York University

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

Module	Course	
Mathematics Modules		
1. Calculus I	{MATH 1013 Applied Calculus I OR MATH 1300 Differential Calculus with Applications} AND {MATH 1014 Applied Calculus II OR MATH 1310 Integral Calculus with Applications}	
2. Calculus II	{MATH 2015 Applied Multivariate and Vector Calculus OR 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	
8. Electives	Select three from MATH 3280 Actuarial Mathematics MATH 3333 Data Analytics: A Hands-on Approach MATH 4130B Topics in Probability and Statistics: Introduction to the Theory and Methods of Time Series Analysis MATH 4130K Survival Analysis MATH 4280 Risk Theory – Loss Models and Risk Measures MATH 4281 Risk Theory –	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

	Ruin and Credibility MATH 4330 Applied Categorical Data Analysis MATH 4430 Stochastic Processes MATH 4630 Applied Multivariate Statistical Analysis MATH 4931 Simulation and the Monte Carlo Method	
Computer Skills		
9. Computer skills I	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 four courses at the 3000+ level in an area other than Statistics (e.g. economics, biology, pure mathematics, mathematical biology, sociology, psychology...). Note that at York, MATH courses with a third digit of 3 are classified as Statistics courses and cannot be used for this module.	
13. Course 2		
14. Course 3		
14. Course 4		

Renewal Date: 2027-03-27