AREA OF CONCENTRATION IN BIOSTATISTICS
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.*

Objectives – Students should have the ability to:

a) Apply statistical methods to various health problems such as diseases and the evaluation of health polities
b) Develop statistical models to aid in the understanding of biological processes
c) Develop a general understanding of biological principles

Minimum required credits = 56

Required Courses:		**Credits**	**Term**
Biol 1101	Freshman Seminar in Biological Principles	3	_____
Biol 2101	Evolution of Biodiversity	4	_____
Biol 2111	Cell Biology	4	_____
Biol 3101	Genetics	4	_____
Biol 3121	Molecular Biology	5	_____
Math 1101	Calculus I	5	_____
Math 1102	Calculus II	5	_____
Math 2111	Linear Algebra	4	_____
Stat 1601	Introduction to Statistics	4	_____
or			
Stat 2601	Statistical Methods	4	_____
Math/Stat 2501	Probability and Stochastic Processes	4	_____
Stat 2611	Mathematical Statistics	4	_____
Stat 3601	Data Analysis	4	_____
Stat 4601	Biostatistics	4	_____
Stat 4901	Senior Seminar	1	_____

Elective: one additional course from:

Stat 3611	Multivariate Statistical Analysis	4	_____
Stat x993	Directed Study in Statistics	1-4	_____

See Sample Four-Year Plan on Reverse

Sample Four Year Plan Area of Concentration in Biostatistics

Year	Fall		Spring	
One	Biol 1101 Biological Principles (Sci)	3	Biol 2102 Evolution of Biodiversity (Sci-L)	4
	Engl 1011 College Writing (CW)	4	Math 1102 Calculus II	5
	IS 1001 First Year Seminar (FYS)	2	GenEd elective (Hum)	4
	Math 1101 Calculus I (M/SR)	5	GenEd elective (ArtP)	1-3
	Credits this term =	14	Credits this term =	14
Two	Biol 2111 Cell Biology	4	Biol 3101 Genetics	4
	Foreign Language I	4	Foreign Language II (FL)	4
	Math 2111 Linear Algebra	4	GenEd elective (FA)	4
	Stat 1601 Introduction to Statistics	4	GenEd elective (SS)	4
	Credits this term =	16	Credits this term =	16
Three	Stat 2501 Probability/Stochastic Processes	4	Biol 3121 Molecular Biology	5
	Stat 3601 Data Analysis	4	Stat 2611 Mathematical Statistics	4
	GenEd elective (Hist)	4	Stat 4601 Biostatistics	4
	Elective	4	GenEd elective (Global Village)	4
	Credits this term =	16	Credits this term =	17
Four	Stat 3611 Multivariate Stat Analysis	4	Stat elective	4
	Stat 4901 Senior Seminar	1	Elective	4
	GenEd elective (Global Village)	4	Elective	4
	Elective	4	Elective	2
	Credits this term =	13	Credits this term =	14