Agricultural Technology Management (Water Management Option)  
120 credit hours total

| YEAR 1 | FALL | BIOL 198 (4) | Principles of Biology |
| YEAR 1 | SPRING | CHM 210 (4) | Chemistry I |
| YEAR 1 | FALL | =ATM 160 (3) | Engineered Systems and Technology in Agriculture |
| YEAR 1 | SPRING | ECON 110 (3) | Principles of Macroeconomics |
| YEAR 1 | FALL | =ENGL 100 (3) | Expository Writing I |
| YEAR 1 | SPRING | =ENGL 200 (3) | Expository Writing II |
| YEAR 1 | FALL | =STAT 325 (3) | Introduction to Statistics |
| YEAR 1 | SPRING | =MATH 205 (3) | General Calculus and Linear Algebra |
| YEAR 2 | FALL | =MANGT 220 (3) | Principles of Management |
| YEAR 2 | SPRING | =PHYS 113 (4) | General Physics I |
| YEAR 2 | FALL | =ACCTG 231 (3) | Introduction to Managerial Accounting |
| YEAR 2 | SPRING | GEOG 302 (3) | Cartography and Thematic Mapping |
| YEAR 3 | FALL | CC 110 (2) | Introduction to Computing |
| YEAR 3 | SPRING | =ATM 331 (1) | Professional Practice for Agricultural Technology Managers |
| YEAR 3 | FALL | =ATM 111 (1) | Elements of Computer Programming |
| YEAR 3 | SPRING | =ATM 450 (3) | Sensors and Controls for Agricultural and Biological Systems |
| YEAR 4 | FALL | =ATM 536 (3) | ATM Capstone Project |
| YEAR 4 | SPRING | =ATM 653/654 (3) | Water Management and Irrigation Systems and Laboratory |
| YEAR 4 | FALL | =Elective (3) | Technical |
| YEAR 4 | SPRING | =Elective (3) | Technical |
| YEAR 4 | FALL | =Elective (3) | Business Management |
| YEAR 4 | SPRING | =Elective (3) | Business Management |

Degree map is for advising purposes only. Students are responsible for complying with University Catalog requirements.

**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

Carl R. Ice  
College of Engineering
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.