Carleton University School of Mathematics and Statistics

Module	Accredited Courses
Mathematics Modules	
1. Calculus I	MATH 1007 (Elementary Calculus I) or MATH 1052 (Calculus and Introductory Analysis I)
2. Calculus II	MATH 2007 (Elementary Calculus II) or MATH 2052 (Calculus and Introductory Analysis II)
3. Linear Algebra	MATH 1107 (Linear Algebra I), or MATH 1152 (Introductory Algebra I), or MATH 2107 (Linear Algebra II)
Statistics and Probability Modules (7 courses)	
4. Mathematical Statistics	(i) STAT 3508 (Elements of Probability Theory) or STAT 3558 (Elements of Probability Theory, Honours) and (ii) STAT 3509 (Mathematical Statistics) or STAT 3559 (Mathematical Statistics, Honours)
5. Linear Regression	STAT 3503 (Regression Analysis) or STAT 3553 (Regression Modeling, Honours)
6. Design of Experiments	STAT 3504 (Analysis of Variance and Experimental Design) or STAT 4504 (Statistical Design and Analysis of Experiments, Honours)
7. Survey Sampling	STAT 3507 (Sampling Methodology) or STAT 4502 (Survey Sampling, Honours)
Note	If only one of (6) or (7) is fulfilled, the other must be replaced by a course from the elective list.

8,9,10. Statistical Electives (Select three from)	STAT 3506 (Stochastic Process and Applications) STAT 4500 (Parametric Estimation) STAT 4503 (Applied Multivariate Analysis) STAT 4506 (Nonparametric Methods) STAT 4507 (Statistical Inference) STAT 4508 (Stochastic Models) STAT 4555 (Monte Carlo Simulation) STAT 4601 (Data Mining I) STAT 4603 (Time Series and Forecasting) STAT 4604 (Statistical Computing) STAT 4607 (Bayesian Statistical Analysis)
Computer Skills (11,12)	COMP 1005 (Introduction to Computer Science I) COMP 1006 (Introduction to Computer Science II)
Communication Skills	Any writing intensive course offered at Carleton University
Substantive Area	A three-course minor from another department, as defined in the Carleton University Calendar, or three 3000-level or higher courses in an area outside Mathematics and Statistics (for students in the Concentration in Actuarial Science, courses in Actuarial Science may be used to satisfy this requirement). A co-op work term can be used in lieu of one course.

Renewal date 2031-10-25