



MISSISSIPPI STATE UNIVERSITY™
**COLLEGE OF AGRICULTURE
 AND LIFE SCIENCES**

Department of Agricultural & Biological Engineering

Agricultural Engineering Technology & Business (124 Hours)

4 Concentrations Available

Freshman Year

Fall Semester (15 hours)			Spring Semester (16 hours)		
EN 1103	English Composition	3	EN 1113	English Composition II	3
MA 1323	Trigonometry	3	PSS 1313	or BIO 1023	3
_____	Humanities*	3	MA 1713	Calculus I	3
ABE 1073	Tech Design I	3	ABE 1083	Tech Design II Survey	3
ABE 1863	Eng Tech in Ag	3	CH 1043	of Chemistry I	3
			CH 1051	Experimental Chem	1

Sophomore Year

Fall Semester (15 hours)			Spring Semester (16 hours)		
AEC 2713	Intro Food & Res Econ	3	ACC 2013	Prin Financial Accounting	3
_____	Humanities*	3	BL 2413	Legal Envt Bus	3
PH 1113	Gen Physics I	3	PH 1123	Gen Physics II	3
ABE 2873	Land Surveying	3	MA 2113	Intro to Stats	3
CH 1053	Survey of Chemistry II	3	ADS 1113	or BIO 1134	3
			ADS 1121	Animal Sci Lab	1

Junior Year

Fall Semester (15 hours)			Spring Semester (16 hours)		
ACC 2023	Prin Managerial Acct	3	AELC 3203	Prof Writing ANR Human Sci	3
AEC 3133	Intro AgBus Mgt	3	CO 1003	Fund of Public Speaking	3
_____	Restricted Elective	3	_____	Restricted Elective	3
_____	CONCENTRATION	3	ABE 3513	GPS/GIS - Ag. & Eng	3
GR 4303	Principles of GPS	3	PSS 3303	Soils	3
			PSS 3301	Soils Lab	1

Senior Year

Fall Semester (16 hours)			Spring Semester (15 hours)		
MGT 3513	Intro Human Res Mgt	3	_____	Social Science	3
_____	CONCENTRATION	3	_____	CONCENTRATION	3
_____	CONCENTRATION	3	_____	CONCENTRATION	3
ABE 4383	Building Construction	3	_____	Fine Arts	3
ABE 4473	Elec. Applications	3	ABE 4263	Soil & Water Mgt	3
ABE 4961	Seminar	1			

Courses printed in italic are taught only in the Fall or Spring semester, as listed.

Students are required to earn a 'C' or better in all ABE core courses.

*Choose from General Education core

CONCENTRATION Courses: See Listings on Back

Natural Resource & Environmental Mgt (NREM)

Required Concentration Courses: 14 hours

ADS 1113/21 Animal Science and
 or BIO 1134 Laboratory Biology I
 PSS 1313 Plant Science
 or BIO 1023 Plants & Humans
 GR 2313 Maps & Remotes
 GR 4303 Principles of GIS
 PSS 3303/1 Soils and Laboratory

9 Hours Restricted Electives:

ABE 1083 Technology Design II
 ABE 4313 Bio Trtmnt of NPS Poll
 ABE 4803 Biosyst Simulation
 GG 3613 Water Resources
 GR 3113 Conserv Of Nat Res
 PSS 4333 Soil Conservation
 PSS 4373 Geospatial Agn Mgt

15 Hours NREM Electives:

ABE 4483 Intro to Remote Sensing
 ABE 4800 Undergraduate Research
 AEC 3233 Intro to Env Econ & Policy
 AEC 4233 Environmental Economics
 AEC 4243 Natural Resource Econ
 BIO 2503 Environmental Qual
 BL 4263 Environmental Law
 FO 4483 Forest Soils
 GG 3133 Intro Environ Geology
 GG 4613 Phys Hydrogeology
 GR 2313 Maps Remote
 GR 4313 Advanced GIS
 GR 4333 Remote Sensing Phys Env
 NREC 3213 Environmental Measurements
 NREC 4313 Spatial Tech Nat Res Mgt
 NREC 4353 Natural Resource Law
 NREC 4463 Forest Hydro & Water Mgt
 PSS 4383 Agriculture Remote Sensing I
 PSS 4393 Agriculture Remote Sensing II
 PSS 4483 Intro to Remote Sensing
 PSS 4733 Ag Flight Technologies I
 PSS 4743 Ag Flight Technologies II

Precision Agriculture (PRAG)

Required Concentration Courses: 14 hours

ADS 1113/21 Animal Science and Laboratory
 or BIO 1134 Biology I
 PSS 1313 Plant Science
 or BIO 1023 Plants & Humans
 GR 2313 Maps & Remotes
 GR 4303 Principles of GIS
 PSS 3303/1 Soils and Laboratory

9 Hours Restricted Electives:

ABE 1083 Technology Design II
 ABE 2173 Agri Off-Road Machines
 ABE 2543 Precision Agriculture I
 or PSS 2543 Precision Agriculture I
 ABE 4163 Machinery Mgt Agro-Ecosystems
 PSS 4373 Geospatial Agn Mgt

15 Hours PRAG Electives:

ABE 4800 Undergraduate Research
 AEC 4413 Public Problems of Ag
 FO 4453 Remote Sensing Appl
 GR 2313 Maps Remote
 GR 3303 Survey Geospatial Tech
 GR 4313 Advanced GIS
 GR 4323 Cartographic Sciences
 GR 4333 Remote Sensing Phys Env
 GR 4343 Adv Remote Sensing/Geosci
 NREC 4313 Spatial Tech Nat Res Mgt
 PSS 3133 Intro Weed Science
 PSS 4103 Forage Pasture
 PSS 4123 Grain Crops
 PSS 4133 Fiber&Oilseed Crops
 PSS 4383 Agriculture Remote Sensing I
 PSS 4393 Agriculture Remote Sensing II
 PSS 4483 Intro to Remote Sensing
 PSS 4733 Ag Flight Technologies I
 PSS 4743 Ag Flight Technologies II
 PSS 4813 Herbicide Technology

Enterprise Management (EMGT)

Required Concentration Courses: 14 hours

ADS 1113/21 Animal Science and
 or BIO 1134 Laboratory Biology I
 PSS 1313 Plant Science
 or BIO 1023 Plants & Humans
 GR 4303 Principles of GIS
 PSS 3303/1 Soils and Laboratory

9 Hours Restricted Electives:

ABE 1083 Technology Design II
 ABE 2173 Agri Off-Road Machines
 ABE 4163 Machinery Mgt Agro-Ecosystems
 AEC 3113 Intro To Quant Econ
 EC 2113 Prin Of Macroecon
 MGT 3323 Entrepreneurship

15 Hours EMGT Electives:

ABE 4483 Intro to Remote Sensing
 ABE 4800 Undergraduate Research
 ADS 4323 Beef Cattle Science
 AEC 2223 Sustainability Economics
 AEC 3233 Intro to Env Econ & Policy
 AEC 4113 Agribusiness Firm Mgt
 AEC 4213 Ag Finance I
 AEC 4343 Adv Farm Management
 AEC 4413 Public Problems of Ag
 AEC 4623 Gbl Mkg of Ag Prod
 BL 4243 Entrepreneur Law
 MGT 3113 Principles of Management
 MGT 3823 Responsible Leadership
 PO 4334 Broiler Production
 PSS 4103 Forage Pasture
 PSS 4123 Grain Crops
 PSS 4133 Fiber&Oilseed Crops

Surveying and Geomatics (SGEO)

Required Concentration Courses: 15 hours

MA 1313 College Algebra
 CE 2213 Surveying (F)
 CE 4233 Control Surveys (F)
 CE 4243 Land Surveys (S)
 GE 4303 Principles of GIS

9 Hours Restricted Electives:

ABE 1083 Technology Design II
 or EG 1143 Graphic Comm

18 Hours SGEO Electives:

ABE 4483 Intro to Remote Sensing
 ABE 4800 Undergraduate Research
 BL 4243 Entrepreneur Law
 BL 4333 Real Estate Law
 FO 4453 Remote Sensing Appl
 GR 2313 Maps Remote
 GR 3303 Survey Geospatial Tech
 GR 4313 Advanced GIS
 GR 4323 Cartographic Sciences
 GR 4333 Remote Sensing Phys Env
 GR 4363 GIS Programming
 MGT 3323 Entrepreneurship
 NREC 4463 Forest Hydro & Water Mgt
 PSS 4383 Agriculture Remote Sensing I
 PSS 4393 Agriculture Remote Sensing II
 PSS 4483 Intro to Remote Sensing
 PSS 4733 Ag Flight Technologies I
 PSS 4743 Ag Flight Technologies II
 REF 3333 Principles of Real Estate