

Recommended Intermediate Units for different disciplines and interests

(black = strong recommendation, grey = further suggestion)

	Algebra	Analysis	Engineering	Financial Mathematics	Geometry and Topology	Information Technology	Mathematical Biology	Nonlinear and Complex Systems	Physics	Statistics	Teaching	
Semester 1												
MATH2061/2961												Linear Mathematics and Vector Calculus
MATH2962												Real and Complex Analysis
MATH2069/2969												Discrete Mathematics and Graph Theory
STAT2011/2911												Probability and Statistical Methods
Semester 2												
MATH2065/2965												Introduction to Partial Differential Equations
MATH2968												Algebra
MATH2068/2988												Number Theory and Cryptography
MATH2070/2970												Optimization and Financial Mathematics
STAT2012/2912												Statistical Tests

Notes:

1. Corresponding normal and advanced units are listed together (second digit 0 = normal, 9 = advanced). In many cases these are taught as separate units, and may have slightly different names.
2. Consult the Intermediate Mathematics and Statistics online handbook for detailed information about these units, including their prerequisites and assumed knowledge. You should also plan ahead, by checking the Senior Mathematics and Statistics online handbook to see which intermediate units are assumed knowledge for the senior units you intend to take.
3. Some students in the Engineering Faculty are required to take MATH2067 Differential Equations and Vector Calculus for Engineers instead of MATH2061.

Recommended Senior Units for different disciplines and interests

(black = strong recommendation, grey = further suggestion)

	Algebra	Analysis	Engineering	Financial Mathematics	Geometry and Topology	Information Technology	Mathematical Biology	Nonlinear and Complex Systems	Physics	Statistics	Teaching	
Semester 1												
MATH3961	Grey	Black			Black			Grey		Grey		Metric Spaces (Adv)
MATH3962	Black										Grey	Rings, Fields, Galois Theory(Adv)
MATH3063/3963		Grey	Grey				Black	Black	Grey		Black	Differential Equations and Biomathematics
MATH3066	Grey					Black					Grey	Algebra and Logic
MATH3974			Grey				Grey	Black	Black			Fluid Dynamics(Adv)
MATH3076/3976			Grey	Grey			Black	Grey	Grey		Grey	Mathematical Computing
STAT3011/3911				Black			Grey	Grey		Black		Stochastic Processes and Time Series
STAT3012/3912				Black						Black		Applied Linear Models
Semester 2												
MATH3061	Grey	Grey			Black						Black	Geometry and Topology
MATH3068		Grey									Grey	Analysis
MATH3968	Grey	Grey			Black			Grey	Grey			Differential Geometry(Adv)
MATH3969		Black		Grey				Grey		Grey		Measure Theory and Fourier Analysis(Adv)
MATH3075/3975				Black						Grey		Financial Mathematics
MATH3977					Grey			Black	Black			Lagrangian and Hamiltonian Dynamics(Adv)
MATH3078/3978			Grey	Grey	Grey		Black	Black	Black			Partial Differential Equations and Waves
STAT3013/3913				Grey						Black		Statistical Inference
STAT3014/3914				Grey						Black		Applied Statistics

Notes:

1. Corresponding normal and advanced units are listed together (second digit 0 = normal, 9 = advanced). In some cases these are taught as separate units, and may have slightly different names.
2. Consult the Senior Mathematics and Statistics online handbook for detailed information about these units.