Agricultural Technology Management (Biomanufacturing Technology Option)

120 credit hours total

YEAR 1

FALL
- CHM 210 (4) Chemistry I
- BIOL 198 (4) Principles of Biology
- ATM 160 (3) Engineered Systems and Technology in Agriculture
- DEN 160 (1) College of Engineering Orientation
- COMM 106 (3) Public Speaking
- Elective (3) Social and Behavioral Sciences

SPRING
- BIOL 198 (4) Principles of Biology
- MATH 205 (3) General Calculus and Linear Algebra
- MANGT 220 (3) Principles of Management
- ENGL 100 (3) Expository Writing I
- Elective (3) Arts and Humanities
- Elective (3) Institutional

YEAR 2

FALL
- MATH 205 (3) General Calculus and Linear Algebra
- STAT 325 (3) Introduction to Statistics
- PHYS 113 (4) General Physics I
- ENGL 200 (3) Expository Writing II
- Elective (3) Engineering Graphics
- Elective (3) Technical

SPRING
- STAT 325 (3) Introduction to Statistics
- PHYS 113 (4) General Physics I
- ACCT 231 (3) Accounting for Business Operation
- Elective (3) Accounting for Business Operation
- Elective (3) Social and Behavioral Sciences
- Elective (3) Institutional

YEAR 3

FALL
- CC 110 (2) Introduction to Computing
- CC 111 (1) Elements of Computer Programming
- BIOCH 265 (5) Introductory Organic Biochemistry
- ATM 245 (3) Introduction to Biomanufacturing Technology
- ATM 331 (1) Professional Practice for Agricultural Technology Managers
- Elective (3) Technical

SPRING
- CC 110 (2) Introduction to Computing
- CC 111 (1) Elements of Computer Programming
- BIOCH 265 (5) Introductory Organic Biochemistry
- ATM 245 (3) Introduction to Biomanufacturing Technology
- ATM 331 (1) Professional Practice for Agricultural Technology Managers
- Elective (3) Technical

YEAR 4

FALL
- ATM 450 (3) Sensors and Controls for Agricultural and Biological Systems
- ATM 511 (3) Agricultural Building Systems
- ATM 536 (3) ATM Capstone Project
- ATM 545 (3) Processing and Storage of Grains
- ATM/BAE Elective (3)
- Elective (2) Technical
- Elective (3) Business Management

SPRING
- ATM 450 (3) Sensors and Controls for Agricultural and Biological Systems
- ATM 511 (3) Agricultural Building Systems
- ATM 536 (3) ATM Capstone Project
- ATM 545 (3) Processing and Storage of Grains
- ATM/BAE Elective (3)
- Elective (2) Technical
- Elective (3) Business Management

(14 credit hours) (16 credit hours) (15 credit hours) (15 credit hours) (14 credit hours) (16 credit hours) (15 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

Flowchart is for advising purposes only. Students are responsible for complying with University Catalog requirements.
Agricultural Technology Management 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 120 credit hours.

Substitutions
AGEC 318 or MANGT 421 can substitute for MANGT 220.
CE 202 or GRSC 210 can substitute for BAE 250.
ECON 120 can substitute for ECON 110.

Technical Electives
ATM/BAE electives and technical electives must be selected from an approved departmental list and be used to complete one of the option areas listed below.

Agribusiness Management (43 credit hours total in option)
- 21 credit hours of required courses within option
- 15 credit hours of ATM/BAE electives
- 7 credit hours of technical electives

Biomanufacturing (43 credit hours total in option)
- 24 credit hours of required courses within option
- 9 credit hours of ATM/BAE electives
- 10 credit hours of technical electives

Precision Agriculture (43 credit hours total in option)
- 26 credit hours of required courses within option
- 12 credit hours of ATM/BAE electives
- 15 credit hours of technical electives

Production Agriculture (43 credit hours total in option)
- 19 credit hours of required courses within option
- 9 credit hours of ATM/BAE electives
- 15 credit hours of technical electives

Water Management (43 credit hours total in option)
- 17 credit hours of required courses within option
- 15 credit hours of ATM/BAE electives
- 11 credit hours of technical electives

Additional information is available at bae.k-state.edu/academics/undergraduate/atm/atm-elective-lists.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.