

CAREER & TECHNICAL EDUCATION

AGRICULTURE MECHANICS

In the Agriculture Mechanics Pathway, students learn all about metal fabrication, engine and power systems, energy, electrical, and irrigation systems.

As they work in the shop, students gain hands-on experience as they build and create metal and workshop projects to compete across the state in the Future Farmers of America organization for sweepstakes and scholarship awards. In addition, students also work toward the National Center for Construction Education and Research (NCCER) certifications through Navarro College.

CAREERS IN AGRICULTURE MECHANICS

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

Advanced Process Welder
Machine Programmer
CNC Machine Technician
Safety Inspector
Welding Inspector

PROFESSIONAL CAREERS

(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

Structural Designer
Agricultural Engineer
CNC Programmer
Manufacturing Engineer
Component Drafter

AGRICULTURE MECHANICS

COURSE SEQUENCE

CLUSTER: Agriculture, Food & Natural Resources

CAMPUS: MHS & MHHS

ENDORSEMENT: Business & Industry

FRESHMAN

Principles of Agriculture,
Food & Natural
Resources (1 Credit)

SOPHOMORE

Agriculture Mechanics
& Metal Technology
(1 Credit)

JUNIOR

Agriculture Facilities
Design & Fabrication
(1 Credit)

SENIOR

Agriculture Power
(2 Credits)
or
Practicum in Agriculture,
Food & Natural
Resources (2 Credits)



ADDITIONAL COURSE OPTIONS

Agribusiness Management & Marketing (1 credit)

*Equine Science (1 credit)

*Advanced Animal Science (1 credit)

Ag Mechanics (1 credit)

Landscape Design (1 credit)

Business Management (1 credit)

Digital Media (1 credit)

Graphic Design (1 credit)

BIM (1 credit)

Virtual Business (0.5 credit)

HR Management (0.5 credit)

Advertising (0.5 credit)

Social Media Marketing (0.5 credit)

Entrepreneurship (1 credit)

*Business English (1 credit)

*Political Science (1 credit)

*Financial Math (1 credit)

*Forensic Science (1 credit)

*Medical Microbiology (1 credit)

Professional Communications (0.5 credit)

*Course also fulfills graduation requirement for English, Math, Science, Social Studies or Fine Arts.



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