

**NCSU Applied Mathematics BS and  
Masters of Financial Math\***  
Sample Course List for 5-year program

SEMESTER	COURSE	COURSE TITLE	CR-HRS
FRESHMAN YEAR			
Advanced Placement and Dual Enrollment Credits			
	MA 141	CALCULUS I	4
			4 AP HOURS TOTAL
FALL SEMESTER	MA 241	CALCULUS II	4
	PMS 100	PERSPECTIVES ON LEARNING	1
	ENG 101	ACADEMIC WRITING & RESEARCH	4
	PE 1**	PHYSICAL EDUCATION	1
		HUMANITIES & SOCIAL SCIENCES (2)	6
			16 HRS TOTAL
SPRING SEMESTER	MA 242	CALCULUS III	4
	MA 225	FOUND ADVANCE MATHEMATICS	3
	CH 101	CHEMISTRY - MOLECULAR SCIENCE	3
	CH 102	GENERAL CHEMISTRY LAB	1
	PE2**	PHYSICAL EDUCATION	1
		HUMANITIES & SOCIAL SCIENCES	3
			15 HRS TOTAL
SOPHOMORE YEAR			
FALL SEMESTER	MA 341	APPLIED DIFFERENTIAL EQUATION I	3
	MA 407	MODERN ALGEBRA FOR MAJORS	3
	PY 205	PHYSICS ENGINEERS & SCIENTISTS I	4
	ST 380	PROBABILITY & STATISTICS FOR THE PHYS. HUMANITIES & SOCIAL SCIENCES	3
			3
			16 HRS TOTAL
SPRING SEMESTER	MA 405	LINEAR ALGEBRA & MATRICES	3
	MA 425	MATH ANALYSIS I	3
	PY 208	PHYSICS ENGINEERS & SCIENTISTS II	4
		HUMANITIES & SOCIAL SCIENCES (2)	6
			16 HRS TOTAL
JUNIOR YEAR			
FALL SEMESTER	MA 116	INTRO SCIENTIFIC PROGRAMMING	3
	MA 401	APPLIED DIFFERENTIAL EQUATIONS II	3
	ENG 332	COMMUNICATION FOR BUSINESS & MANAGEMENT	3
		APPLIED ELECTIVE (BUS/FINANCE/ECON COURSE)	3
		FREE ELECTIVES (2)	6
			18 HRS TOTAL

SPRING SEMESTER	MA 421	INTRO TO PROBABILITY	3
	MA 412	LONG-TERM ACTUARIAL MODELS	3
		APPLIED ELECTIVE (BUS/FINANCE/ECON COURSE)	3
		HUMANITIES & SOCIAL SCIENCES	3
		FREE ELECTIVES	5
			17 HRS TOTAL
SENIOR YEAR			
FALL SEMESTER	MA 546	PROBABILITY STOCH PROC I	3
	ECG 590I	SPTP-ASSET PRICING	3
	IE 711	CAP INVES ECO ANAL	3
		APPLIED ELECTIVE (BUS/FINANCE/ECON COURSE)	3
			12 HRS TOTAL
SPRING SEMESTER	MA 547	FINANC MATHEMATICS	3
	MA 790C	COMP. METHODS IN ECONOMICS AND FINANCE	3
	ST 522	STATISTICAL THEORY II	3
		APPLIED ELECTIVE (BUS/FINANCE/ECON COURSE)	3
			12 HRS TOTAL
		AP & CREDIT HRS (FIRST 4 YEARS)	126 HRS TOTAL
GRADUATE YEAR			
FALL GRADUATE		ADVISED ELECTIVES (4)	12
			12 SEMESTER HRS
SPRING GRADUATE	MA 689	INTERNSHIP	3
			3 SEMESTER HRS
			141 TOTAL HRS

\*Course list for majors as of 2006. Curriculum more recently revised may not be satisfied.

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