

Environmental Engineering

126 credit hours total

YEAR 1		YEAR 2		YEAR 3		YEAR 4	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
*MATH 220 (4) Analytic Geometry and Calculus I KSC-3	*MATH 221 (4) Analytic Geometry and Calculus II PR: MATH 220 ≥ C	MATH 222 (4) Analytic Geometry and Calculus III PR: MATH 221 ≥ C	MATH 340 (4) Elementary Differential Equations PR: MATH 221 ≥ C	CE 563 (3) Environmental Engineering Fundamentals PR: CHM 210 ≥ C, MATH 221 ≥ C	ENVE 331 (1) Professional Practice for Environmental Engineering Design	ENVE 536 (3) Environmental Engineering Senior Design PR: ENVE331	ECE 519 (3) Electric Circuits for Engineers PR: PHYS 214
*ENGL 100 Expository Writing I KSC-1	BIOL 198 (4) Principles of Biology	*PHYS 213 (5) Engineering Physics I KSC-4 PR/CO: MATH 220	PHYS 214 (5) Engineering Physics II PR: PHYS 213 PR/CO: MATH 221	BAE 445 (3) Biological Engineering Fundamentals PR: BIOL 198 PR: BAE 345 or CE 533 or CHE 354, 355	BAE 645 (3) Bioenvironmental Reaction Engineering PR: BAE 345 or CHE 354 and CHE 355 and BAE 445	BAE 660 (3) Hydraulic Transport in Biological Systems PR: ME 571 or CHE 530	▲ Elective (3) ENVE
CHM 210 (4) Chemistry I	CHM 230 (4) Chemistry II PR: CHM 210	CHM 350 (3) General Organic Chemistry PR: CHM 230	CE 530 (3) Statics and Dynamics PR: MATH 222, PHYS 213	ME 571 (3) Fluid Mechanics PR: ME 512 or CE 530 PR/CO: ME 513	BAE 560 (3) Hydrology for Biological Systems PR/CO: ME 571, STAT 510 or BAE 460	▲ IMSE 530 (2) Engineering Economic Analysis PR: MATH 220	▲ Elective (3) Technical
DEN 160 (1) College of Engineering Orientation	*COMM 106 (3) Public Speaking KSC-2	BAE 460 (3) Computational and Statistical Tools for Engineers PR: MATH 221, SO standing	ME 310 (2) Elements of Thermodynamics PR: PHYS 213, MATH 221	▲ Elective (3) Graphics	BAE 643 (3) Life Cycle Assessment PR: MATH 220, CHM 230	▲ Elective (3) ENVE	* Elective (3) Arts and Humanities KSC-6
DEN 161 (1) Engineering Problem Solving PR/CO: MATH 150			BAE 345 (2) Properties of Biological Materials Laboratory PR: CHM 210 or CHM 220	*ENGL 200 (3) Expository Writing II KSC-1 PR: ENGL 100	▲ Elective (3) Earth Science	* Elective (3) Arts and Humanities KSC-6	* Elective (3) Institutional KSC-7
* Elective (3) Social and Behavioral Sciences KSC-5			BAE 346 (1) Properties of Biological Materials Laboratory PR/CO: BAE 345		* Elective (3) Social and Behavioral Sciences KSC-5	* Elective (3) Institutional KSC-7	

(16 credit hours)

(15 credit hours)

(15 credit hours)

(17 credit hours)

(15 credit hours)

(16 credit hours)

(17 credit hours)

(15 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

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.*