Biological Systems Engineering (Machine Systems Option)

YEAR 1

FALL: MATH 220 (4) Analytic Geometry and Calculus I

SPRING: MATH 221 (4) Analytic Geometry and Calculus II

YEAR 2

FALL: MATH 222 (4) Analytic Geometry and Calculus III

SPRING: MATH 340 (4) Elementary Differential Equations

YEAR 3

FALL: ME 513 (3) Thermodynamics I

SPRING: BAE 331 (1) Professional Practice for Biological Systems Engineering Design

YEAR 4

FALL: BAE 536 (3) Biological Systems Engineering Senior Design I

SPRING: BAE 636 (1) Biological Systems Engineering Senior Design II

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

Degree map is for advising purposes only. Students are responsible for complying with University Catalog requirements.
Biological Systems Engineering Curriculum Notes

Students who satisfy all or part of K-State Core Institutional Electives (KSC-7) with courses that satisfy other degree requirements may use additional unrestricted electives to meet the degree requirement of 126 credit hours.

Track Electives
Track electives are to be chosen from an approved departmental list of courses. Three of the 6 credit hours must be engineering courses.

Additional information is available at bae.k-state.edu/academics/undergraduate/bse/bse-track-electives.pdf.

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.