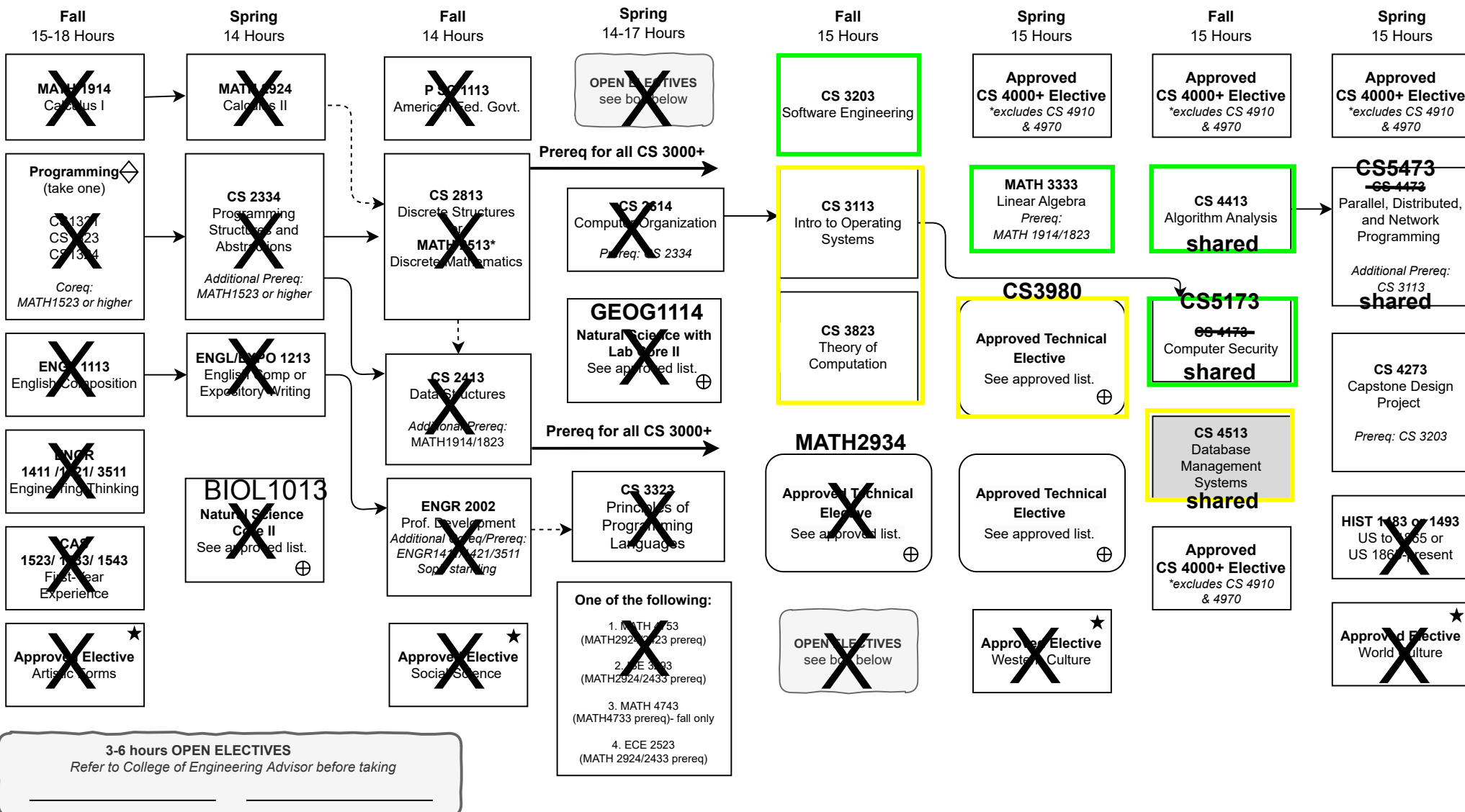Name: _____   Sooner ID: _____

Bachelor of Science in Computer Science (B235) **A235**
Summer 2023 through Spring 2024 – Total Credit Hours: 120
This flowchart is not an official check sheet of degree requirements. It is meant to be used as a supplemental visual guide to be used along with the official University of Oklahoma degree check sheet.

FRESHMAN

Fall
15-18 Hours

- ~~**MATH 1914** Calculus I~~
- **Programming** (take one) ◇
  CS 1323
  CS 2123
  CS 1314
  Coreq: MATH1523 or higher
- ~~**ENGL 1113** English Composition~~
- ~~**ENGR 1411 /1421/ 3511** Engineering Thinking~~
- ~~**CAS 1523/ 1533/ 1543** First-Year Experience~~
- ~~**Approved Elective** Artistic Forms~~ ★

Spring
14 Hours

- ~~**MATH 1924** Calculus II~~
- **CS 2334** Programming Structures and Abstractions
  Additional Prereq: MATH1523 or higher
- ~~**ENGL/EXPO 1213** English Comp or Expository Writing~~
- **BIOL1013** ~~Natural Science Core II~~ See approved list. ⊕

SOPHOMORE

Fall
14 Hours

- ~~**P SC 1113** American Fed. Govt.~~
- **CS 2813** Discrete Structures
  MATH 2513* ~~Discrete Mathematics~~
- **CS 2413** Data Structures
  Additional Prereq: MATH1914/1823
- **ENGR 2002** Prof. Development
  Additional Coreq/Prereq: ENGR1411/1421/3511 Soph standing
- ~~**Approved Elective** Social Science~~ ★

Prereq for all CS 3000+ →

Prereq for all CS 3000+ →

Spring
14-17 Hours

- ~~**OPEN ELECTIVES** see box below~~
- ~~**CS 2614** Computer Organization~~ *Prereq: CS 2334*
- **GEOG1114** ~~Natural Science with Lab Core II~~ See approved list. ⊕
- ~~**CS 3323** Principles of Programming Languages~~

One of the following:
1. ~~MATH 4753~~ (MATH2924/2423 prereq)
2. ~~ISE 3293~~ (MATH2924/2433 prereq)
3. MATH 4743 (MATH4733 prereq)- fall only
4. ECE 2523 (MATH 2924/2433 prereq)

JUNIOR

Fall
15 Hours

- **CS 3203** Software Engineering *(green box)*
- **CS 3113** Intro to Operating Systems *(yellow box)*
- **CS 3823** Theory of Computation *(yellow box)*
- **MATH2934** ~~Approved Technical Elective~~ See approved list. ⊕

Spring
15 Hours

- **Approved CS 4000+ Elective** *excludes CS 4910 & 4970*
- **MATH 3333** Linear Algebra *Prereq: MATH 1914/1823* *(green box)*
- **CS3980** Approved Technical Elective See approved list. ⊕ *(yellow box)*
- **Approved Technical Elective** See approved list. ⊕
- **Approved CS 4000+ Elective** *excludes CS 4910 & 4970*

SENIOR

Fall
15 Hours

- **Approved CS 4000+ Elective** *excludes CS 4910 & 4970*
- **CS 4413** Algorithm Analysis **shared** *(green box)*
- **CS5173** ~~CS 4173~~ Computer Security **shared** *(green box)*
- **CS 4513** Database Management Systems **shared** *(shaded yellow box)*

Spring
15 Hours

- **Approved CS 4000+ Elective** *excludes CS 4910 & 4970*
- **CS5473** ~~CS 4473~~ Parallel, Distributed, and Network Programming *Additional Prereq: CS 3113* **shared**
- **CS 4273** Capstone Design Project *Prereq: CS 3203*
- ~~**HIST 1483 or 1493** US to 1865 or US 1865-present~~
- ~~**Approved Elective** World Culture~~ ★

3-6 hours OPEN ELECTIVES
Refer to College of Engineering Advisor before taking

_____   _____

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not met

☐ ★ At least one of these Gen. Ed. courses must be 3000-4000 level. | ⊠ Foreign Language: 2 semesters college level or 2 years of high school. | ⊠ HS History Deficiency

◇ CS placement survey must be taken. Here is the survey link: https://www.ou.edu/coe/cs/resources. | ⊕ List of approved electives may be found here https://www.ou.edu/coe/cs/academics/undergrad

◄--► Co-requisite. | ◄—► Prerequisite | ▨ Shaded courses offered once a year (fall or spring only) | ✚ A minor in MATH can be completed using technical and open electives.