AREA OF CONCENTRATION IN ACTUARIAL SCIENCE
MAJOR WORKSHEET 2005-2007

Students wishing to pursue this area of concentration must complete an application available at the following website: **http://www.morris.umn.edu/services/acad_affairs/aavarious.html#areaconcentration**
Attach the worksheet below to the application for Area of Concentration. Required signatures must be provided on the Area of Concentration form.

Actuarial Science is developed to ensure that students have the ability to:

a) Use mathematical and statistical tools to forecast and assess risk, make financial decisions, and solve complex problems
b) Be able to assess the economic consequences of actions
c) Solve complex problems when faced with uncertainty
d) Use computer programs to develop mathematical and statistical models
e) Understand financial documents
f) Be prepared for a career in actuarial science

Minimum required credits = 58

		Credits	Term
CSci 1301	Problem Solving and Algorithm Development I	4	_____
Econ 1111	Principles of Microeconomics	4	_____
Econ 1112	Principles of Macroeconomics	4	_____
Mgmt 2101	Principles of Accounting I	4	_____
Mgmt 2102	Principles of Accounting II	4	_____
Mgmt 3101	Financial Management	4	_____
Math 1101	Calculus I	5	_____
Math 1102	Calculus II	5	_____
Math 2101	Calculus III	4	_____
Math 2111	Linear Algebra	4	_____
Stat 2501	Probability and Stochastic Processes	4	_____
Stat 2611	Mathematical Statistics	4	_____
Stat 3601	Data Analysis	4	_____
Complete one:			
Stat 1601	Introduction to Statistics	4	_____
Stat 2601	Statistical Methods	4	_____
Strongly recommended additional courses:			
CSci 1302	Problem Solving and Algorithm Development II	4	_____
Econ 3201	Microeconomic Theory	4	_____
Econ 3202	Macroeconomic Theory	4	_____
Mgmt/Math 3501	Applied Deterministic Modeling for Management Science	2	_____
Mgmt/Math 3502	Applied Deterministic Modeling for Management Science	2	_____
Math 3401	Operations Research	4	_____
Math x993	Directed Study in Actuarial Science	1-5	_____

See Four-Year Plan on Reverse

Sample Four Year Plan

Area of Concentration in Actuarial Science

Year	Fall		Spring	
One	IS 1001 First Year Seminar	2	CSci 1302 Problem Solving I	4
	Engl 1011 College Writing	4	Foreign Language 1002	4
	Foreign Language 1001	4	Math 1102 Calc II	5
	Math 1101 Cal I	5	GenEd elective (Hum)	4
	Credits this term =	15	Credits this term =	17
Two	Econ 1112 Macroeconomics	4	Econ 1111 Microeconomics	4
	Mgmt 2101 Principles of Accounting I	4	Mgmt 2102 Principles of Accounting II	4
	Math 2101 Calc III	4	Stat 1601 or 2601 IntroStat/StatMethods	4
	GenEd elective (Hist)	4	GenEd elective (ArtP)	1
	Credits this term =	16	Credits this term =	13
Three	Mgmt 3101 Financial Management	4	Math 2111 Linear Algebra	4
	Math Elective from Recommended	4	Stat 2611 Mathematical Stats	4
	GenEd elective (FA)	4	Elective-Actuarial Recommended List	4
	GenEd elective (Sci or Sci-L)	4	Stats elective	4
	Credits this term =	16	Credits this term =	16
Four	Math/Stat 2501 Probability	4	GenEd elective (Global Village)	4
	Stat 3601 Data Analysis	4	GenEd elective (Sci or Sci-L)	4
	GenEd elective (Global Village)	4	Elective from Actuarial Recommended	4
	Elective	3-4	Credits this term =	12
	Credits this term =	15-16		