



**BACHELOR OF SCIENCE IN STATISTICS AND DATA SCIENCE**

**Catalog: 2022-2024**

**Suggested Arrangement of Courses**

<b>FIRST-YEAR FALL</b>	<b>16</b>	<b>FIRST-YEAR SPRING</b>	<b>16</b>
SDS 313 Introduction to Data Science	3	SDS 315 Statistical Thinking	3
M 408C Differential & Integral Calculus <sup>C,F</sup>	4	M 408D Seq, Series, & Multivar Calculus	4
or 408K Differential Calculus <sup>C,F</sup>		or M 408L Integral Calculus <sup>F</sup>	
or 408N Differential Calc for Science <sup>C,F</sup>		or M 408S Integral Calculus for Science <sup>F</sup>	
RHE 306 Rhetoric & Writing <sup>C</sup>	3	C S 303E Elements of Computers and Prog <sup>C</sup>	3
UGS 302/303 First-year Signature <sup>C,*</sup>	3	HIS Core Requirement <sup>C,*</sup>	3
Elective	3	Science & Tech I Core Requirement <sup>C</sup>	3
<b>SECOND-YEAR FALL</b>	<b>16</b>	<b>SECOND-YEAR SPRING</b>	<b>15</b>
SDS 431 Probability & Statistical Inference	4	SDS 334 Intermediate Statistical Models	3
M 340L Matrices & Matrix Calculations	3	Major Breadth Requirement (LD)	3
or 341 Linear Algebra and Matrix Theory		HIS Core Requirement <sup>C,*</sup>	3
Major Breadth Requirement (LD)	3	Science & Tech I Core Requirement <sup>C</sup>	3
GOV 310L American Government <sup>C,*</sup>	3	Elective	3
E 316L/M/N/P Literature <sup>C,*</sup>	3		
<b>THIRD-YEAR FALL</b>	<b>15</b>	<b>THIRD-YEAR SPRING</b>	<b>15</b>
SDS 336 Practical Machine Learning	3	SDS 354 Advanced Statistical Methods	3
C S 327E Elements of Databases	3	Major Breadth Requirement (UD)	3
Major Breadth Requirement (UD)	3	Visual & Performing Arts Core Requirement <sup>C</sup>	3
GOV 312L Issues & Policies in Amer Gov <sup>C,*</sup>	3	Elective	3
Elective	3	Elective	3
<b>FOURTH-YEAR FALL</b>	<b>15</b>	<b>FOURTH-YEAR SPRING</b>	<b>12</b>
SDS 357 Case Studies in Data Science <sup>F</sup>	3	Approved SDS Elective	3
Social & Behavioral Sciences <sup>C</sup>	3	Elective	3
Approved SDS Elective	3	Elective	3
Elective	3	Elective	3
Elective	3		

**SKILLS & EXPERIENCE FLAGS**

- Cultural Diversity in the U.S.
- Ethics
- Global Cultures
- Independent Inquiry (SDS 357)
- Quantitative Reasoning (M 408C/K/N/L/S)
- Writing – 2 courses (SDS 357)

**LEGEND**

- <sup>C</sup> Core curriculum requirement
- <sup>F</sup> Course carries skills and experience flag
- \* Course may carry skills and experience flag
- LD Lower-division
- UD Upper-division

*C S 313E Elements of Software Design must be taken prior to C S 327E Elements of Databases and may count as elective hours or breadth requirement if C S is selected as breadth field of study*