



ILLINOIS PROFESSIONAL SCIENCE MASTER'S Engineering Technology & Management for Agricultural Systems



Merging technology with management in a systematic approach to problem solving is the foundation of the engineering technology and management for agricultural systems (ETMAS) program. Graduates focus on the application of engineering principles, the study of technology and integration of business concepts in agricultural, environmental, and construction industries.

Combining knowledge of science, engineering concepts, project management, business, and technology, the ETMAS program provides excellent preparation for careers at the interface of technical, business, and leadership areas within agriculture, environmental stewardship, construction, technology, and management.

The Department of Agricultural and Biological Engineering (ABE) coordinates the Master of Science degree in ETMAS in cooperation with the College of Agricultural, Consumer and Environmental Sciences (ACES). The ABE department at Illinois has established itself as one of the leading departments of its kind in the nation. It is dedicated to integrating biology and engineering to enhance the quality of complex living systems.

The program can be completed in 18-months of full-time study on the Urbana-Champaign campus. Summer enrollment is required while completing the internship. A thesis is not required.

Career Opportunities

- Agricultural structures & controls specialist
- Field technician
- Business consultant
- Construction Manager
- Grain storage manager
- Technical consultant
- Engineering technician
- Farm manager
- Field sales engineer
- Project manager
- Operations manager
- Research and development specialist
- Safety manager



Program Advisor

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Coordinated by the University of Illinois
Department of Agricultural and Biological
Engineering in cooperation with the College of
ACES.

Apply Online

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UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN



ILLINOIS PROFESSIONAL SCIENCE MASTER'S Engineering Technology & Management for Agricultural Systems

Admission Requirements

- Bachelor's degree from a regionally accredited U.S. Institution or a comparable degree from a recognized institution abroad
- Grade point average of 3.0 or higher (4.0 scale) for the last 60 hours of undergraduate work and for any graduate work
- Test of English as a Foreign Language (TOEFL) for non-native speakers of English
- Three (3) letters of recommendation.



Sample Program of Study

Year 1: Fall

Science Curriculum

ABE 440	Applied Statistical Methods I
ETMA 435	Electrical Computer Control Systems
ETMA 501	Graduate Research I
ETMA 594	Graduate Seminar
ETMA 598	Foundations of ETMAS

Business Curriculum

Two 2-hour courses in:

- Business Fundamentals
- Project Management

PSM 501	Industry Seminar I
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This is a sample curriculum; your courses will depend upon your individual interests and career plans.

Year 1: Spring

Science Curriculum

AGED 545	Research Methods and Design
ETMA 464	Engine and Tractor Power
ETMA 502	Graduate Research II
ETMA 594	Graduate Seminar
ETMA 598	Special Topics

Business Curriculum

Two 2-hour courses in:

- Choice of 2 business courses

PSM 502	Industry Seminar II
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Summer Internship

PSM 555	PSM Internship
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Year 2: Fall

Science Curriculum

ACE 435	Global Agribusiness Management
ABE 459	Drainage and Water Management
ETMA 467	Precision Agriculture Technology
ETMA 594	Graduate Seminar
ETMA 598	Independent Study

Business Curriculum

One 2-hour course in Science & Regulatory Policy

PSM 503	Industry Seminar III
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See Course Overview
psm.illinois.edu/tsm/overview

Students have interned at:

- Abbott Nutrition
- ADM
- Caterpillar
- Infor
- John Deere
- Country Financial
- Purina
- and many others

Graduates have been hired by:

- Dwyer Instruments
- Elanco
- Granite Construction
- Klein Tools
- Medline
- United Health Group
- and more

December Graduation

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