

Statistics (BS), Data Science Track

Semester 1

- TRU 120: First Year Seminar (3 cr)
- MATH 198: Analytic Geometry and Calculus I (5 cr)
- STAT 190: Basic Statistics (3 cr)
- Elementary Foreign Language I (3 cr)

Semester 3

- DATA 222: Data Science (3 cr)
- MATH 285: Matrix Algebra (3 cr)
- COMM 170: Public Speaking (3 cr)
- CS 181: Foundations of Computer Science II (3 cr), **OR** CS/STEM Course (3-4 cr)
- Dialogues Curriculum course (3 cr)

Semester 5

- STAT 398: Intermediate Seminar in Statistics and Data Science (1 cr)
- STAT 370: Probability (3 cr)
- STAT 310: WE/Data Collection & Statistical Communication (3 cr)
- STAT Elective (3 cr)
- Dialogues Curriculum course (3-6 cr)

Semester 7

- STAT 497: WE/Senior Capstone Experience (2 cr)
- STAT 498: Senior Seminar in Statistics and Data Science (1 cr)
- STAT 478: Regression Analysis (3 cr)
- STAT Elective (3 cr)
- Free Electives as desired (6 or more) (6 cr)

Semester 2

- STAT 101: New Majors Seminar (1 cr)
- CS 170: Intro to Computer Science I (4 cr), **OR** CS 180: Foundations of Computer Science I (4 cr)
- MATH 263: Analytic Geometry and Calculus II (4 cr)
- ENG 190: Writing as Critical Thinking (3 cr)
- Elementary Foreign Language II (3 cr)

Semester 4

- STAT 250: Statistical Computing (3 cr)
- STAT 330: Introduction to Linear Models (3 cr)
- DATA 324: Data Visualization with Design (3 cr), **OR** DATA 520: Data Mining and Multivariate Statistics (3 cr)
- Dialogues Curriculum course: Lab Science (4 cr)
- Dialogues Curriculum course (3 cr)

Semester 6

- JINS 3XX: WE/_____ (3 cr)
- CS 430: Database Systems (3 cr)
- DATA 324: Data Visualization with Design (3 cr), **OR** DATA 520: Data Mining and Multivariate Statistics (3 cr)
- STAT/CS Elective (3 cr)
- Dialogues Curriculum course (3-6 cr)

Semester 8

- STAT 400+ Elective (3 cr)
- Dialogues Curriculum course (3-6 cr)
- Free Electives as desired (6 or more) (6-9 cr)

NOTES:

- WE = Writing Enhanced course
- If you have not completed the Civics Exam, we recommend doing so in your **first year**.
- Truman students are required to complete a [Portfolio](#) to graduate. We recommend starting to compile your work for the Portfolio sooner than later.
- Students must complete their Application to Graduate **the semester prior to graduating**. Apply to graduate through TruView.
- Graduating seniors need to complete their seniors test and questionnaire. We recommend reviewing the [Assessment & Testing page](#) to plan accordingly.
- **The Dialogues curriculum** requires a certain number of courses/credit hours in the following Perspectives: Social, Arts and Humanities, STEM, Communications, and Statistics. The exact number of courses a student will be required to take during their undergraduate career varies individually according to the credit transferred in.

Department Chair: Please contact the [Center for Academic Excellence](#) with any updates to the plan above. Rev. 8-7-24