Bachelor of Science in Mechanical Engineering (Premedical Option B676)
Summer 2020 through Spring 2021 – 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
  - PHYS 2514 Physics I
  - CHEM 1315 Chemistry I
  - ENGL 1113 English Composition
  - ENGR 1411/3511 Freshman / Transfer Engr Experience

- **Spring**: 16 Hours
  - MATH 2924 Calculus II
  - PHYS 2524 Physics II
  - CHEM 1415 Chemistry II
  - ENGL 1213 or EXPO 1213 English Comp or Expository Writing

**SOPHOMORE**
- **Fall**: 19 Hours
  - MATH 2934 Calculus III
  - AME 2002 Engineering Computing
  - AME 2113 Statics
  - CHEM 3053 Organic Chemistry

- **Spring**: 17 Hours
  - MATH 3113G Intro. Diff. Equations
  - ENGR 2431 Electrical Circuits
  - ENGR 2531 Electrical Circuits II
  - CHEM 3152 Organic Chemistry Lab

**JUNIOR**
- **Fall**: 18 Hours
  - AME 2533 Dynamics
  - CHEM 3153 Organic Chemistry
  - ENGR 2002 Prof. Development
  - BIOL 1124 Intro Biol: Molecule/Cell/Phys

- **Spring**: 17 Hours
  - AME 3103 Interactive Engineering Design Simulation
  - AME 3137 Heat Transfer
  - AME 3143* Fluid Mechanics
  - ENGL 3153 Technical Writing

**SENIOR**
- **Fall**: 15 Hours
  - AME 3353 Design of Mechanical Components
  - AME 3443 Electromech Systems
  - CHEM 3153 Organic Chemistry
  - BIOL 3113 Intro Biol: Molecule/Cell/Phys

- **Spring**: 15 Hours
  - AME 4163 Principles of Engineering Design
  - AME 4553 Design Practicum (Capstone)

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In order to progress into 2nd year SOPHOMORE courses in AME, students must successfully complete (C minimum) MATH 1914, MATH 2924, PHYS 2514, & CHEM 1315 with a 3.0 Combined Ret GPA & possess a minimum 3.0 Combined Ret GPA in 24 or more credit hours.

- 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

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**Prerequisites and Co-requisites**
- **AME Electives and Flowcharts can be found here**: www.ou.edu/content/coe/academics_flowcharts.html

*The following prerequisites will be reflected on the AY 2019-2020 checksheet: For AME3143-AME2533 & 2303; For AME3153-AME2533

Per AME: Courses taken during Winter and Spring Intersessions will not qualify for AME course credit

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Approved Elective
- Non-Western Culture
- Artistic Forms
- Social Science
- Western Civ & Culture
- Engr Science Elective (3 hours)

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Additional Prereq: AME 2533

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Additional Prereqs: AME 2412 or CS1313

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Additional Prereq: AME 2213

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Additional Prereq: AME 2113 & 2213

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Additional Prereq: ENGL 1213 & Junior standing fyc@ou.edu for permission

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Additional Prereq: MATH 2924/2423

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Additional Prereq: MATH 1914, MATH 2924, PHYS 2514, & CHEM 1415 or 1425 or 1435 taken at a minimum 3.0 Combined Ret GPA in 24 or more credit hours.