

Program: Statistics

Report: Proposed program map

Standard: B.Sc. (Major, Specialist, Applied Statistics Specialist)

Date/Time: 2017-09-25 (updated with new course titles 2018-03-20)

Required?	Year	Course Code	Course Name	THEORY:			METHODS:			COMPUTATIONAL THINKING:				PROFESSIONAL PRACTICE:				PROBLEM SOLVING SKILLS:							
				PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 12	PLO 13	PLO 14	PLO 15	PLO 17	PLO 18	PLO 19	PLO 20				
				I	D	P	I	D	P	I	D	P	I	D	P	I	D	P	I	D	P	I	D	P	
Core	1	STA130	Introduction to Statistical Reasoning and Data Science	X					X	X		X	X			X	X							X	
Core	1	CSC108/120/148	Introduction to Computer Programming											X											
Core	1	MAT135+135/137/	Univariate Calculus																						
Core	1	MAT223	Linear Algebra																						
Core option 1	2	STA237	Probability, Statistics and Data Analysis I	X								X													
Core option 1	2	STA238	Probability, Statistics and Data Analysis II			X	X	X				X				X						X			X
Core option 2	2	STA257	Probability and Statistics I	X								X													
Core option 2	2	STA261	Probability and Statistics II			X	X	X				X				X						X			X
Core	2	MAT235/237/257	Multivariate Calculus																						
Both specialists	2	STA210	Statistical Computation										X	X	X										
Core	3	STA302/3	Methods of Data Analysis (Linear models and GLM)			X	X	X						X	X	X	X	X	X	X	X	X	X	X	X
Both specialists	3	STA304/5	Data Collection			X		X		X+		X		X	X	X	X	X	X	X	X	X	X	X	X+
One of for specialists	3	STA314	Statistical Methods for Machine Learning I	X		X		X		X		X	X	X									X		X
One of for specialists	3	STA310	Topics in Statistical Computation					X				X		X											
Statistics specialist	3	STA347	Probability		X		X	X								X									X
Both specialists	3	STA355	Theory of Statistical Practice	X		X+	X+			X		X				X						X			X
	4	STA410	Statistical Computation			X+		X				X+		X									X		X
One of for core	4	STA414	Statistical Methods for Machine Learning II	X		X		X+				X+	X+	X+		X			X				X		X
One of for core	4	STA437	Methods for Multivariate Data			X		X							X	X			X	X	X				
One of for core	4	STA442	Methods of Applied Statistics			X+		X+	X+		X+				X+	X+	X+		X+	X+					X+
One of for stats spec	4	STA447	Stochastic Processes		X+												X								
One of for stats spec	4	STA452,453	Mathematical Statistics		X+	X+	X+									X									
One of for core	4	STA457	Time Series Analysis	X	X		X	X				X	X	X				X		X					
One of for core	4	STA465	Theory and Methods for Complex Spatial Data					X							X			X	X						X
One of for core	4	STA480	Fundamentals of Statistical Genetics					X							X			X	X						X
Applied specialist	4	STA490	Statistical Consultation, Communication, and Collaboration										X		X+	X+	X+	X+	X	X	X+	X	X+	X+	X+
Statistics specialist	4	STA495	Research Seminar in Statistics		X+	X+	X+	X+	X+						X+								X+	X+	X+

Note: PLO11 and PLO16 are not included because they apply only to certain Specialist programs.

I - Introduce: This course explicitly introduces this learning outcome

D - Develop: This course explicitly develops this learning outcome

P - Proficient: This course explicitly reinforces this learning outcome to the level of proficiency expected of a graduating student (X+ indicates a graduating student from a specialist program)