

University of Manitoba

Department of Statistics

Suggested courses that may be used towards the A.Stat. designation

Module	Course number, name (All STAT courses listed are 3 credit hours)
Mathematics Modules	
1. Calculus I	MATH 1690(6) Calculus, or MATH 1500(3) Introduction to Calculus and MATH 1700(3) Calculus 2
2. Calculus II	MATH 2750(6) Intermediate Calculus, or MATH 2720(3) Multivariable Calculus and MATH 2730(3) Sequences and Series.
	MATH 3740(6) Methods of Advanced Calculus
3. Linear Algebra	MATH 1300(3) Vector Geometry and Linear Algebra. MATH 2300(3) Linear Algebra 2
Statistics and probability modules	
4. Mathematical statistics	STAT 3500 Intermediate Statistical Theory 1
	STAT 3600 Intermediate Statistical Theory 2
	STAT 3050 Introduction to Probability Theory and Its Applications
	STAT 4140 Introduction to Statistical Inference
5. Linear Regression	STAT 3120 Topics in Regression Analysis
	STAT 3470 Statistical Methods for Research Workers 1
6-10. Five courses past an introductory course in statistics. One of which must be either Design of Experiment or Survey Sampling. Both are recommended.	STAT 3130 Statistical Analysis of Designed Experiments
	STAT 3170 Statistical Quality Control
	STAT 3380 An Introduction to Nonparametric Statistics
	STAT 3480 Statistical Methods for Research Workers 2
	STAT 3490 Time Series Analysis
	STAT 4170 Lifetime Data Analysis
	STAT 4520 Sampling Techniques 1
	STAT 4580 Sampling Techniques 2

	STAT 4530 Design of Experiments 1
	STAT 4590 Design of Experiments 2
	STAT 4630 Stochastic Processes
	STAT 4690 Applied Multivariate Analysis

	STAT 4700 Statistical Consulting
	STAT 7060 Advanced Theory of Probability
	STAT 7080 Advanced Statistical Inference
	STAT 7140 Linear Models
	STAT 7200 Multivariate Analysis 1
	STAT 7240 Advanced Topics 1 (Lifetime Data Analysis)
	STAT 7250 Advanced Topics 2 (Stochastic Processes)
	STAT 7260 Time Series

Computer Skills

11. Computer skills 1	COMP 1010 Introductory Computer Science
12. Computer skills 2	COMP 1020 Introductory Computer Science 2
	COMP 1260 Introductory Computer Usage 1
	COMP 1270 Introductory Computer Usage 2

Communication Skills

13. Communication skills	STAT 7220 Seminar in Statistics
	Any University of Manitoba course requiring significant a writing component as designated by (W)

Substantive Area:

14. Course 1	The Honours program in Statistics at the University of Manitoba requires 18 credit hours of courses in an area of application (other than Mathematics or Computer Science)
15. Course 2	
16. Course 3	

Approved by the Accreditation Committee 2007-06-01.