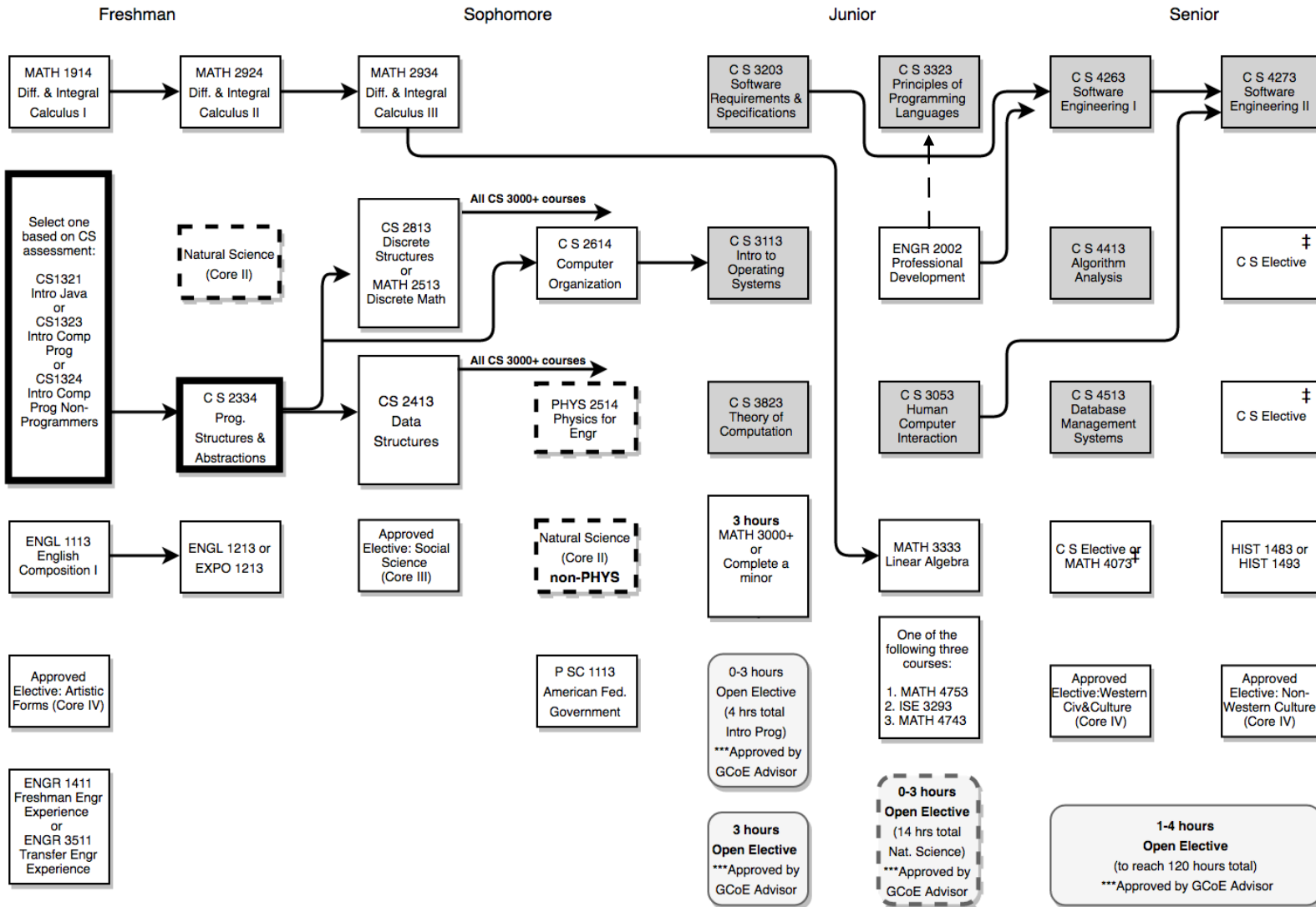Name: _____ Sooner ID: _____ Date: _____ C S Advisor: _____

Bachelor of Science in Computer Science (B235)
Summer 2017 through Spring 2018 (120 credit hours)

Additional Notes and Prerequisites:

1. Prerequisite for CS 1323/1321/1324 = MATH1523 or concurrent enrollment in MATH1523 or higher

2. Minimum B required in **ONE** of these courses to continue on with remaining CS courses.

3. Prerequisite for all **CS3000+** courses: CS 2813 and CS 2413

4. You can complete **MathMinor** in your CS degree by completing:
   A) MATH 2433 or 2934
   B) MATH 2443 or 2934
   C) MATH 3333
   D) Choose MATH4073
   E) Choose MATH4753 or MATH 4743

5. Prerequisite for:
   A) **MATH 4753** = MATH 2924
   B) **ISE 3293** = MATH 2924
   C) **MATH 4743** = MATH 4733 (FA)

6. Prerequisite for **MATH 4073**: MATH 3113 or 3413

7. Prerequisite for **MATH 2513**: MATH 2423/2924

9. Shaded CS courses offered ONCE a year (fall or spring only)

‡ To be chosen from CS 4000+ level (excluding CS4910 & 4970)

Core II Natural Sciences requirement:
A) Must include PHYS2514
B) 14 hours minimum
C) 2 courses from approved Natural Science list (one must be non-PHYS)
D) One must include a lab

***Open Electives** must be approved by Gallogly College of Engineering Advisor (4-13 hours)

Freshman

MATH 1914 Diff. & Integral Calculus I → **MATH 2924** Diff. & Integral Calculus II → **MATH 2934** Diff. & Integral Calculus III

Select one based on CS assessment:
CS1321 Intro Java or CS1323 Intro Comp Prog or CS1324 Intro Comp Prog Non-Programmers

C S 2334 Prog. Structures & Abstractions

ENGL 1113 English Composition I → **ENGL 1213 or EXPO 1213**

Approved Elective: Artistic Forms (Core IV)

ENGR 1411 Freshman Engr Experience or **ENGR 3511** Transfer Engr Experience

Sophomore

Natural Science (Core II)

CS 2813 Discrete Structures or **MATH 2513** Discrete Math → **C S 2614** Computer Organization

All CS 3000+ courses

CS 2413 Data Structures

All CS 3000+ courses

PHYS 2514 Physics for Engr

Approved Elective: Social Science (Core III)

Natural Science (Core II) **non-PHYS**

P SC 1113 American Fed. Government

Junior

C S 3203 Software Requirements & Specifications

C S 3113 Intro to Operating Systems

C S 3823 Theory of Computation

C S 3323 Principles of Programming Languages

ENGR 2002 Professional Development

C S 3053 Human Computer Interaction

3 hours MATH 3000+ or Complete a minor

MATH 3333 Linear Algebra

One of the following three courses:
1. MATH 4753
2. ISE 3293
3. MATH 4743

0-3 hours Open Elective (4 hrs total Intro Prog) ***Approved by GCoE Advisor

3 hours Open Elective ***Approved by GCoE Advisor

0-3 hours Open Elective (14 hrs total Nat. Science) ***Approved by GCoE Advisor

Senior

C S 4263 Software Engineering I → **C S 4273** Software Engineering II

C S 4413 Algorithm Analysis

C S 4513 Database Management Systems

C S Elective ‡

C S Elective ‡

C S Elective or MATH 4073†

HIST 1483 or HIST 1493

Approved Elective: Western Civ&Culture (Core IV)

Approved Elective: Non-Western Culture (Core IV)

1-4 hours Open Elective (to reach 120 hours total) ***Approved by GCoE Advisor

☐ Natural Science Lab   ☐ Foreign Language requirement met   ☐ 3000-4000 level Gen. Ed. met http://classnav.ou.edu in GenEdType box

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 http://checksheets.ou.edu/engrindx.htm