

**Mathematics and Statistics Double Major at NCSU\***

(with a focus on Actuarial Science)

Sample Course List for 4-year program

SEMESTER	COURSE	TITLE	CR-HRS
FRESHMAN YEAR			
FALL SEMESTER	MA 141	CALCULUS I	4
	CH 101	CHEMISTRY- MOLECULAR SCIENCE	3
	CH 102	GENERAL CHEMISTRY LAB	1
	ST 101	STATISTICS BY EXAMPLE	3
	E 115	ORIENTATION	1
		HUMANITIES & SOCIAL SCIENCES	3
			15 HRS TOTAL
SPRING SEMESTER	MA 241	CALCULUS II	4
	CH 201	CHEMISTRY-A QUANTITATIVE SCIENCE	3
	CH 202	QUANTITATIVE CHEMISTRY LAB	1
	ENG 101	ACADEMIC WRITING RESCH	4
	PE 1**	PHYSICAL EDUCATION	1
		HUMANITIES & SOCIAL SCIENCES	3
			16 HRS TOTAL
SOPHOMORE YEAR			
FALL SEMESTER	MA 242	CALCULUS III	4
	MA 225	FOUND ADVANCE MATHEMATICS	3
	PY 205	PHYSICS ENGINEERS & SCIENTISTS I	4
	ST 301	STATISTICAL METHODS I	3
		INTRO COMPUTING	3
			17 HRS TOTAL
SPRING SEMESTER	MA 407	MODERN ALGEBRA FOR MAJORS	3
	MA 405	LINEAR ALGEBRA & MATRICES	3
	ST 302	STATISTICAL METHODS II	3
	PY 208	PHYSICS ENGINEERS & SCIENTISTS II	4
		HUMANITIES & SOCIAL SCIENCES	3
			16 HRS TOTAL
JUNIOR YEAR			
FALL SEMESTER	MA 341	APPLIED DIFFERENTIAL EQUATIONS I	3
	ST 421	INTRO MATH STATISTICS I	3
	ST 430	INTRO REGRESSION ANALYSIS	3
	ST 445	STATISTICAL COMPUTING & MANAGE	3
	EC 201	HUMANITIES & SOCIAL SCIENCES	3
			15 HRS TOTAL
SPRING SEMESTER	MA 421	INTRO TO PROBABILITY	3
	ST 422	INTRO MATHEMATICAL STATISTICS II	3
	MA 425	MATH ANALYSIS I	3
	COM 112	WRITING & SPEAKING	3
		HUMANITIES & SOCIAL SCIENCES	3
			15 HRS TOTAL

## SENIOR YEAR

FALL SEMESTER	MA 412	LONG-TERM ACTUARIAL MODELS	3
	MA 430	MATH MODELS PHYSICAL SCIENCES	3
	ENG 326	HISTORY OF ENGLISH LANGUAGE	3
	ST 435	STAT QUALITY/PRODUCTIVITY IMPROV	3
	PE 2**	PHYSICAL EDUCATION	1
		HUMANITIES & SOCIAL SCIENCES	3
			16 HRS TOTAL
SPRING SEMESTER	MA 413	SHORT TERM ACTUARIAL MODELS	3
	ST 431	INTRO EXPERIMENTAL DESIGN	3
	ENG 331	COMMUNICATION ENGR & TECH	3
	ST 432	INTRO SURVEY SAMPLING	3
		HUMANITIES & SOCIAL SCIENCES	3
			15 HRS TOTAL
			125 TOTAL HOURS

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

Contact: Undergraduate\_Mathematics@ncsu.edu, Financial\_Mathematics@ncsu.edu