

## STATISTICS SAMPLE PROGRAM

(Adjust as necessary for beginning Math placement)

This sample program suggests one way to navigate the curriculum in four years. You are NOT required to take every courses in the semester indicated. Many equivalent patterns are possible. There are three sample programs with Applied, Data Science, and Theoretical concentration.

### Applied Concentration

	Fall	Spring
<b>Year 1</b>	MATH 198 Calc I	STAT260 Applied Mathematics for Data Analysis
	STAT 101 Freshman Seminar	STAT 190 Basic Statistics (Fall or Spring)
		CS 170 Introduction to Computer Science I
	LSP coursework	LSP coursework
	LSP Foreign Language	LSP Foreign Language
<b>Year 2</b>	MATH 285 Matrix Algebra	STAT 270 - Probability
	STAT 210 Data Collection & Field Research	STAT 391 WE/Statistical Consulting w/Practicum
	STAT 250 Statistical Computing	
	LSP coursework	LSP coursework
<b>Year 3</b>	STAT 398 Intermediate Seminar	STAT Elective (300+)
	STAT Elective (300+)	STAT Elective (400+) - Consulting Practicum?
	JINS	
	LSP or BS coursework	LSP or BS coursework
<b>Year 4</b>	STAT 497/498 Capstone/Senior Seminar	STAT Elective (400+)
	STAT 478 Regression Analysis	
	Electives as needed	Electives as needed

**Data Science Concentration**

<b>w/ internship</b>	<b>Fall</b>	<b>Spring</b>
<b>Year 1</b>	MATH 198 Calc I	STAT/MATH 260 Applied Math for Data Analysis
	STAT 101 Freshman Seminar	STAT 190 Basic Statistics (Fall or Spring)
	CS 170 Introduction to Computer Science I	
	LSP coursework	LSP coursework
	LSP Foreign Language	LSP Foreign Language
<b>Year 2</b>	STAT 270 Probability	MATH 285 Matrix Algebra
	STAT 220 Fundamentals of Data Science	STAT 250 Statistical Computing
	LSP coursework	LSP coursework
<b>Year 3</b>	STAT 398 Intermediate Seminar	STAT 320 WE/Data Visualization
	STAT 478 Regression Analysis	CS/STAT Elective
	CS 430 Databases	
	JINS	
	LSP or BS coursework	LSP or BS coursework
<b>Year 4</b>	<i>STAT 471 Semester Internship ~12 credits total</i>	STAT 497 Senior Seminar
	<i>STAT 472 Internship Eval/Assess ~3</i>	STAT 430 Bayesian Statistics or another Elective
	<i>(includes capstone experience)</i>	STAT 420 Data Mining and Multivar. Statistics
	Electives as needed	Electives as needed

**Theoretical Concentration**

	<b>Fall</b>	<b>Spring</b>
<b>Year 1</b>	MATH 198 Calc. I	MATH 263 Calc. II
	STAT 101 Freshman Seminar	CS 170 Introduction to Computer Science I
	LSP coursework	LSP coursework
	LSP Foreign Language	LSP Foreign Language
<b>Year 2</b>	MATH 264 Calc III	MATH 357 Linear Algebra
	STAT 290 Statistics	STAT 250 Statistical Computing
	MATH 200 WE/Foundations of Math	
	LSP coursework	LSP coursework
<b>Year 3</b>	STAT 398 Intermediate Seminar	STAT 300+ Elective
	STAT 570 Math Prob and Stat I	STAT 571 Math Prob and Stat I
	JINS	
	LSP or BS coursework	LSP or BS coursework
<b>Year 4</b>	STAT 497/498 Capstone/Senior Seminar	STAT 400+ Elective
	STAT 478 Regression Analysis	
	MATH 471 Advanced Calculus	
	Electives as needed	Electives as needed