Statistics and Data Science (BS): Sample Curriculum

**First Year**
- Intro to Stat. STAT 325 (3)
- Biometrics II STAT 341 (3)*
- or Business & Econ. Stats. I STAT 350 (3)*

- Calculus I MATH 220 (4)
- Calculus II MATH 221 (4)
- Fine Arts (2-3)
- Soc. Science(3)
- Public Speaking COMM 105 (2) or 106 (3)
- Expository Writing I ENGL 100 (3)
- Expository Writing II ENGL 200 (3)

**Sophomore Year**
- Intro. Probability and Statistics I STAT 510 (3)**
- or Appl. Mat. MATH 551(3)

- Calculus III Math 222 (4)
- Programming CIS 111 (3), CIS 209 (3) or CIS 200 (4)

- Elective (3) ****
- Elective (3) ****

**Junior Year**
- Intro. Probability and Statistics II STAT 511(3)**

- Lin. Alg. MATH 515 (3)
- Literary / Rhetorical Arts (3)
- Philosophy (3) NOT 110, 320, 510
- Additional sciences (3-5)

- Physical Sciences w/ Lab (4-5)
- Life Sciences w/ Lab, e.g. Prin. of Biology BIOL 198 (4)
- Elective (3) ****

**Senior Year**
- Regr. & Analy. of Variance STAT 705 (3)

- Quantitative Elective***
- Quantitative Elective***

- 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.
  - One of the general education courses needs to fulfill 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 and 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 (ask for approval).

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

**Total Hours: 120+**

14-16 credits 16 credits 16-17 credits 13-14 credits 15-17 credits 16 credits 13-16 credits 15 credits

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