

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

Advice for students in third or fourth-year during 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. 300- AND 400-LEVEL COURSES IN 2017–18

The Department of Mathematics & Statistics plans to offer the following courses in 2017–18.

Number	Name	Term	Instructor
MATH 310	Group Theory	F	Roth
MATH 326	Functions of a Complex Variable	F	Bogoyavlenskij
MATH 334	Mathematical Methods for Engineering and Physics	F	Lewis
MATH 338	Fourier Methods for Boundary Value Problems	F	Bogoyavlenskij
STAT 351	Probability I	F	TBD
STAT 361	Applied Methods in Statistics I	F	Levit
MATH 382	Mathematical Explorations	F	Murty
MATH 384	Mathematical Theory of Interest	F	Li
MATH 402	Enumerative Combinatorics	F	Smith
MATH 418	Number Theory and Cryptography	F	Kani
MTHE 430	Modern Control Theory	F	Mansouri
STAT 455	Stochastic Processes and Applications	F	Takahara
STAT 462	Computational Data Analysis	F	Sadeghkhan
STAT 463	Fundamentals of Statistical Inference	F	Levit
MATH 474	Information Theory	F	Alajaji
MATH 328	Real Analysis	W	Bogoyavlenskij
MTHE 332	Introduction to Control	W	Gharesifard
MATH 335	Mathematics of Engineering Systems	W	Yuksel
MATH 339	Evolutionary Game Theory	W	Magpantay
STAT 353	Probability II	W	Takahara
MATH 385	Life Contingencies	W	<i>Empire Life</i>
MATH 414	Introduction to Galois Theory	W	Yui
MATH 427	Introduction to Deterministic Dynamical Systems	W	Offin
MATH 439	Lagrangian Mechanics, Dynamics, and Control	W	Lewis
STAT 471	Experimental Design	W	Lin
MTHE 472	Control of Stochastic Systems	W	Yuksel
MATH 477	Source Coding and Quantization	W	Alajaji
STAT 486	Survival Analysis	W	Jiang
STAT 499	Topics in Statistics	W	Sadeghkhan
MATH 499	Topics in Mathematics	W	Smith

Graduate courses at the 800-level are available to Level 4 students who have an excellent academic record and obtain permission from the department.

2. ALTERNATE YEAR COURSES

- The following courses will be offered in 2017–18 (provided there is sufficient enrolment), and will likely **not** be offered in 2018–19.

MATH 211, MATH 382, MATH 402, MATH 414, MATH 418, MATH 427,
STAT 471.

- The department does not plan to offer the following courses in 2017–18, but we hope to offer them in 2018–19.

BIOM 300, MATH 311, MATH 337, MATH 341, MATH 387, MATH 401,
MATH 406, MATH 413, MATH 421, MATH 436, STAT 464, STAT 473.

3. FOCI FOR MATHEMATICS MAJORS

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 464
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