

Simon Fraser University
Department of Statistics and Actuarial Science

**Suggested courses that may be used towards the A.Stat. designation
2019**

Module	Accredited Course
Mathematics Modules	
1. Calculus I	MATH 150 – Calculus I with review MATH 151 – Calculus I; or MATH 154 – Calculus I for the Bio Sci; or MATH 157 – Calculus I for the Social Sci
2. Calculus II	MATH 152 – Calculus II; or MATH 155 – Calculus II for the Bio Sci;; or MATH 158 – Calculus II for the Social Sci
3. Linear Algebra	MATH 232 – Applied Linear Algebra or MATH 240 – Algebra I – Linear Algebra
Statistics and probability modules	
4. Mathematical statistics	STAT 330 – Introduction to Mathematical Statistics or STAT 450 – Statistical Theory; or STAT 830 – Statistical Theory I (graduate) or STAT 831 – Statistical Theory II (graduate)
5. Linear Regression	STAT 350 – Linear Models in Applied Statistics STAT 850 – Linear Models and Applications
6. Design of Experiment	STAT 430 – Experimental Design or STAT 850 – Linear Models
7. Survey Sampling	STAT 410 – Sample Surveys

8. Stat Elective	Select an additional three courses.
9. Stat Elective	
10. Stat Elective	STAT 380 – Stochastic Processes; STAT 390 – Special Topics,
	<p>STAT 475 – Applied Discrete Data Analysis, STAT 460 – Bayesian Statistics STAT 495 – Special Topics,</p> <p>STAT 445 – Applied Multivar Analysis STAT 485 – Applied Time Series</p> <p>STAT 851 – General Linear Models STAT 855 – Lifetime Data Analysis, STAT 832 – Applied Probability Models, STAT 890 – Selected Topics,</p> <p>STAT 830 – Statistical Theory I STAT 840 – Stat Genetics STAT 841 – Advanced Design of Experiments STAT 843 – Functional Data Analysis STAT 850 – Linear Models STAT 852 – Modern Methods in Statistics STAT 853 – Statistical Computing STAT 854 – Biomedical Studies STAT 856 – Longitudinal Methods STAT 857 – Space-Time Models</p> <p>ACMA (Actuarial Mathematics) courses at 300+ level</p>

Computer Skills	
11. Computer skills 1	CMPT 125 - Introduction to Computing Science and Programming II, or CMPT 129 - Introduction to Computing Science and Programming for Mathematics and Statistics
12. Computer skills 2	STAT 341 - Introduction to Statistical Computing and Exploratory Data Analysis – R, and STAT 342 - Introduction to Statistical Computing and Exploratory Data Analysis - SAS
Communication Skills	
13. Communication skills	Any Writing Intensive course offered at SFU at 300+ level. Examples: STAT 300W – Statistics Communication, or STAT 811 – Statistical Consulting I, and STAT 812 – Statistical Consulting II
Substantive Area	
14. Course 1	Three courses at 300+ level from one area other than STAT, MATH, or MACM.
15. Course 2	
16. Course 3	

Approved by the Accreditation Committee 2019-05-26.