

Agricultural Mechanics and Metal Technologies Syllabus

Course Description/Goals:

This hands-on laboratory based course curriculum, will prepare students for entry level skills needed for Applied Agriculture Engineering Career such as safety practices, tool operation, carpentry, welding, plumbing, concrete and electrical wiring.

Course TEKS/Objectives:

Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings.

[Agriculture Mechanics and Metal Technologies TEKS](#)

Course Outline:

Semester 1	Semester 2
-Leadership in Agriculture Education -General Safety -Hand Tool ID -Measuring and Marking -Carpentry & Framing -Plumbing -AC Electrical Units	-Concrete (paving & stone) -CAD Drawing -Oxy Fuel Torch -Ironwork / Large Metal -Shielded Metal Arc Welding -Plasma Arc Cutting -Employability