Sample Four Year Plan

Computer Science (BS)

Semester 1
- TRU 120: First Year Seminar (3 cr)
- CS 100: Computer Science Seminar (1 cr)
- CS 180: Foundations of Computer Science I (4 cr)
- MATH 198: Analytic Geometry and Calculus I (5 cr)
- Elementary Foreign Language I (**) (3 cr)

(**) = Foreign Language: Can be taken any semester, but Elementary II proficiency is required for BS degree.

Semester 2
- CS 181: Foundations of Computer Science II (3 cr)
- CS 191: Computing Structures (3 cr)
- MATH 263: Analytic Geometry and Calculus II (4 cr), **OR** *Could consider CS 291: Models of Computation (3 cr), **OR** STAT 290: Statistics (3 cr)*
- Elementary Foreign Language II (**) (3 cr)
- Dialogues Curriculum course (3 cr)

(**) = Foreign Language: Can be taken any semester, but Elementary II proficiency is required for BS degree.

Semester 3
- CS 250: Systems Programming (3 cr)
- CS 260: Object-Oriented Programming and Design (3 cr)
- CS 291: Models of Computation *(or later)* (3 cr)
- Dialogues Curriculum course (3-6 cr)

Semester 4
- CS 310: Data Structures and Algorithms (3 cr)
- CS 330: Computer Architecture and Organization (3 cr)
- CS 291: Models of Computation (3 cr), **OR** STAT 290: Statistics (3 cr)
- Dialogues Curriculum course (3 cr)
- Required Support Course (3 cr)

Semester 5
- CS XXX: One elective from Area A, B, or C (***) (3 cr)
- JINS 3XX: WE/_____ (3 cr)
- BS Requirement (3 cr)
- Dialogues Curriculum course (3-6 cr)

Semester 6
- CS XXX: One elective from Area A, B, or C (***) (3 cr)
- CS 345: WE/Cyberethics (3 cr)
- STAT 290: Statistics (3 cr)
- Elective (3 cr)
- Dialogues Curriculum course (3 cr)

Semester 7
- CS 495: Senior Computer Science Seminar (1 cr)
- CS XXX: One or two electives from Area A, B, or C (***) (3 cr)
- Elective (3 cr)
- BS Requirement (3 cr)
- Dialogues Curriculum course (3-6 cr)

Semester 8
- CS XXX: One or two electives from Area A, B, or C (***) (3 cr)
- CS 495: Senior Computer Science Seminar *(if not taken semester 7)* (1 cr)
- Elective(s) (3-6 cr)
- Dialogues Curriculum course (3-6 cr)

Electives to total at least 120 hours

NOTES:

- (**) = Foreign Language: Can be taken any semester, but Elementary II proficiency is required for BS degree.
- (***) = We offer topics courses regularly in Areas A, B, and C (3 cr):
  - **Area A courses** include CS 315: Internet Programming, CS 370: WE/Software Engineering, and CS 430: Database Systems.
  - **Area B courses** include CS 390: Operating Systems, CS 420: Compilers, CS 435: Parallel and Distributed Processing, CS 455: Computer Security Fundamentals, and CS 470: Computer Networks.
  - **Area C courses** include CS 325: Introduction to Bioinformatics, CS 380: WE/Programming Languages, CS 420: Compilers, 430: Database Systems, CS 435: Parallel and Distributed Processing, CS 455: Computer Security Fundamentals, CS 460: Computer Graphics, CS 480: WE/Artificial Intelligence, and CS 490: Automata Theory and Formal Languages.

- 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. 7-30-24