University of Saskatchewan Department of Mathematics & Statistics

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

Module	Course	
Mathematics Modules		
1. Calculus I	MATH 110 Calculus I OR MATH 176.3: Advanced Calculus I	
2. Calculus II	{MATH 116 Calculus II OR MATH 177.3: Advanced Calculus II} AND {MATH 225 Intermediate Calculus I OR MATH 276 Vector Calculus I} }	
3. Linear Algebra	MATH 164: Introduction to Linear Algebra or MATH 266: Linear Algebra II	
Statistics and probability modules		
4. Mathematical statistics	STAT 342 Mathematical Statistics AND STAT 442 Statistical Inference	
5. Linear Regression	STAT 344 Applied Regression Analysis	
6. Design of Experiments	STAT 345 Design and Analysis of Experiment	
7. Survey Sampling	STAT 348 Sampling Techniques	

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8. Electives	Three of the following: STAT 341 Probability and Stochastic Processes STAT 346 Multivariate Analysis STAT 349 Time Series Analysis STAT 443 Linear Statistical Models STAT 447 Statistical Machine Learning for Data Science STAT 410 Topics in Probability and Statistics STAT 420 Topics in Computational Statistics STAT 430 Topics in Applied Statistics	Five courses past an introductory course in statistics are required to fulfill the requirements for categories 6-8. One of them must be either STAT 345 or STAT 348. Both are recommended.
Computer Skills		
9. Computer skills 1	CMPT 141 Introduction to Computer Science	
10. Computer skills 2	CMPT 145 Principles of Computer Science Common statistical packages are integrated throughout 300+ STAT courses. For example, taking STAT 344, 345, 346, 348, 349, 447,420, 430 can meet this requirement.	

11. Communication skills	(a) Written communication Students may demonstrate their abilities in this area by submitting written reports directly to the Accreditation Committee with their A.Stat. application. As a possibility, such reports would normally be prepared in MATH 402 Honours Thesis in Mathematics or a course in the category of English Language Writing as required by the College of Arts and Science. (b) Oral communication The A.Stat. applicant's references will be contacted for information about the applicants' oral communication skills.
Substantive Area	
12. Course 1	A minor or a certificate from an area other than MATH or STAT following the University of Saskatchewan calendar; or three courses at 300+ level from an area other than MATH or STAT.
13. Course 2	
14. Course 3	

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