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 Course
Mathematics Modules (3 courses)	
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 the Math. and Phy. Sci.
3. Linear Algebra	Mathematics 1600 – Linear Algebra I
Statistics and Probability Modules (7 courses)	
4. Mathematical Statistics	SS 3858 – Mathematical Statistics; or SS 3657 – Intermediate Probability; or SS 9657 – Advanced Probability
5. Linear Regression	SS 3859/9859 – Regression
6-10. Five courses past an introductory course in statistics. One of which must be either *Experimental Design* or *Sampling Theory and Methods*. Both are recommended.	SS 4846/9846 – Experimental Design; SS 4853/9853 – Sampling Theory and Methods;
	SS 4521/9521 – Advanced Financial Modelling; SS 4654/9654 – Markov Chains with Applications; SS 4850/9850 – Advanced Data Analysis; SS 4861/9861 – Time Series; SS 9055 – Generalized Linear Models; SS 9907 – Bayesian Statistics and MCMC; SS 9909 – Asymptotic Methods in Stat. & Act. Sci.; SS 9924 – Advanced Regression; SS 9945 – Longitudinal Data Analysis; SS 9961 – Special Topics in Mathematical Finance
Computer Skills (2 courses)	
11-12. Two courses covering common statistical packages	SS 2864 – Statistical Programming; or SS 3850 – Data Analysis; or SS 9864 – Statistical Computing
Communication Skills (1 course)	
13. Communication Skills	SS 9045 – Teaching Statistics; or SS 9980 – Colloquium; or Any writing intensive course offered at Western; or Completion of a final project towards a M.Sc. in Statistics
Substantive Area (3 courses)	
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+ level from a *single* area other than Statistics. (e.g., French, sociology, economics, actuarial science, etc.)
15. Course 2	
16. Course 3	

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