Agricultural Technology Management (Precision Agriculture Option)

120 credit hours total

YEAR 1

FALL

CHM 210 (4)
Chemistry I

ATM 160 (3)
Engineered Systems and Technology in Agriculture

DEN 160 (1)
College of Engineering Orientation

COMM 106 (3)
Public Speaking
KSC-2

Elective (3)
Social and Behavioral Sciences
KSC-5

(14 credit hours)

SPRING

BIOL 198 (4)
Principles of Biology

ECON 110 (3)
Principles of Macroeconomics

ENGL 100 (3)
Expository Writing I
KSC-1

Elective (3)
Arts and Humanities
KSC-6

Elective (3)
Institutional
KSC-7

(16 credit hours)

YEAR 2

FALL

MATH 205 (3)
General Calculus and Linear Algebra
KSC-3

MANGT 220 (3)
Principles of Management

ENGL 200 (3)
Expository Writing II
KSC-1
PR: ENGL 100

AGRON 202 (3)
Introduction to Precision Ag Software

Elective (3)
Arts and Humanities
KSC-6

(15 credit hours)

SPRING

GEOG 302 (3)
Cartography and Thematic Mapping
PR: STAT 325

PHYS 113 (4)
General Physics I
KSC-4

ACCTG 231 (3)
Introduction to Managerial Accounting

STAT 225 (3)
Introduction to Statistics

Elective (3)
Social and Behavioral Sciences
KSC-5

(16 credit hours)

YEAR 3

FALL

CC 110 (2)
Introduction to Computing

CC 111 (1)
Elements of Computer Programming
PR/CO: CC 110

BAE 350/351 (3)
Off Road Machinery Systems and Laboratory
PR: CHM 210

AGRON 205/206 (4)
Soils and Laboratory

Elective (2)
Technical

Elective (3)
Institutional
KSC-7

(15 credit hours)

SPRING

ATM 331 (1)
Professional Practice for Agricultural Technology Managers
PR: JR standing

ATM 450 (3)
Sensors and Controls for Agricultural and Biological Systems
PR: PHYS 113 or 115
PR: ATM 160 or MATH 100

ATM 558 (3)
Hydrology and Soil Management
PR: AGRON 205

GEOG 508 (4)
Geographic Information Systems I
PR: GEOG 302

Elective (3)
Businses Management

(14 credit hours)

YEAR 4

FALL

ATM 536 (3)
ATM Capstone Project
PR: ATM 331 and SR standing

ATM 653/654 (3)
Water Management and Irrigation Systems and Laboratory
PR: ATM 558

ATM 550 (3)
Precision Agriculture Technologies
PR: MATH 150, PHYS 113 or 115, STAT 325 or 340 or 350

Elective (3)
ATM/BAE

Elective (3)
Technical

(15 credit hours)

SPRING

AGRON 655 (3)
Site Specific Agriculture
PR: AGRON 202

Elective (3)
ATM/BAE

Elective (3)
ATM/BAE

Elective (3)
ATM/BAE

Elective (3)
Business Management

(15 credit hours)

KANSAS STATE UNIVERSITY | Carl R. Ice College of Engineering

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

Degree map 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/general-education** .

**Requires two courses from two different subject areas.*