Environmental Engineering

YEAR 1

FALL
- MATH 220 (4) Analytic Geometry and Calculus I
  KSC-3
- ENGL 100 Expository Writing I
  KSC-1
- CHM 210 (4) Chemistry I
  
SPRING
- MATH 221 (4) Analytic Geometry and Calculus II
  KSC-4
- BIOL 198 (4) Principles of Biology
  
YEAR 2

FALL
- MATH 222 (4) Analytic Geometry and Calculus III
  PR: MATH 222 ≥ C
- PHYS 213 (5) Engineering Physics I
  KSC-5
- CHM 230 (4) Chemistry II
  PR: CHM 210
- DEN 160 (1) College of Engineering Orientation

SPRING
- MATH 340 (4) Elementary Differential Equations
  PR: MATH 221 ≥ C
- PHYS 214 (5) Engineering Physics II
  PR: PHYS 213, MATH 221
- COMM 106 (3) Public Speaking
  KSC-2
- BAE 460 (3) Computational and Statistical Tools for Engineers
  PR: CHM 230

YEAR 3

FALL
- CE 563 (3) Environmental Engineering Fundamentals
  PR: CHM 210 ≥ C, MATH 221 ≥ C
- PHYS 213 (5) Engineering Physics II
  PR: PHYS 213
- ME 310 (2) Elements of Thermodynamics
  PR: MATH 222, PHYS 213
- BAE 345 (4) Properties of Biological Materials Laboratory
  PR: CHM 210 or CHM 220

SPRING
- ENVE 331 (1) Professional Practice for Environmental Engineering Design
  PR: ENVE 331
- ME 571 (3) Fluid Mechanics
  PR: ME 512 or GE 530
- BAE 645 (3) Bioenvironmental Reaction Engineering
  PR: BAE 345 or CHE 354 or CHE 354, 355
- CHM 350 (3) General Organic Chemistry
  PR: CHM 220

YEAR 4

FALL
- ENVE 536 (3) Environmental Engineering Senior Design
  PR: ENVE 331
- PHYS 213 (5) Engineering Physics I
  PR: PHYS 213
- BAE 345 (2) Properties of Biological Materials Laboratory
  PR: ENGL 100
- BAE 660 (3) Hydraulic Transport in Biological Systems
  PR: ME 571 or CHE 530

SPRING
- ECE 519 (3) Electric Circuits for Engineers
  PR: PHYS 214
- BAE 643 (3) Life Cycle Assessment
  PR: MATH 220, CHM 230
- IMSE 530 (2) Engineering Economic Analysis
  PR: MATH 220
- BAE 463 (3) Computational and Statistical Tools for Engineers
  
(16 credit hours) (15 credit hours) (15 credit hours) (17 credit hours)

KEY
- = Prerequisite for another course
- PR = Prerequisite requirement
- PR/CO = Prerequisite or concurrent requirement
- * = K-State Core (KSC) course
- ▲ = See department approved electives
- ▲ = Only offered in the semester shown

Flowchart is for advising purposes only. Students are responsible for complying with University Catalog requirements.
Environmental Engineering Curriculum Notes

Substitutions
CHE 320 can be substituted for BAE 445.
CHE 530 can be substituted for ME 571.
GEOG 508 can be substituted for CE 202.
CHE 550 can be substituted for BAE 645.
CE 550 can be substituted for BAE 560.
CE 552 can be substituted for BAE 660.

Electives
Earth Science, ENVE, Graphics and Track electives must be selected from the official ENVE list.

K-State Core
The K-State Core (KSC) is the university’s version of the systemwide general education framework established by the Kansas Board of Regents.

KSC requirement 1 – English (6 hours)
KSC requirement 2 – Communications (3 hours)
KSC requirement 3 – Math and Statistics (3 hours)
KSC requirement 4 – Natural and Physical Sciences (4-5 hours)
KSC requirement 5* – Social and Behavioral Sciences (6 hours)
KSC requirement 6* – Arts and Humanities (6 hours)
KSC requirement 7 – Institutional Electives (6 hours)

To view course lists for each requirement, visit k-state.edu/provost/kstate-core.

*Requires two courses from two different subject areas.