

**DEPARTMENT OF MATHEMATICS & STATISTICS
FACULTY OF ARTS AND SCIENCE
QUEEN'S UNIVERSITY**

Advice for students entering second-year in 2017–18

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Complete information about program requirements, courses of study, and academic regulations can be found in the [Faculty of Arts and Science Academic Calendar](#).

For advice about degree programs or courses, please email the Chair of Undergraduate Studies at ugchair@mast.queensu.ca.

1. DEGREE PROGRAMS

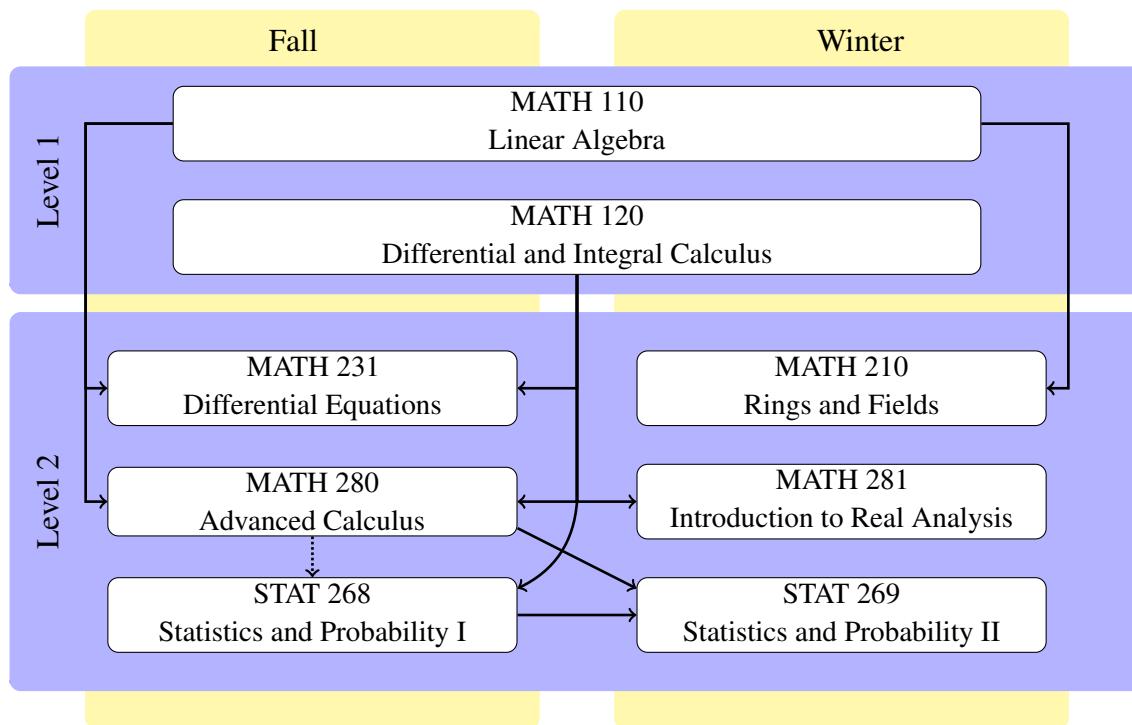
All students entering Level 2 (informally second-year) must apply for a specific degree program. A student enters Level 2 when they have completed at least 24.0 units. The Department of Mathematics & Statistics administers fifteen distinct degree programs.

Abbreviation	Degree	Program Name	Units
BIMA-P	BSH	Biology and Mathematics — Specialization (Science)	84.0
COMA-P	BCH	Computing and Mathematics — Specialization (Science)	84.0
MAPH-P	BSH	Mathematical Physics — Specialization (Science)	102.0
MATH-M	BSH	Mathematics — Major (Science)	60.0
STAT-M	BSH	Statistics — Major (Science)	60.0
MATH????-A	BAH	Mathematics — Medial (Arts)	2 × 42.0
STAT????-A	BAH	Statistics — Medial (Arts)	2 × 42.0
MATH-Z	BSH	Mathematics — Minor (Science)	48.0
STAT-Z	BSH	Statistics — Minor (Science)	48.0
MATH-Y	BAH	Mathematics — Minor (Arts)	30.0
STAT-Y	BAH	Statistics — Minor (Arts)	30.0
MATH-G	BSC	Mathematics — General (Science)	48.0
STAT-G	BSC	Statistics — General (Science)	48.0
MATH-G	BA	Mathematics — General (Arts)	30.0
STAT-G	BA	Statistics — General (Arts)	30.0

- The BIMA, COMA, and MAPH are jointly administered by the Department of Mathematics & Statistics and the Department of Biology, the School of Computing, and the Department of Physics, Engineering Physics and Astronomy respectively.
- The wildcards “????” denote a second medial degree program. The two plan abbreviations will appear in alphabetical order.
- Minor degree program must be combined with a major degree program.
- General degrees (a.k.a. three-year degrees) are stand alone degrees.
- Although students may transfer between degree plans (provided they are accepted by the department administering the new plan), each degree plan change will appear on the transcript.

2. COURSES FOR MAJORS AND SPECIALIZATIONS PROGRAMS

For Mathematics or Statistics majors and specializations programs, the preferred 100-level and 200-level courses are:

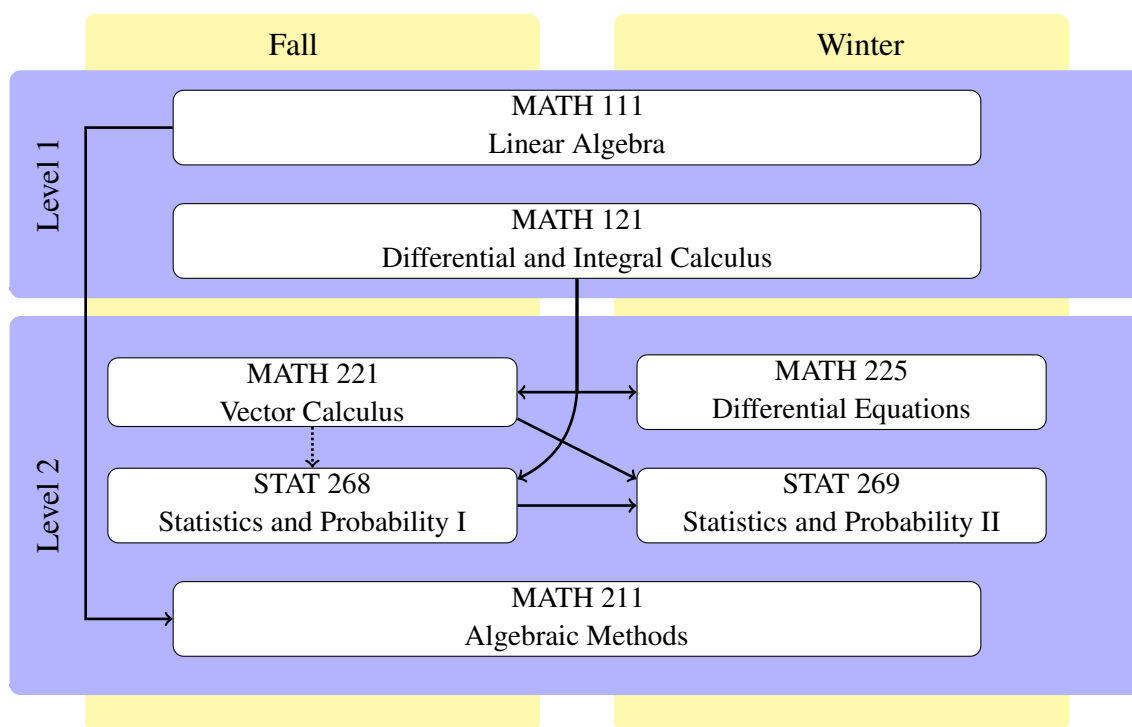


- The six preferred 200-level courses need not all be taken in the same year. For instance, students in the MAPH-P-BSH program may defer STAT 268 and STAT 269 until Level 3 to take the required 200-level PHYS courses. Similarly, students in the ECONMATH-A-BAH program often deferring MATH 210 and (possibly) MATH 231 until Level 3 to take the required 200-level ECON courses.
- BIOM 300 or MATH 339 may be taken after completing any full-year calculus course, although a course in linear algebra is recommended.
- Students who take MATH 111 or MATH 121 in their first year will be allowed to enter a plan for which MATH 110 or MATH 120 is required. Students who don't take linear algebra in the first year will not be allowed to replace MATH 110 with MATH 111.
- Under certain conditions, substitutions in the required 200-level courses may be permitted. For example, students who do not take linear algebra in first-year may replace MATH 280 with MATH 221. Making substitutions may result in not having the prerequisites for some upper-year courses and hence limit choices for 300- and 400-level courses. Contact the Chair of Undergraduate Studies for details.
- Students in the STAT-M-BSH program must take STAT 269 and one of STAT 268 or STAT 351, and may not take STAT 263 in place of STAT 269.

- Students in the MATH-M-BSH program must take MATH 210, MATH 231 and MATH 281, and may not replace MATH 210 with MATH 211 or replace MATH 231 with MATH 225.

3. COURSES FOR MEDIALS, MINORS, AND GENERAL PROGRAMS

For Mathematics or Statistics medials, minors, or general programs, one can replace many of core courses for majors and specializations. Making such substitutions may result in not having the prerequisites for some upper-year courses.



- We plan to offer MATH 211 in 2017–18, but not in 2018–19.
- STAT 268 may be replaced by STAT 351, and STAT 269 may be replaced by STAT 263.
- STAT 263 can be taken in either the Fall or Winter semester. STAT 263 is also available as an online course through [Continuing and Distance Studies](#).

4. UPPER-YEAR COURSES

- Students should keep in mind that some of the 300- and 400-level courses are not offered every year and that many 400-level courses may be taken in third year.
- Graduate courses at the 800-level are available to Level 4 students who have an excellent academic record and obtain permission from the department.

- Students in Mathematics Major Program are encouraged to take all of the courses from at least one of the following foci.

Focus	Courses			
Actuarial Mathematics	MATH 384	MATH 385	STAT 353	STAT 361
Algebra	MATH 310	MATH 413	MATH 414	MATH 418
Analysis	MATH 326	MATH 328	MATH 421	MATH 434
Applied Mathematics	MATH 326	MATH 334	MATH 335	MATH 434
Business	MATH 337	STAT 361	STAT 463	MATH 401
Communications and Coding	MATH 406	MATH 418	MATH 474	MATH 477
Control Theory	MTHE 332	MTHE 430	MATH 439	MTHE 472
Data Analysis	STAT 361	STAT 462	STAT 463	STAT 473
Discrete Mathematics	STAT 353	MATH 401	MATH 402	MATH 434
Education/Teaching	MATH 311	MATH 382	MATH 387	MATH 402
Geometry	MATH 341	MATH 387	MATH 427	MATH 413
Mathematical Biology	BIOM 300	MATH 339	MATH 427	STAT 455
Mathematical Physics	MATH 341	MATH 421	MATH 427	MATH 436
Probability	MATH 328	STAT 353	STAT 455	MATH 474