Bachelor of Science in Biomedical Engineering (Standard Option-B108)
Summer 2016-Spring 2017-Total Credit Hours: 132

**FRESHMAN**
- **Fall** (16 hours)
  - MATH 1914: Diff & Integral Calculus I
  - ENGR 1411: Freshman Engineering Experience
  - CHEM 1315: General Chemistry (Core II)
  - HIST 1483 US: Hist 1492-1865 or HIST 1493 US: Hist 1865-Pres (Core IV)
  - ENGL 1113: Prin. Of English Composition (Core I)

- **Spring** (16 hours)
  - MATH 2924: Diff & Integral Calculus II
  - PHYS 2514: Gen. Physics for Engr & Science (Core II)
  - CHEM 1415: General Chemistry (Core II)
  - ENGL 1213: English Comp or EXPO 1213: Expo Writing (Core I)
  - Foreign Language met or Upper-division met

**SOPHOMORE**
- **Fall** (18 hours)
  - MATH 2934: Diff & Integral Calculus III
  - PHYS 2524: Gen. Physics for Engr & Science
  - BME 2333: Biomedical Engineering Fundamentals
  - CS 1313: Programming for Non-Majors
  - BIOL 1114: Intro. Zoology (Core II)
  - BIOL 1121: Intro. Zoology Lab

- **Spring** (17 hours)
  - MATH 3113: Intro to Ord Diff Equations
  - ISE 3293: Applied Statistical Methods
  - CHEM 3053: Organic Chem I (may be concurrent)
  - CHEM 3152: Org. Chem Lab
  - BIOL 2433: Circuits and Systems for Biomedical Engr

**JUNIOR**
- **Fall** (16 hours)
  - BME 3722: Numerical Methods in Biomedical Engr
  - CHEM 3653: Introduction to Biochemistry
  - BME Core Area Course 1
  - CS 1313: Programming for Non-Majors
  - BIOL 2433: Circuits and Systems for Biomedical Engr

- **Spring** (16 hours)
  - BME 3823: Quantitative Physiology
  - CHEM 3533: Biomedical Instrumentation
  - BME Core Area Course 2
  - CHEM 3653: Introduction to Biochemistry
  - BME Core Area Course 3

**SENIOR**
- **Fall** (18 hours)
  - PSC 1113: Am. Fed. Govt (Core III)
  - CHEM 3533: Biomedical Instrumentation
  - BME Core Area Course 4

- **Spring** (15 hours)
  - BME 4713: Biomedical Engr Design I (Senior Standing)
  - BME Elective
  - Science, Math, Engr Elective (Faculty Advisor approval)

1. **Offered Fall & Spring** BME3113: Bioimaging, 3123: Biotransport; 3133: Bioelectricity; 3143: Biomechanics; 3153: Molecular, Cellular, and Tissue Engineering; & 3163: Biomedical Micro-Nano-Technology
2. **Offered Fall & Spring** BME3111: Bioimaging Lab; 3121: Biotransport Lab; 3131: Bioelectricity Lab; 3141: Biomechanics Lab; 3151: Molecular, Cellular, and Tissue Engineering Lab; 3161: Biomedical Micro-Nano-Technology Lab
3. Choose from approved General Education list. At least one of the four categories must be upper division (3000-4000 level).
4. BME5213: Biomechanics; 5223: Biomechanics II; 5233: Biomaterials; 5243: Biochemical Engineering; 5253: Implantable Devices; 5293: Transport Biological Systems; 5373: Tissue Engineering; 5393: Intro CAD Tissue Engineering; 5693: Cellular Aspects of Tissue Regeneration; 5970: Topics in Bioengineering; ECE4843/5843: Medical Imaging Systems; ECE4863/5863: Bioinstrumentation

Note: Refer to check sheet for Core Area Course and Lab prerequisites. Shaded courses only offered once a year. Minimum "C" required for each course in the curriculum.
PREMED students contact 405.325.2457 in Freshman year. In addition to courses above, complete: CHEM3153, PHYS1311 & 1321, PSY & SOC, Cell or Molecular Biology, & Genetics (Recommend BIO3103). MCAT in April of Jr. year This flowchart is not an official document. Please use as a supplemental visual guide to use in conjunction with the official University of Oklahoma degree check sheet [http://checksheets.ou.edu/engrindx.htm](http://checksheets.ou.edu/engrindx.htm)