

York University

Department of Mathematics and Statistics

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

Module	Course	
Mathematics Modules		
1. Calculus I	MATH 1300 Differential Calculus with Applications AND MATH 1310 Integral Calculus with Applications	
2. Calculus II	MATH 2310 Calculus of Several Variables with Applications	
3. Linear Algebra	MATH 1021 Linear Algebra I AND MATH 2022 Linear Algebra II	
Statistics and probability modules		
4. Mathematical Statistics	MATH 3131 Mathematical Statistics I AND MATH 3132 Mathematical Statistics II	
5. Linear Regression	MATH 3330 Regression Analysis	
6. Design of Experiments	MATH 4730 Experimental Design	If only one of these courses is taken, the other must be replaced by a course from the list below.
7. Survey Sampling	MATH 3430 Sample Survey Design OR MATH 4731 Sampling: Design and Analysis	
8. Electives	Select three from MATH 3280 Actuarial Mathematics MATH 4330 Applied Categorical Data Analysis MATH 4830 Time Series and Spectral Analysis OR LE / ESSE 4020 Time Series and Spectral Analysis MATH 4931 Simulation and the Monte Carlo Method MATH 4034 Data Mining MATH 4130K Survival Analysis MATH 4130B Topics in Probability and Statistics: Introduction to the Theory and Methods of Time Series Analysis MATH 4230 Nonparametric	If MATH 4931 is chosen as one of the three courses required to satisfy module 8, it MAY NOT be used to satisfy module 10

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	<p>Methods in Statistics MATH 4280 Risk Theory – Loss Models and Risk Measures MATH 4281 Risk Theory – Ruin and Credibility MATH 4330 Applied Categorical Data Analysis MATH 4630 Applied Multivariate Statistical Analysis MATH 4430 Stochastic Processes MATH 4930A Topics in Applied Statistics: Statistical Quality Control</p>	
Computer Skills		
9. Computer skills I	MATH / CSE / LE / EECS 1560 Introduction to Computing for Mathematics and Statistics	
10. Computer skills II	MATH 4931 Simulation and the Monte Carlo Method OR MATH 4939 Statistical Data Analysis Using SAS and R	MATH 4931 may be used in EITHER module 8 or module 10, but not both
Design of Experiments		
11. Communication skills	WRIT 1702 OR MATH 4000 Individual Project	
Substantive Area		
12. Course 1	A minor in an area other than Statistics following the York University calendar OR three courses at the 3000+ level in an area other than Statistics (e.g. economics, biology, pure mathematics, sociology, psychology...). At York, MATH courses with a third digit of 3 are classified as Statistics courses.	
13. Course 2		
14. Course 3		

Expiry date: 17 February 2022 .