if you need special accommodations. Any student not in compliance with this policy will be asked to leave the class.

**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.

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-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](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 is explicitly amended by SBU, during Fall 2021 "disruptive behavior" will include refusal to wear a mask during classes.

**Syllabus Revision:** The standards and requirements in this syllabus may be modified at any time by the course instructor. Notice of such changes will be announced in class and changes to this syllabus will be posted on the course website.