

## Western University Department of Statistical and Actuarial Sciences

List of accredited courses that may be used towards the A.Stat. designation.  
(70% must be achieved for a course to be counted towards the A.Stat. designation.)

Module	Accredited Courses
<b>Mathematics Modules (3 courses)</b>	
1. Calculus I	Calculus 1000 – Calculus I; or Calculus 1500 – Calculus I for the Mathematical Sciences
2. Calculus II	Calculus 1301 – Calculus II; or Calculus 1501 – Calculus II for Math. and Phys. Sciences
3. Linear Algebra	Mathematics 1600 – Linear Algebra I
<b>Statistics and Probability Modules (7 courses)</b>	
4. Mathematical Statistics	SS 3858 – Mathematical Statistics
5. Linear Regression	SS 3859 – Regression
6-10. Five courses among those listed, one of which must be <i>Experimental Design or Sampling Theory and Methods</i> .	SS 4846 – Experimental Design SS 4853 – Sampling Theory and Methods SS 3843 – Introduction to Study Design SS 3860 – Generalized Linear Models SS 3869 – Applied Linear Models SS 4654 – Markov Chains with Applications SS 4850 – Advanced Data Analysis SS 4860 – Advanced Regression SS 4861 – Time Series SS 3657 – Intermediate Probability SS 9657 – Advanced Probability
<b>Computer Skills (2 courses)</b>	
11-12. Two courses among those listed	SS 2864 – Statistical Programming DS 3000 – Introduction to Machine Learning SS 4864 – Advanced Statistical Computing
<b>Communication Skills (1 course)</b>	
13. Communication Skills One course among those listed.	SS 4844 – Data Analytics Consulting SS 4960 – Business Skills for Financial Professionals, Data Scientists and Other Quantitative Professionals SS 4999 – Project in Statistical Sciences
<b>Substantive Area (3 courses)</b>	
14. Course 1	A minor from another department following the academic calendar. Please contact the SSC if you have a minor in Mathematics to ensure that it will be acceptable; or Three courses at 3000 <sup>+</sup> level from a <i>single</i> area other than Statistics (e.g., Economics, Sociology).
15. Course 2	
16. Course 3	

Renewal Date: March 05, 2031