

# University of Regina

## Department of Mathematics and Statistics

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

Module	Course	
<b>Mathematics Modules</b>		
<b>1. Calculus I</b>	MATH110 – Calculus I AND MATH111 – Calculus II	
<b>2. Calculus II</b>	MATH213 – Vector Calculus	
<b>3. Linear Algebra</b>	MATH122 – Linear Algebra I	
<b>Statistics and probability modules</b>		
<b>4. Mathematical Statistics</b>	STAT251 – Introduction to Probability AND STAT252 – Introduction to Statistical Inference	
<b>5. Linear Regression</b>	STAT354 – Linear Statistical Methods	
<b>6. Design of Experiments</b>	STAT485 – Design and Analysis of Experiments	(If only one of these two courses is taken, the other must be replaced by a course from the list below.)
<b>7. Survey Sampling</b>	STAT357 – Sampling Theory	
<b>8. Electives</b>	<b>Select three from</b>  STAT300 – Statistical Learning and Predictive Modeling STAT301 – Introduction to Statistical Computing STAT362 – Bayesian Statistics STAT418 – Time Series Analysis and Forecasting STAT426 – Survival Analysis STAT441 – Stochastic Calculus with Applications to Finance STAT451 – Advanced Probability STAT452 – Advanced Statistical Inference STAT456 – Applied Stochastic Processes STAT470 – Bootstrap Methods STAT495AE – Large Sample Methods	

# University of Regina

## Department of Mathematics and Statistics

<b>Computer Skills</b>	
<b>9. Computer skills I</b>	CS110 – Programming and Problem Solving AND CS115 – Object-Oriented Design
<b>10. Computer skills II</b>	CS210 – Data Structures and Abstractions  Common statistical packages are integrated throughout the STAT300, 301, 354, 357, 362, 418 courses with directed computer laboratory sessions. Completion of any two of these courses would satisfy this requirement.
<b>Communication Skills</b>	
<b>11. Communication skills</b>	ENG110 – Critical Reading and Writing II
<b>Substantive Area</b>	
<b>12. Course 1</b>	A minor from another area other than MATH or STAT following the University of Regina calendar OR three courses at the 300+ level from an area other than MATH or STAT.  Students who complete a co-op term may substitute work experience for some or all of these requirements. These courses are formally listed as: STAT051 – Statistics Co-Op Work Term #1 STAT052 – Statistics Co-Op Work Term #2 STAT053 – Statistics Co-Op Work Term #3 STAT054 – Statistics Co-Op Work Term #4
<b>13. Course 2</b>	
<b>14. Course 3</b>	

**Note: A minimum final grade of 70% is required for every course listed above.**

Date of Expiration: Dec 20, 2028.