



BACHELOR OF SCIENCE IN STATISTICS AND DATA SCIENCE

Catalog: 2022-2024

Suggested Arrangement of Courses

FIRST-YEAR FALL 16

SDS 313 Introduction to Data Science	3
M 408C Differential & Integral Calculus ^{1 C,F}	4
RHE 306 Rhetoric & Writing ^C	3
UGS 302/303 First-year Signature ^{C,*}	3
Elective	3

SECOND-YEAR FALL 16

SDS 431 Probability & Statistical Inference	4
M 340L Matrices & Matrix Calculations or 341 Linear Algebra and Matrix Theory	3
Major Breadth Requirement (LD)	3
GOV 310L American Government ^{C,*}	3
E 316L/M/N/P Literature ^{C,*}	3

THIRD-YEAR FALL 15

SDS 336 Practical Machine Learning	3
C S 327E Elements of Databases ²	3
Major Breadth Requirement (UD)	3
GOV 312L Issues & Policies in Amer Gov ^{C,*}	3
Elective	3

FOURTH-YEAR FALL 15

SDS 357 Case Studies in Data Science ^F	3
Social & Behavioral Sciences ^C	3
Approved SDS Elective	3
Elective	3
Elective	3

FIRST-YEAR SPRING 16

SDS 315 Statistical Thinking	3
M 408D Seq, Series, & Multivar Calculus ¹	4
C S 303E Elements of Computers and Prog ^C	3
HIS Core Requirement ^{C,*}	3
Science & Tech I Core Requirement ^C	3

SECOND-YEAR SPRING 15

SDS 334 Intermediate Statistical Models	3
Major Breadth Requirement (LD)	3
HIS Core Requirement ^{C,*}	3
Science & Tech I Core Requirement ^C	3
Elective	3

THIRD-YEAR SPRING 15

SDS 354 Advanced Statistical Methods	3
Major Breadth Requirement (UD)	3
Visual & Performing Arts Core Requirement ^C	3
Elective	3
Elective	3

FOURTH-YEAR SPRING 12

Approved SDS 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

- ^C Core curriculum requirement
- ^F Course carries skills and experience flag
- * Course may carry skills and experience flag
- LD Lower-division
- UD Upper-division

¹ M408C and M 408D may be replaced by one of the following three-semester calculus sequences: (1) M 408K, 408L, and 408M; or (2) M 408N, 408S, and 408M. In these sequences, the third calculus course may count as elective hours or breadth requirement if Mathematics is selected as breadth field of study.

² 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 Computer Science is selected as breadth field of study.