MATH MAJOR CHECKLIST

Requirement for all Bachelor's degrees in Mathematics:
 □ Satisfying the Brandeis Core requirements (see page 2), which must be completed in the course of any degree. □ One of: Math 15a (Linear Algebra) or 22a (Honors Linear Algebra)
☐ One of: Math 20a (Multivariable Calculus) or 22b (Honors Multivariable Calculus)
☐ Math 23b (Introduction to Proofs)
□ One of: Math 35a (Advanced Calculus and Fourier Analysis), 110a (Real Analysis), or 115a (Complex Analysis)
□ One of: Math 28a (Introduction to Groups), 28b (Introduction to Rings and Fields), or 100a (Introduction to Algebra)
BA in Mathematics
\square Four additional courses, either MATH courses numbered 27 or higher, or cross-listed with Mathematics (all courses can be found here).
☐ Honors
☐ Six additional courses (as opposed to four), either MATH courses numbered 27 or higher, or cross-listed with Mathematics
□ At least four of the courses used to satisfy the major requirements must be MATH courses numbered 100 or higher, excluding MATH 121a, 122a, 123a, and 125a.(Cross-listed courses do not count toward
this requirement.) BS in Mathematics
□ Seven additional semester courses, either MATH courses numbered 27 or higher or cross-listed courses in Mathematics (all courses can be found here).
\square Honors
☐ At least four of the courses used to satisfy the major requirements
must be MATH courses numbered 100 or higher, excluding MATH
121a, 122a, 123a, 124a, 125a, and 126a. (Cross-listed courses do not
count toward this requirement.) One of:
☐ Two MATH courses numbered 201a or higher. (Cross-listed
courses do not count toward this requirement). These two courses
count toward the four courses required to satisfy the Honors Standards.
\square Completion and defense of a senior honors thesis. Students con-
sidering this option should enroll in MATH 99a and MATH 99b. A written thesis proposal must be prepared at the beginning
of the first semester, and be approved by the committee and the Undergraduate Advising Head, prior to registration for the
course.

BS in Applied Mathematics	
☐ Satisfying the Brandeis Core requirements (see below), which must be co	m-
pleted in the course of any degree.	
☐ One of: Math 15a (Linear Algebra) or 22a (Honors Linear Algebra)	
☐ One of: Math 20a (Multivariable Calculus) or 22b (Honors Multivaria	ble
Calculus)	
☐ Math 23b (Introduction to Proofs)	
☐ Math 36a (Probability)	
□ One of: Math 36b (Mathematical Statistics) or 40a (Introduction to A	۱p-
plied Mathematics)	
\Box Two of: Math 35a, 37a, 110a or 115a.	
\square Two of: Math 121a, 122a, 123a, 124a, 125a or MATH 126a.	
$\hfill\square$ One additional mathematics course numbered 27 or higher or a course cro	SS-
listed in Applied Mathematics (cross-listed courses with Applied Math	he-
matics can be found here:)	
\square Two courses must be taken from another department from the following	_
list: BCHM 102a, BCHM 104a, BCHM 145a, CHEM 141a, CHEM 14	
CHEM 146b, COSI 21a, COSI 112a, COSI 123a, COSI 130a, COSI 17	
COSI 180a, ECON 80a, ECON 161a, ECON 181b, ECON 182a, ECO	
184b, NBIO 136b, NPHY 115a, any PHYS course numbered 20 or high	er,
and QBIO 110a.	
□ Honors	
□ One of:	
☐ Two MATH courses numbered 201a or higher. (Cross-list	ied
courses do not count toward this requirement)	
☐ Completion and defense of a senior honors thesis. Students of	
sidering this option should enroll in MATH 99a and MATH 99	
A written thesis proposal must be prepared at the beginning	_
of the first semester, and be approved by the committee a	
the Undergraduate Advising Head, prior to registration for t	'nε
course.	
☐ In addition, all majors must satisfy the Brandeis Core requirements:	
To view the list of math courses that fulfill Foundational Literacy Requi	re-
ments, view the Requirements for the Major in the University Bulletin (a	
then scroll down toward the bottom of the page, just before the section	
"Math Cross Listed").	
□ Oral Communication	
□ Writing Intensive	
☐ Digital Literacy	