

# Statistics, BA/BS



## University of Wyoming, 2016-17

Freshman Fall Semester				Hrs	Min	Grade	Notes
			USP Communication 1	3		C	C1
			USP First-Year Seminar	3		C	FY
			A&S Core Diversity in the US	3			ASD
MATH	1400		College Algebra *	3		C	Q
			Elective	3			
Credit hours subtotal:				<b>15</b>			

Freshman Spring Semester				Hrs	Min	Grade	Notes
			USP Communication 2	3		C	C2
			USP Physical & Natural World	3			PN
COSC	1010		Introduction to Computer Science I	3		C	
STAT	2050		Fundamentals of Statistics **	4		C	Can substitute STAT 2070 (Intro Statistics for the Social Sciences).
Credit hours subtotal:				<b>13</b>			

Sophomore Fall Semester				Hrs	Min	Grade	Notes
			USP Physical & Natural World	3			PN
COSC	1030		Computer Science I	3		C	
MATH	1405		Trigonometry	3		C	
			Electives	6			
Credit hours subtotal:				<b>15</b>			

Sophomore Spring Semester				Hrs	Min	Grade	Notes
			USP Human Culture	3			H
			USP US & Wyoming Constitutions	3			V
			A&S Core Global Awareness	3			ASG
MATH	2200		Calculus I	4		C	
STAT	3050		Statistical Methods - General	3		C	
Credit hours subtotal:				<b>16</b>			

This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation, and consult with an academic advisor. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the University Catalog and consult with their academic advisor to plan accordingly.

### University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming. • Courses must be taken for a letter grade unless offered only for S/U. • University Studies Program (USP) Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

### College of Arts and Sciences requirements:

Students must take two "core" courses in addition to the USP requirements: Diversity in the United States (ASD) and Global Awareness (ASG). • No more than 60 hours in the major subject may be used toward the 120 credit hours required for graduation. • At least 30 hours in the major subject must be completed with a grade of C or better (the major may require more).

### Statistics Program Notes:

\* Requires MATH ACT  $\geq 23$ , MATH SAT  $\geq 600$ , Math Placement Exam  $\geq 3$ , or  $\geq C$  in MATH 0925. (University standard)

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Junior Fall Semester			Hrs	Min Grade	Notes
		USP Human Culture	3	H	
MATH	2205	Calculus II	4	C	
MATH	2250	Elementary Linear Algebra	3	C	
STAT	4015	Regression Analysis	3	C	
		Elective	3		
Credit hours subtotal:			<b>16</b>		

Junior Spring Semester			Hrs	Min Grade	Notes
MATH	2210	Calculus III	4	C	
STAT	4025	Design and Analysis of Experiments I	3	C	
		Upper Division Electives	3		
		Electives	6		
Credit hours subtotal:			<b>16</b>		

Senior Fall Semester			Hrs	Min Grade	Notes
		USP Communication 3	3	C	C3
STAT	4255	Mathematical Theory of Probability	3	C	
		Upper Division Statistics Electives **	6	C	
		Upper Division Elective	3		
Credit hours subtotal:			<b>15</b>		

Senior Spring Semester			Hrs	Min Grade	Notes
STAT	4265	Introduction to the Theory of Statistics	3	C	
STAT	4870	Senior Thesis	3	C	
		Upper Division Statistics Elective **	3	C	
		Upper Division Electives	6		
Credit hours subtotal:			<b>15</b>		

**TOTAL CREDIT HOURS: 121**

### Statistics Program Notes con't:

\*\* Select a minimum of three (3) courses (9 hrs) from the following:

- STAT 4045 Categorical Data Analysis (3 hrs)
- STAT 4070 Causal Models (3 hrs)
- STAT 4115 Time Series Analysis and Forecasting (3 hrs)
- STAT 4155 Fundamentals of Sampling (3 hrs)
- STAT 4300 Applied Multivariate Analysis (3 hrs)
- STAT 4350 Survey Construction and Analysis (3 hrs)
- STAT 4360 Spatial Statistics (3 hrs)
- STAT 4370 Survival Analysis (3 hrs)
- STAT 4460 Statistical Software (1 hr)
- STAT 4880 Problems in Statistics (1 - 4 hrs)
- STAT 5320 Design and Analysis of Experiments II (3 hrs)