

College of Agriculture, Food & Natural Resources
Agricultural Systems Management

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Unit Leader – Jinglu Tan

ASM Program Chair – Leon Schumacher

Professors – Willard Downs

Associate Professors – D. Baker, S. Borgelt, C. Fulhage, D. Pfof, L. Schumacher, A. Thompson

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Professors Emeriti – D. Brooker, J. Carpenter, H. Currence, L. Day, J. Frisby, F. Harris, W. Hires, J. Hoehne, K. McFate, S. McKibben, N. Meador, D. Sievers

Degrees: *Bachelor of Science in Agricultural Systems Management*

Agricultural Systems Management integrates physical systems with agricultural science and management skills to provide graduates with abilities to function in sales, service, and maintenance management positions in agribusiness industries. The uniqueness of Agricultural Systems Management graduates lies in their knowledge of the principles of physical systems which are the backbone of modern agricultural and food industries.

Departmental Requirements

Agricultural Systems Management Courses: 31 hours

Required ASM Courses: 9 hours

ASM 1020: Introduction to ASM (3)

ASM 1040: Physical Principles for Agriculture Applications (3)

ASM 4970: Agricultural Systems Management (3)

At least four courses from the following list are required: 12 hours

ASM 2220: Agricultural/Industrial Structures (3)

ASM 2360: Mobile Hydraulics (3)

ASM 4020: Agricultural Accident Prevention (3)

ASM 4140: Electrical Wiring & Equipment (3)

ASM 4320: Agricultural Equipment & Machinery (3)

ASM 4420: Surface Water Management (3)

Select from the following to accumulate a minimum of 31 hours: 10 hours

ASM 2320: Internal Combustion Power (3)

ASM 2340: Pesticide Application Equipment (3)

ASM 3350: Problems in ASM (up to 6)

ASM 4220: Material Handling and Conditioning (3)

ASM 4360: Precision Agriculture (3)

ASM 4460: Irrigation and Drainage (3)

ASM 4940: Agricultural Mechanization Internship (up to 6)

Supporting Courses: 6 hours





PI Sci or Soil 2100: Introduction to Soils or
PI Sci 2110: Plant Growth and Culture or
An Sci 1065: Farm Animal Management
Ag 1111: Computing & Programming Concepts or
Equivalent

Business and Economics: 15 hours

Acct 2036: Accounting I *Required*
Mgmt 3000: Fundamentals of Management or
Ag Ec 2183: Ag Marketing System
Ag Ec 3282: Agribusiness Finance or
Finance 1000: Principles of Finance
Ag Ec 3256: Ag and Biotech Law or
Ag Ec 3257: Rural and Ag Law
Ag Ec 3260: General Farm Management

Elective Courses: to total 128 hours

In consultation with their advisor, students may select elective courses to bring their total credit hours to the 128 hour minimum. Typically electives are chosen to provide emphasis in one of the following areas:

-  Natural Resource and Environment
-  Materials Handling and Crop Processing
-  Power and Machinery Systems
-  Production Agriculture

John Deere Dealer Management Program

The ASM program has an educational affiliation with the John Deere Company. Students who participate in the John Deere Dealer Management program will take a comprehensive sequence of courses in Agricultural Systems Management and Agricultural Business Management. John Deere Company participates in curriculum development and student mentoring. Each student is expected to plan and complete an internship with a sponsoring dealer. Up to 5 hours of credit may be earned for this internship.

Minor in Agricultural Systems Management

15 hours of ASM coursework. Of the 15 hours, 9 hours must be 3000 level or above.