Statistics and Data Science (BA): Sample Curriculum

First Year
- Intro to Stat. STAT 325 (3), Biometrics II STAT 341 (3)*
- Biometrics II STAT 341 (3)* or Business & Econ. Stats. STAT 350 (3)*
- Calculus I MATH 220 (4)
- Calculus II MATH 221 (4)
- Expository Writing I ENGL 100 (3)
- Expository Writing II ENGL 200 (3)
- Modern Language (5)
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Sophomore Year
- Intro. Probability and Statistics I STAT 510 (3)**
- Linear Algebra MATH 515 (3)
- Programming CIS 111 (3), CIS 209 (3) or CIS 200 (4)
- Literary/Rhetorical Arts (3)
- Modern Language (5)
- Modern Language (5)

Junior Year
- Intro. to Stat. Models STAT 713 (3)
- Regr. & Analyst. of Variance STAT 705 (3)
- Quantitative Elective***
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- ENGL 516 (3)
- Western Heritage (3)
- Philosophy (3) NOT 110, 320, 510
- Physical Sciences w/ Lab (4-5)
- Life Sciences w/ Lab, e.g. Prin. of Biology BIOL 198 (4)
- Elective (3) ****

Senior Year
- Survey Meth. STAT 710 (2) or Design for Prod./Process. STAT 722(3)
- Or Design of Experiments STAT 720 (3)
- Alternate term: 700-level STAT course (not STAT 701 or STAT 703)
- Intro. to the SAS Computing STAT 725 (1)
- Additional sciences (3-5)
- Advanced Social Science (3)
- Elective (3) ****

Notes:
The following also needs to be considered in the College-level general education requirements:
- The social science courses need to be from three different disciplines.
- One social science course must be 500+ or carry a prerequisite in the same department.
- The foreign language fulfills the International Overlay requirement.

*** The quantitative electives must bring the statistics core classes to 50 credits (the number of classes required to do this may vary). Courses must be at the 400-level or above and may include IMSE 541, IMSE 785, ECON 630, math, computer science, Statics (excluding 701 and 703) or a course in another area with substantial quantitative content.

**** The BA degree also requires 120 credits; 45 in upper-division courses. The number of free electives required to meet these criteria will vary by student.

Total Hours: 120+

15 credits 16 credits 15-16 credits 14 credits 16-17 credits 16 credits 12-14 credits 15-17 credits

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