



# COURSE ROADMAP

## For the Statistics & Data Science Major

This roadmap is the expected 2-year path for students who plan to finish the Statistics & Data Science major by the end of Spring Quarter of their fourth year. Courses may be taken earlier than listed. However, all courses must be taken in this specific sequence.

Year 3		
<b>Fall</b>		
Course Number	Units	Course Title
STATS 20*	4.0	Introduction to Statistical Programming with R
STATS 100A**	4.0	Introduction to Probability
<b>Winter</b>		
Course Number	Units	Course Title
STATS 100B**	4.0	Introduction to Mathematical Statistics
STATS 101A***	4.0	Introduction to Data Analysis and Regression
STATS 102A	4.0	Introduction Computational Statistics with R
<b>Spring</b>		
Course Number	Units	Course Title
STATS 100C**	4.0	Linear Model
STATS 101B	4.0	Introduction to Design and Analysis of Experiment
STATS 102B	4.0	Introduction to Computation and Optimization for Statistics

\* Highly recommend taking 20 by Winter-Year 2 in order to declare Stats Major by Spring-Year 2 for priority enrollment in Fall-Year 3

\*\* 100A & 100B offered every quarter; 100C offered Fall and Spring only (no Winter)

\*\*\* 101A also offered in Spring, but primarily for Data Theory majors

*See next page for Year 4*

## Year 4

<b>Fall</b>		
<b>Course Number</b>	<b>Units</b>	<b>Course Title</b>
STATS 101C	4.0	Introduction to Statistical Models and Data Mining
STATS 102C	4.0	Introduction to Monte Carlo Methods
STATS 140XP	4.0	Practice of Statistical Consulting – Part 1
<b>Winter</b>		
<b>Course Number</b>	<b>Units</b>	<b>Course Title</b>
STATS 140XP+	4.0	Practice of Statistical Consulting – Part 1
STATS 141XP	4.0	Practice of Statistical Consulting – Part 2
Elective+++	4.0	
<b>Spring</b>		
<b>Course Number</b>	<b>Units</b>	<b>Course Title</b>
STATS 141XP++	4.0	Practice of Statistical Consulting – Part 2
Elective+++	4.0	

† Stats 140XP may be taken in Fall or Winter Quarter

†† Stats 141XP may be taken in Spring Quarter if 140XP was completed in prior Winter Quarter

††† 2 electives are required to complete the major and may be taken any quarter/year (doesn't have to be Year 4)