Mathematics Course Flow for Management, Economics, or Finance at King's

Choose the pathway that is applicable to your situation

If you are pursuing MOS, Finance or Economics, passed high school calculus (MCV4U) and want only to take minimal math courses

First Year
- Math 1229A/B
- Math 1230A/B

If you are pursuing MOS, Finance or Economics, have not passed high school calculus, but have taken 11U and/or 12U functions

First Year
- Math 1229A/B
- Math 0110A
- Math 1230B

If you are pursuing MOS, Finance or Economics, have not passed 11U functions

First Year
- Math 0109A
- Math 0110B
- Math 1229B

Summer or Second Year
- Math 1230A/B

For MOS, Finance, Economics if you enjoy math, earned 85+ in high school calculus (MCV4U) and want a challenge

First Year
- Calculus 1000A/B
- Math 1600B

Summer or Second Year
- Calculus 1301A
- Optional

For MOS, Finance, Economics and you like math, but are more cautious: this path introduces easier mathematics courses first

First Year
- Math 1229A
- Math 1230A
- Math 1600B
- Calculus 1000B
- Optional

Summer or Second Year
- Calculus 1301A
- Optional

Second Year Math

- Statistics 2035, Or Economics 2122A + 2123B Or Economics 2222A + 2223B (see checklists for each module)
- Actuarial Science 2053 (required by some modules)
- ADS 2298B (if in analytics minors)
- Math 2211A/B, Calculus 2302A, Calculus 2303B (if sufficient demand)

Psychology

- Math 1228A/B
- Statistics 1024A/B

Note: these both require any grade 12 mathematics.

Take math 0109A if missing this prerequisite.

Can be taken as electives for MOS or Economics (and may count toward progression requirements for some non-honors modules)

First Year Course Information (brief)

Math 0109A: preparatory mathematics (functions, finance, finite)
Math 0110A/B: introductory calculus (limits, differentiation, optimization)
Math 1228A/B: finite mathematics (counting, permutations, combinations, probability)
Math 1229A/B: introductory vector and matrix algebra (without proofs)
Math 1230A/B: calculus for management (multivariable optimization, integration, modeling)
Math 1600A/B: linear algebra (proof-based and challenging)
Calculus 1000A/B: higher-level course on introductory calculus that explores both foundations and applications (limits, differentiation, optimization, integration, area, volume)
Calculus 1301A: continuation of calculus 1000A/B (more integration, sequences, series, power series, convergence, calculus of polar and parametric curves, differential equations)
Statistics 1024A/B: intro to statistics (inference, correlation, hypothesis testing, regression)

Second Year Course Information (brief)

Statistics 2035: general statistics for business and social science
Economics 2122A: econometrics I (non-honors statistics for economics and finance)
Economics 2123B: econometrics II(continuation of Economics 2122A)
Economics 2222A: econometrics I (honors statistics for economics and finance)
Economics 2223B: econometrics II continuation of Economics 2222A)
Actuarial Science 2053: mathematics for financial analysis
ADS 2298B: operations research (computer programming, optimization, decision analysis, simulations, and applications)
Math 2211A/B: continuation of math 1600A/B (not typically offered)
Calculus 2302A: vector calculus with multivariable optimization (not typically offered)
Calculus 2303B: integral calculus of several variables (not typically offered)