

## Sample Curriculum for the BA Degree in Statistics and Data Science

(120 hours needed for graduation)

Year One					
Fall Semester			Spring Semester		
Course #	Course Title	Credit Hours	Course #	Course Title	Credit Hours
APPM 1350	Calculus 1 for Engineers	4	APPM 1360	Calculus 2 for Engineers	4
APPM 1650	Python with Mathematical/Statistical Applications	4	STAT 2600	Introduction to Data Science	4
	Gen. Ed. Skills course (example: Lower-division Written Communication)	3		Outside Area of Emphasis course or Elective	3
	Gen. Ed. Distribution course (example: Natural Sciences with Lab)	4		Gen. Ed. Distribution/Diversity course (example: Arts & Humanities/US Perspective)	3
	<b>Credit Hours</b>	<b>15</b>		<b>Credit Hours</b>	<b>14</b>

Year Two					
Fall Semester			Spring Semester		
Course #	Course Title	Credit Hours	Course #	Course Title	Credit Hours
APPM 2340 or 2350	Calculus 3 for Stats/Data Science or Calculus 3 for Engineers	4	APPM 3310	Matrix Methods and Applications	3
STAT 3100	Applied Probability	3	STAT 3400	Applied Regression	3
	Gen. Ed. Distribution course (example: Arts & Humanities)	3		Outside Area of Emphasis course	3
	Gen. Ed. Distribution/Diversity course (example: Social Sciences/Global Perspective)	3		Gen. Ed. Distribution course (example: Social Sciences)	3
	Outside Area of Emphasis course	3		Elective	3
	<b>Credit Hours</b>	<b>16</b>		<b>Credit Hours</b>	<b>15</b>

Year Three					
Fall Semester			Spring Semester		
Course #	Course Title	Credit Hours	Course #	Course Title	Credit Hours
STAT 4520		3	STAT 4440	Advanced Statistical Modeling	3
STAT 4610		3		Upper Division STAT elective	3
	Outside Area of Emphasis course	3		Outside Area of Emphasis course	3
	Gen. Ed. Skills course (example: Upper-division Written Communication)	3		Gen. Ed. Distribution course (example: Arts & Humanities)	3
	Gen. Ed. Distribution course (example: Arts & Humanities)	3		Gen. Ed. Distribution course (example: Social Sciences)	3
	<b>Credit Hours</b>	<b>15</b>		<b>Credit Hours</b>	<b>15</b>

Year Four					
Fall Semester			Spring Semester		
Course #	Course Title	Credit Hours	Course #	Course Title	Credit Hours
STAT 4680	Statistical Collaboration	3	APPM 4560	Markov Processes, Queues, and Monte Carlo Simulations	3
	Upper Division STAT elective	3		Upper Division STAT elective	3
	Gen. Ed. Distribution course (example: Social Sciences)	3		Upper Division STAT elective	3
	Outside Area of Emphasis course or elective	3		Outside Area of Emphasis course or elective	3
	Outside Area of Emphasis course or elective	3		Outside Area of Emphasis course or elective	3
	<b>Credit Hours</b>	<b>15</b>		<b>Credit Hours</b>	<b>15</b>