AGRICULTURAL MECHANIZATION (AM)

# Course numbers with the # symbol included (e.g. #400) have not been taught in the last 3 years.

AM #451 - Welding/Fabrication Technology
Credits: 0 or 4
Processes and procedures of welding including: Shielded Metal Arc Welding (SMAW), Shielded Metal Arc Cutting (SMAC), Oxyacetylene Welding (OAW), Oxy-Fuel Gas Cutting (OFC-A), Gas Metal Arc Welding (GMAW), Plasma Arc Cutting (PAC), and Gas Tungsten Arc Welding (GTAW). Welding metallurgy and control of distortion. Special fee. Prereq: permission. 2 lec/2-hr rec.
Equivalent(s): AM 251, AOE 451, EDUC 451

AM 461 - Internal Combustion Engines I
Credits: 0 or 4
Internal combustion engines (spark-ignited and diesel) and their subsystems with emphasis on their design, how they function, preventive maintenance, and troubleshooting. 2 lec/2-hr rec.
Equivalent(s): AM 261, AOE 461, EDUC 461, VTAE 461

AM #470 - Residential Electricity
Credits: 0 or 2
Electrical principles, laws, and installation with emphasis on the "National Electrical Code." While modeled at the residential level, concepts and terminology will be applicable to the commercial and light industrial sectors as well. Concepts and methodologies will be supported with design and when appropriate, hands on application to enhance the learning environment. 2 lec/2-hr rec. (half semester course.)
Equivalent(s): AM 270, AOE 470, EDUC 470, VTAE 470