Overview
The Agricultural Engineering Technology (AGET) program was developed for students seeking careers associated with the application of technologies in the field of food and fiber production. The program prepares students to be successful in careers associated with industry or government. The curriculum is also structured to prepare students for admission to graduate school in Agricultural Engineering Technology, Agricultural Operations Management, Agricultural Systems Management, or Agricultural Mechanics.

As agriculture is becoming more technical and sophisticated, it is essential that students receive a thorough educational background in relevant technologies and business practices. In the AGET program, engineering technology and business/agribusiness courses are taught in the Department of Agriculture, Geosciences, and Natural Resources.

Career Opportunities
The production of food and fiber, processing them, and transporting the final products to the world’s people is the largest enterprise on earth. Everyone everywhere depends on agriculture. Colleges of agriculture throughout the country recognize the necessity for trained individuals in the field of agricultural engineering technology. It is estimated that nearly 50,000 jobs related to agriculture become available each year and many of them are related to agricultural engineering technology.

Careers in AGET include: agricultural equipment manufacturers, agricultural/industrial equipment sales and service, fiber processing, food production/processing industries, geospatial technologies, financial services and technological fields in government-related careers.

Facilities
Modern agricultural laboratories, classrooms, and computer laboratories are located in Brehm Hall and the Ned R. McWherter Agricultural Complex. Students utilize the latest computer technologies, GPS/GIS hardware and software, surveying instruments, and other technology-related equipment. Field trips, guest speakers, and hands-on laboratory activities enhance classroom instruction.
B.S. in Agriculture – Agricultural Technology Concentration - Agricultural Engineering Technology Option (1124-GEN)
Course Requirements for 2019-2020 catalog

Fine Arts (3 hours) Select One
ART 110 Understanding Visual Arts ___/3
ARTH 210 The History of Art ___/3
ARTH 211 The History of Art ___/3
DANC 110 Understanding Dance ___/3
MUS 111 Masterpieces of Music ___/3
MUS 112 Music in Our Time ___/3
MUS 113 Western Masterpieces ___/3
MUS 114 Historical Survey of Jazz ___/3
MUS 115 Music for the Masses ___/3
THEA 110 Understanding Theatre ___/3
THEA 111 Understanding Theatre ___/3

Biological & Physical Systems (12 hours)
CHEM 111 Intro: General & Inorganic ___/4
or CHEM 121 General Chemistry ___/4
Select One Sequence:
PHYS 211 College Physics ___/4
& PHYS 212 College Physics ___/4
or
PHYS 220 University Physics ___/4
& PHYS 221 University Physics ___/4

Communication (9-10 hours)
ENGL 105 English Composition ___/3
or ENGL 111 English Composition ___/3
ENGL 112 English Composition ___/3
or ENGL 113 English for Technical Writers ___/3
COMM 230 Public Speaking ___/3
or COMM 229 Public Communication Online ___/3
or HONR 110 Public Speaking & Rhetorical Tradition ___/3

Humanities (9 hours) Select three:
ENGL 200- British Literature; ENGL 210- British Literature;
ENGL 260- American Literature; ENGL 261-American Literature;
ENGL 270-World Literature; ENGL 271-World Literature;
FREN 200-France Today; GERM 200-Germany Today;
HIST 121-World Civilization I; HIST 122-World Civilization II;
HIST 201-History of U.S. I; HIST 202-History of U.S II; HONR 101-
Great Works I, Ancient World and Classical Antiquity; HONR 102-
Late Antiquity to Middle Ages; HONR 201-Late Middle Ages to
Renaissance; JAPN 250-Japan Today; PHIL 110-Adventure of Ideas:
Historical; PHIL 120-Adventures of Ideas: Contemporary;
PHIL 130-Ethics & Race; PHIL 160-Exploring Ethics;
RLST 201-Intro Religious Studies; SPAN 250-Latin America Today

Mathematics (3 hours) Select one:
MATH 110 Essentials of Algebra ___/4
MATH 130 Nature of Mathematics ___/3
MATH 140 College Algebra & Elementary Function ___/3
MATH 160 Calculus for Business & Life Sciences ___/3
MATH 185 Precalculus ___/5
MATH 210 Elementary Statistics & Probability ___/3
MATH 251 Calculus I ___/4
HONR 120 Development of Mathematical Enquiry ___/3

Social & Behavioral Sciences (6 hours) Select two:
AGRI 295 International Food & Fiber Systems ___/3
ANSC 270 Animal Welfare & Ethics ___/3
ECON 201 Principles of Macroeconomics ___/3

ECON 202 Principles of Microeconomics ___/3
ENGR 100 Society & Technology ___/3
GEOG 151 Intro: Regional Geography ___/3
GEOG 152 Intro: Regional Geography ___/3
GEOG 202 Intro: Cultural Geography ___/3
HLTH 111 Principles & Concepts in Personal Health ___/3
HONR 202 Great Works IV-Enlightenment to Modernity ___/3
IDST 201 Intro: Women’s Studies ___/3
NRM 101 Wildlife, Conservation, & Environmental Issues ___/3
NRM 250 Global Perspectives in Natural Resource ___/3
NUTR 100 Introductory Nutrition ___/3
POSC 210 American Government & Politics ___/3
POSC 220 American Political Institutions & Policy ___/3
PSYC 101 Intro: Psychology ___/3
SWRK 220 Understanding Human Diversity ___/3
SOC 201 General Sociology ___/3
SOC 202 Social Problems ___/3

Ag Core (16 hours)
AGEC 110 Introduction to Agricultural Business ___/3
AGCS 110 Introduction to Agricultural Engineering ___/3
AGET 220 Surveying & Soil & Water Conservation ___/3
AGET 350 Agriculture Power & Machinery Management ___/3
AGET 382 Precision Agriculture Technologies ___/3
AGET 420 Irrigation ___/3
AGET 470 Applied Pneumatics & Hydraulics ___/3
AGET 480 Supervised Field Experience ___/3
or AGET 482 Principles of GIS & GPS ___/3
ENGR 101 Engineering Graphics ___/3
ENGR 325 Technical Communications ___/3
or ENGR 351 Business Communications ___/3
MATH 170 Trigonometry ___/3

Ag Electives (6 hours) – Select two:
AGET 354 Advanced Land Surveying & Geomatics ___/3
AGET 370 Agricultural Mechanics Shop ___/3
AGET 450 Agricultural Structures ___/3
AGET 460 Waste Management Technology ___/3

PLSC or SOIL Elective - choose one from any 300 or 400 level course:

AG & NRM Electives (14 hours) - Advisor approved courses from Agriculture, Geoscience, or Natural Resources Management:

GENERAL Electives (6 hours) – Advisor approved courses from BIOL, BUSINESS, CHEM, ENGR, FSCI, GEOG, GEOL, MATH, or PHYS:
Sample Program of Study
This list includes all courses required; however, the sequence may be flexible.

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*Humanities, Fine Arts and Social and Behavioral Science Electives must meet the university requirement.
**AGET Electives must be chosen from the specified list on the students’ CAPP for this category.
***AGN Electives may be any course taught in the department. These electives are usually courses that fit the students’ particular career objective such as those required to fill the requirement for the Land Surveying and Geomatics Certification or Geographic Information Systems Certification.
****General Electives may be any course taken within the specific subjects listed on the students CAPP for this category.
*****Plant Science or Soils Electives may be any course at a 300-400 level.