

MS in Agricultural Engineering (Non-Thesis)

Curriculum Checklist

Please refer to the program of study website below as your reference for course selection.

<https://engineering.uga.edu/degree/ms-agricultural-engineering/>

Student Name: _____

Student ID (810/811): _____ First term of enrollment: _____

The MS in Agricultural Engineering under a non-thesis option requires a minimum of 33 credit hours in the Program of Study.

Subject/ Number	Hours	Title	Semester	Emphasis Course (Y/N)	Graduate only course (Y/N)	Course Sub. (Y/N)
Required Courses	ENGR 8950	1	Graduate Seminar*			Y
	GRSC 7001	1	GradFIRST Seminar (UGA required)			Y
Agricultural Area of Emphasis (at least 15 credit hours)						
Elective Graduate only (at least 12 credit hours)						
Research Courses	ENGR 7010	3	Project-Focused Master Research	List Semesters and Credit Hours:		
Total Credit Hours (by adding all taken courses above – at least 33 hours + GradFIRST)		<p style="text-align: center;">Credit Hours Requirement Guideline</p> <p>1. <u>A minimum of 30 semester hours of coursework</u>, which must include:</p> <ul style="list-style-type: none"> • at least 27 hours of graduate-level coursework, including <ul style="list-style-type: none"> ○ at least 15 hours selected from one of the Agricultural Engineering Emphasis course lists. ○ at least 12 hours from UGA courses open only to graduate students and exclusive of thesis (ENGR 7300, Master’s Thesis) and research (ENGR 7000, Master’s Research, and ENGR 7010, Project-Focused Masters Research) • 1 hour of ENGR 8950 Graduate Seminar (*Only up to 1 hours of ENGR 8950 may apply on the Program of Study if the student takes it more than once) <p>2. 3 hours of ENGR 7010 project-based research</p> <p>If you need course substitution, please complete and attach course substitution form. Course substitute form can be found at: https://engineering.uga.edu/students/graduate/ms-student-program-milestones/</p>				

Comments:

Major Professor (sign and date): _____ Date

ECAM (Mech, Ag) Graduate Coordinator (sign and date): _____ Date

UGA CENGR M.S. Agricultural Engineering

AGRICULTURAL ENGINEERING EMPAHSIS COURSE LIST

Food Systems Engineering

- BIOE 8490 Advanced Biomaterials
- BCHE 8150 Heterogeneous Reactor Design and Bio-Catalysis
- ENGR 6350 Introduction to Finite Element Analysis
- CVLE/MCHE 8160 Advanced Fluid Mechanics
- ELEE 6210 Linear Systems
- ELEE 6220 Feedback Control Systems
- ELEE 6230 Sensors & Transducers
- ELEE 6235 Industrial Control Systems
- ELEE 6250 Advanced Microcontrollers
- ELEE 6540 Applied Machine Vision
- ELEE 8240 Instrumentation Programming
- ENGR 6490 Renewable Energy Engineering
- CVLE(MCHE)(LAND) 6660 Sustainable Building Design
- ENGR 6910 Foundations for Engineering Research
- ENGR 8103 Computational Engineering
- ENGR 8180 Advanced Mass Transfer
- ENGR 8930 Optimization Theory & Engineering Applications
- FDST 6011 Food Processing I
- FDST 6012 Food Processing II
- FDST 6013 Food Processing III
- FORS 6530 Wood Properties & Utilization
- HORT/CRSS 6430 Plant Physiology
- MCHE 6650 HVAC Systems for Buildings and Industry
- MCHE 8170 Advanced Heat Transfer
- POUL/FDST 6860&L Poultry Processing
- STAT 6315 Statistical Methods for Researchers

Natural Resource Management

- CVLE 8110 Environmental River Mechanics
- CVLE 8130 Mechanics of Jets and Plumes
- CVLE 8140 Transport and Mixing in Natural Flows
- CVLE/MCHE 8160 Advanced Fluid Mechanics
- CVLE 8420 Geomechanics
- CVLE 8460 Soil Improvement
- CRSS 6600 Soil Physics
- ELEE 6230 Sensors & Transducers
- ELEE 8240 Instrumentation Programming
- ENGR/GEOG 6161&L Environmental Microclimatology
- CVLE(MCHE)(LAND) 6660 Sustainable Building Design
- ENGR 6490 Renewable Energy Engineering
- ENGR 6910 Foundations for Engineering Research
- ENGR 8103 Computational Engineering

- ENGR 8220 Microfluidic Transport Phenomena
- ENGR 8930 Optimization Theory & Engineering Applications
- ENVE 6410 Open Channel Hydraulics
- ENVE 6435 Natural Resources Engineering
- ENVE 6440 Computer Modeling in Water Resources
- ENVE 6460 Groundwater Hydrology for Engineers
- ENVE 6470 Environmental Engineering Unit Operations
- ENVE 6450 Engineering Hydrology and Hydraulics
- MCHE 6590 Fluid Mechanics II
- MCHE 6650 HVAC Systems for Buildings and Industry
- MCHE 8710 Engineering Properties of Animal and Plant Materials: Form & Function
- STAT 6315 Statistical Methods for Researchers
- WASR 6500 Quantitative Methods in Hydrology
- WASR 6700L Hydrology, Geology & Soils of Georgia