TECHNOLOGY SYSTEMS MANAGEMENT TSM

Department of Biosystems and Agricultural Engineering
College of Agriculture and Natural Resources

121  Fundamentals of Electricity
Fall. 4(3-2) R: Open to students in the Electrical Technology Major. SA: AE 671

130  Energy Efficiency and Conservation in Agricultural Systems
Spring, Summer. 3(3-0)
Introduction and basic concepts of energy efficiency and conservation in agricultural and food production systems.

222  Fundamentals of Automation and Controls
Fall. 3(2-2) P: (TSM 121 or concurrently) or MTH 103 or approval of department SA: AE 083, TSM 223
On-off controllers for electric actuators. Installation according to code. Ladder-logic. Programmable logic controllers. Installation and programming. Interfacing to a computer.

251  Information Technology in Agricultural Systems
Fall. 3(2-2) RB: Basic computer science course
Applications and trends in information systems. Evaluation and use of computer systems, peripherals, networks, management decision support software, presentation systems, and communication systems.

331  Water Management in Agriculture and Food Systems
Spring. 3(3-0) Interdepartmental with Crop and Soil Sciences. Administered by Technology Systems Management. P: MTH 103 or MTH 124 or MTH 132 or LB 118 SA: TSM 431
Principles of water management, use efficiency and conservation in agricultural production, natural resources and food processing facilities. Best agricultural water management practices, water rights, irrigation scheduling, irrigation systems selection, evaluation and management and drainage principles. Large scale water use, management and conservation in food processing.

490  Independent Study
Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 5 credits in all enrollments for this course. R: Approval of department.
Supervised individual student research and study in technology systems management.

491  Special Topics
Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.
Special topics in technology systems management.

493  Professional Internship in Technology Systems Management
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits A student may earn a maximum of 6 credits in any or all of these courses: ABM 493, ANR 493, AEE 493, ANS 493, CSS 493, CSUS 493, EEP 493, FIM 493, FW 493, HRT 493, PDC 493, PKG 493, and PLP 493 R: Open to juniors or seniors in the College of Agriculture and Natural Resources. Approval of department; application required.
Supervised professional experiences in agencies and businesses related to a student's major field of study.