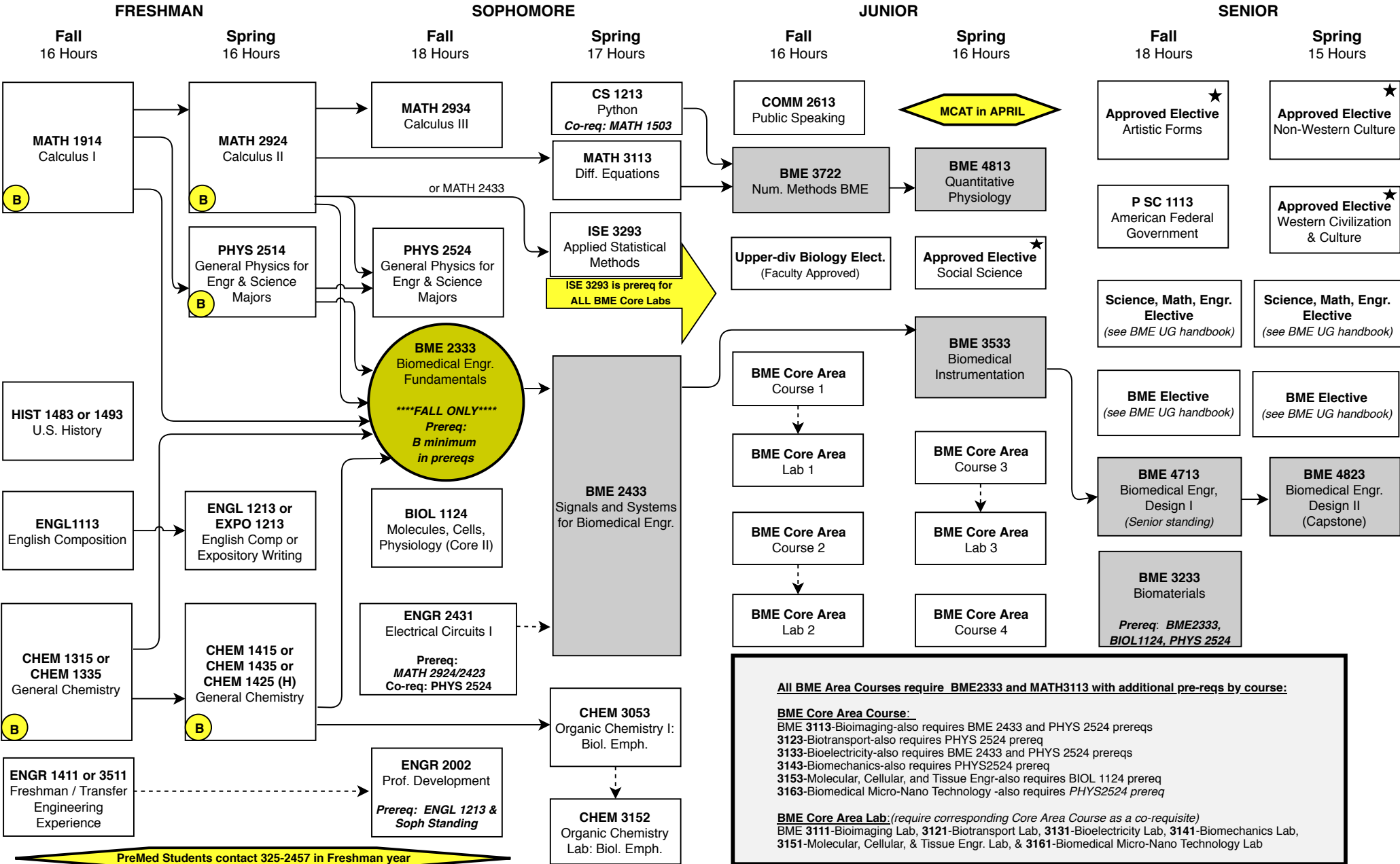Name: _____   Sooner ID: _____

Bachelor of Science in Biomedical Engineering (Standard Option-B108)
Summer 2019 through Spring 2020 – Total Credit Hours: 132
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 — 16 Hours
- MATH 1914 — Calculus I (B)
- HIST 1483 or 1493 — U.S. History
- ENGL1113 — English Composition
- CHEM 1315 or CHEM 1335 — General Chemistry (B)
- ENGR 1411 or 3511 — Freshman / Transfer Engineering Experience

Spring — 16 Hours
- MATH 2924 — Calculus II (B)
- PHYS 2514 — General Physics for Engr & Science Majors (B)
- ENGL 1213 or EXPO 1213 — English Comp or Expository Writing
- CHEM 1415 or CHEM 1435 or CHEM 1425 (H) — General Chemistry (B)

SOPHOMORE

Fall — 18 Hours
- MATH 2934 — Calculus III
- PHYS 2524 — General Physics for Engr & Science Majors
- BME 2333 — Biomedical Engr. Fundamentals — ****FALL ONLY**** Prereq: B minimum in prereqs
- BIOL 1124 — Molecules, Cells, Physiology (Core II)
- ENGR 2431 — Electrical Circuits I — Prereq: MATH 2924/2423 Co-req: PHYS 2524
- ENGR 2002 — Prof. Development — Prereq: ENGL 1213 & Soph Standing

Spring — 17 Hours
- CS 1213 — Python — Co-req: MATH 1503
- MATH 3113 — Diff. Equations — or MATH 2433
- ISE 3293 — Applied Statistical Methods — ISE 3293 is prereq for ALL BME Core Labs
- BME 2433 — Signals and Systems for Biomedical Engr.
- CHEM 3053 — Organic Chemistry I: Biol. Emph.
- CHEM 3152 — Organic Chemistry Lab: Biol. Emph.

JUNIOR

Fall — 16 Hours
- COMM 2613 — Public Speaking
- BME 3722 — Num. Methods BME
- Upper-div Biology Elect. (Faculty Approved)
- BME Core Area Course 1
- BME Core Area Lab 1
- BME Core Area Course 2
- BME Core Area Lab 2

Spring — 16 Hours
- ⬡ MCAT in APRIL
- BME 4813 — Quantitative Physiology
- Approved Elective — Social Science ★
- BME 3533 — Biomedical Instrumentation
- BME Core Area Course 3
- BME Core Area Lab 3
- BME Core Area Course 4

SENIOR

Fall — 18 Hours
- Approved Elective — Artistic Forms ★
- P SC 1113 — American Federal Government
- Science, Math, Engr. Elective (see BME UG handbook)
- BME Elective (see BME UG handbook)
- BME 4713 — Biomedical Engr, Design I (Senior standing)
- BME 3233 — Biomaterials — Prereq: BME2333, BIOL1124, PHYS 2524

Spring — 15 Hours
- Approved Elective — Non-Western Culture ★
- Approved Elective — Western Civilization & Culture ★
- Science, Math, Engr. Elective (see BME UG handbook)
- BME Elective (see BME UG handbook)
- BME 4823 — Biomedical Engr. Design II (Capstone)

PreMed Students contact 325-2457 in Freshman year

All BME Area Courses require BME2333 and MATH3113 with additional pre-reqs by course:

BME Core Area Course:
BME **3113**-Bioimaging-also requires BME 2433 and PHYS 2524 prereqs
3123-Biotransport-also requires PHYS 2524 prereq
3133-Bioelectricity-also requires BME 2433 and PHYS 2524 prereqs
3143-Biomechanics-also requires PHYS2524 prereq
3153-Molecular, Cellular, and Tissue Engr-also requires BIOL 1124 prereq
3163-Biomedical Micro-Nano Technology -also requires *PHYS2524 prereq*

BME Core Area Lab: *(require corresponding Core Area Course as a co-requisite)*
BME **3111**-Bioimaging Lab, **3121**-Biotransport Lab, **3131**-Bioelectricity Lab, **3141**-Biomechanics Lab, **3151**-Molecular, Cellular, & Tissue Engr. Lab, & **3161**-Biomedical Micro-Nano Technology Lab

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Key and Important Notes

- ☐★ One of these Gen. Ed. courses must be 3000-4000 level.   ☐ HS History Deficiency
- ▨ Offered once per year.
- ☐ Foreign Language: 2 semesters college level or 2 years of high school.
- ◄---► Co-requisite   ◄——► Prerequisite

Core Area Courses, Labs, and BME Electives in box above. Core Area Labs require corresponding Core Area Course as a co-requisite. Please use this flowchart as a supplemental visual guide to use in conjunction with the official OU degree check sheet.