

ENGINEERING TECHNOLOGY AND MANAGEMENT FOR AGRICULTURAL SYSTEMS MINOR

for the Undergraduate Minor in Engineering Technology and Management for Agricultural Systems

The Engineering Technology & Management for Ag Systems minor gives students a background in applied engineering technology in the areas of agriculture, construction, energy, and the environment. Knowledge in these areas will help students gain practical skills and experience useful in their careers and everyday life.

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Code	Title	Hours
ETMA 100	Technical Systems in Agr	3
Fifteen Hours, at least six of which must be at the 400 level. No more than 4 hours of independent study will count toward the minor (ETMA 496). Selected from:		15
ETMA 232	Materials and Construction Sys	
ETMA 233	Metallurgy & Welding Processes	
ETMA 234	Wiring, Motors and Control Sys	
ETMA 262	Agricultural Machine Systems Management	
ETMA 352	Land and Water Mgt Systems	
ETMA 363	Fluid Power Systems	
ETMA 371	Residential Housing Design	
ETMA 372	Environ Control & HVAC Systems	
ETMA 381	Grain Drying & Storage Systems	
ETMA 435	Elec Computer Ctrl Sys	
ETMA 438	Renewable Energy Applications	
ETMA 464	Heavy Equipment Powertrains	
ETMA 465	Chemical Applications Systems	
ETMA 467	Precision Agric Technology	
ETMA 496	Independent Study	
Total Hours		18

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- Demonstrate professional and ethical values.
- Communicate effectively in written and oral forms.
- Engage in life-long learning skills.
- Develop leadership and interpersonal skills.
- Analyze and interpret data.
- Understand social and cultural contexts.
- Develop global perspective.
- Carry out independent research with expertise in research design, methods, and analysis.

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Agricultural & Biological Engineering

Agricultural & Biological Engineering Department website (<https://abe.illinois.edu/>)

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Urbana, IL 61801
(217) 333-3570
abe@illinois.edu

College of Agricultural, Consumer & Environmental Sciences

College of Agricultural, Consumer & Environmental Sciences website (<https://aces.illinois.edu/>)

The Grainger College of Engineering

The Grainger College of Engineering website (<https://grainger.illinois.edu/>)

ACES Office of Academic Programs

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Advising

ABE Advising website (<https://abe.illinois.edu/academics/advising/>)
(217) 333-3570
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Admissions

ACES Undergraduate Admissions (<https://aces.illinois.edu/admissions/>)
University of Illinois Undergrad Admissions (<https://www.admissions.illinois.edu/>)
(217) 333-3380
visitACES@illinois.edu

- Obtain subject matter expertise.
- Identify problems and develop problem-solving abilities / critical thinking.
- Function effectively on multidisciplinary teams.