



TECHNICAL SYSTEMS MANAGEMENT

The technical systems management's (TSM) master's degree program will prepare you for technical and leadership careers in agricultural and biological systems management. Students will be equipped with advanced knowledge, abilities, and skills to apply physical and natural sciences to solve some of the world's most pressing problems.

The University of Illinois Department of Agricultural and Biological Engineering (ABE) coordinates the master of science degree in TSM in cooperation with the Graduate College. 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.

Combining knowledge of science, systems management, and applications engineering, the TSM program provides excellent preparation for careers in the construction, production, process, and manufacturing of food, fiber, feed, and fuel. Students focus on the application of engineering principles, the study of technology used in agriculture, and the integration of business concepts in the food and agricultural industries.

The program can be completed in 16-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 and controls specialist
- Appraiser
- Technical consultant
- Engineering technician
- Farm manager
- Field sales engineer
- Research and development specialist

SPECIALIZATIONS

- Construction Management
- Environmental systems
- Mechanization, marketing and technology management systems
- Production systems
- Renewable energy systems

FACULTY COORDINATORS

Dr. Richard Cooke & Dr. Paul Davidson
Department of Agricultural and Biological
Engineering
rcooke@illinois.edu or pdavidso@illinois.edu
(217) 333-0944 or (217) 300-3755

Applications may be submitted online. For additional information, visit the University of Illinois PSM website at psm.illinois.edu or email PSMdegree@illinois.edu.

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,
- Graduate Record Examination (GRE),
- Test of English as a Foreign Language (TOEFL) for non-native speakers of English, and
- Three (3) letters of recommendation.

SAMPLE PROGRAM OF STUDY

Year 1: Fall

Science Curriculum

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

Business Curriculum

Two 2-hour courses in	
• Business Fundamentals, and	
• Management and Marketing	
PSM 501	Industry Seminar I

*This is a **sample curriculum**; your courses will depend upon your individual interests and career plans. For additional course offerings, visit:*

<http://psm.illinois.edu/technical-systems-management>

Year 1: Spring

Science Curriculum

AGED 545	Research Methods and Design
TSM 464	Engine and Tractor Power
TSM 502	Graduate Research II
TSM 594	Graduate Seminar
TSM 596	Independent Study

Business Curriculum

Two 2-hour courses in	
• Project Management, and	
• Finance	
PSM 502	Industry Seminar II

Students have interned at:

- ADM,
- U of I Bollero Research Group,
- Advanced Cooling Therapy,
- Caterpillar,
- Infor,
- Country Financial,
- Purina,
- and others.

Summer Internship

PSM 555	PSM Internship
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Graduates have been hired by:

- ADM Institute for the Prevention of Postharvest Loss,
- Infor,
- Dwyer Instruments,
- BioAnalytics,
- and others.

Year 2: Fall

Science Curriculum

ACE 435	Global Agribusiness Management
ABE 459	Drainage and Water Management
TSM 467	Precision Agriculture Technology
TSM 594	Graduate Seminar
TSM 596	Independent Study

Business Curriculum

One 2-hour course in Science and Regulatory Policy	
PSM 503	Industry Seminar III

December Graduation

