University of British Columbia, Vancouver
Department of Statistics

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

Module	Course
Mathematics	
Calculus	MATH 200 Calculus III OR MATH 226 Advanced Calculus I
Linear Algebra	ONE OF MATH 111 Matrix Algebra MATH 131 Honours Linear Algebra MATH 221 Matrix Algebra* MATH 223 Honours Linear Algebra MATH 307 Applied Linear Algebra
Statistics and probability	
Probability	MATH/STAT 302 Introduction to Probability
Statistical theory	
Statistical modelling	STAT 306 Finding Relationships in Data
Graphical data analysis	DSCI 100 Introduction to Data Science
Design of studies I	STAT 404 Design and Analysis of Experiments
Design of studies II	STAT 344 Sample Surveys
Electives	**Select three from** STAT 300 Intermediate Statistics for Applications STAT 301 Statistical Modelling for Data Science STAT 405 Bayesian Statistics STAT 406 Methods for Statistical Learning STAT 443 Time Series and Forecasting STAT 447 Special Topics in Statistics STAT 450 Case Studies in Statistics STAT 460 Statistical Inference I STAT 461 Statistical Inference I

*The Department of Mathematics at UBC-V recently created 1xx equivalents to their linear algebra 2xx courses. Present students may take either version.

Computer Skills	
Computer skills: Programming	CSPC 110 Computation, Programs, and Programming OR BOTH CPSC 103 Introduction to Systematic Program Design AND CPSC 107: Systematic Program Design
Computer skills: Data structures	CPSC 210 Software Construction OR MATH 210 Introduction to Mathematical Computing
Statistical Software	STAT 306 Finding Relationships in Data OR STAT 301 Statistical Modelling for Data Science
Non-mathematical Skills	
Effective technical writing and presentations	ONE OF SCIE 113 First-Year Seminar in Science SCIE 300 Communicating Science STAT 450 Case Studies in Statistics
Teamwork and collaboration:	STAT 306 Finding Relationships in Data OR STAT 450 Case Studies in Statistics
Planning for data collection:	STAT 344 Sample Surveys STAT 404 Design and Analysis of Experiments
Data Management:	DSCI 100 Introduction to Data Science
Substantive Area	
12. Course 1	A minor in another area, or by any set of related three upper-level courses. Most minors are acceptable except those whose application content may be minimal. Minors in applicable mathematics (*e.g.* operational research, applied mathematics) and actuarial science are acceptable.
13. Course 2	
14. Course 3	

Renewal date: 2031-05-29