

KU - ChE Emphasis Courses

All options require at least 12 hours of engineering electives. Petroleum requires 13 hours of engineering elective. 1 hour of C&PE 327 is used as advanced science.

Biomedical

Biol 150 Principles of Molecular and Cellular Biology

C&PE 656 Intro to Biomedical Engineering

Choose 1 of the following:

Biol 600 Intro to Biochemistry

Biol 646 Mammalian Physiology

Environmental

CE 477 Introduction to Environmental Engineering and Sciences

CE 5XX/7XX Upper level Environmental Engineering Course

CE 5XX/7XX Upper level Environmental Engineering Course

CE 5XX/7XX Upper level Environmental Engineering Course

Petroleum

Geol 101 Introduction to Geology

Geol 103 Introduction to Geology Lab

C&PE 327 Reservoir Engineering I

C&PE 527 Reservoir Engineering II

C&PE XXX Petroleum Engineering Elective

Premedical

Biol 150 Molecular/Cellular Biology

Biol 152 Organismal Biology

Chem 335 Organic Chemistry II

Biol 600 Introduction to Biochemistry

Courses that may be required for admission to medical school or covered on MCAT but not required for graduation with the premedical option:

Psyc 104 Psychology

Soc 104 Sociology

Biol 646/647 Mammalian Physiology and Lab

Biol 350 Principles of Genetics

Biol 416 Cell Structure and Function

* Materials Science on other side

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Materials Science

Choose 4 of the following:

- ARCE 350 Building Materials Science
- AE 507 Aerospace Structures
- AE 510 Aerospace Materials and Processes
- CE 310 Strength of Materials
- CE 412 Structural Engineering Materials
- CE 461 Structural Analysis
- C&PE 655 Introduction to Semiconductor Processing
- C&PE 657 Polymer Science and Technology
- C&PE 752 Tissue Engineering
- C&PE 765 Corrosion Engineering
- ME 306 Science of Materials
- ME 311 Mechanics of Materials
- ME 767 Molecular Biomimetics

- CHEM 680, C&PE 715,
- BIOL 420, PHSX 600, Introduction to nanotechnology
- EPHX 600
- C&PE 651/661 Undergraduate Research (By petition)

It is also recommended that students choose 1 of the following to satisfy the Advanced Science Elective

- Phsx 313 Introduction to Modern Physics
- Biol 150 Principles of Molecular & Cellular Biology
- Chem 620/621 Analytical Chemistry & Lab
- Chem 635/636 Instrumental Methods of Analysis
- Chem 660 Systematic Inorganic Chemistry