

# FOURTH YEAR HONOURS COURSES

for 2003 so “even” years below are not applicable to 2003

Sem	Year	Code	Name	Contact
2		MATH4090	Computation in financial mathematics	gac
1		MATH4091	Financial calculus	hbt/ejt
1		MATH4101	Advanced mathematical methods and models	ajb
2	even	MATH4102	Waves & Solitons	ajb
2		MATH4103	Mathematical foundations of quantum mechanics	mdg
1	odd	MATH4104	Advanced Hamiltonian dynamics & chaos	cah
1		MATH4105	General relativity	yzz
1		MATH4201	Applications of scientific computation	J. Banks
2		MATH4202	Advanced techniques in numerical linear algebra	keg
1		MATH4203	Issues in visualization	L. Kastanis
1		MATH4204	Issues in computational biology and bioinformatics	T. Huber
2	odd	MATH4301	Advanced algebra	bdj
2	odd	MATH4302	Combinatorial designs	dmd/ejb
1	even	MATH4303	Advanced combinatorics	pa/db
1	odd	MATH4401	Advanced analysis	ejt
1	even	MATH4402	Ordinary differential equations III/IVH	hbt
2	odd	MATH4403	Partial differential equations III/IVH	jhc
2	odd	MATH4404	Functional analysis IIIH/IVH	pmd
2	even	MATH4405	Measure theory	hbt
1		STAT4001	Non-linear models & experimental designs	jae
2		STAT4002	Multivariate analysis & inference for random processes	gjm/rjw
2		STAT4003	Probability & Stochastic processes	pkp
Level 3 courses which count as honours courses				
2		MATH3103	Algebraic methods of mathematical physics	mdg
1		MATH3104	Biomathematics	hpp
1	even	MATH3301	Graph theory & geometry	ejb/dmd
1	odd	MATH3302	Coding & cryptography	pa
1	even	MATH3304	Set theory	bdj
At most TWO of other level 3 courses, such as the following				
2		MATH3090	Financial Mathematics	gac/mrb
1		MATH3101	Methods & Models of applied mathematics A	cah
2		MATH3102	Methods & Models of applied mathematics B	yzz
1		MATH3201	Approximation theory with algorithmic applications	gac
1		MATH3202	Operations research & mathematical programming	keg
2		MATH3203	Scientific-computation: algorithmic design & implementation	pb
1		MATH3303	Abstract algebra & number theory	bdj
2		MATH3305	Mathematical logic	bdj
1		MATH3401	Complex analysis	asj
1		MATH3402	Functional analysis	asj
2		MATH3403	Partial differential equations	asj
2		MATH3404	Optimisation theory	hbt
1		STAT3001	Statistical inference III	gjm
2		STAT3002	Applied statistics	rcw
2		STAT3003	Experimental design & surveys	keb
2		STAT3004	Probability methods & stochastic processes	dpc