

Industrial and Agricultural Technology

Levels:	Grades 9-10
Units of Credit:	
CIP Code:	21.0107
Core Code:	38-01-00-00-050
Prerequisite:	None
Skill Test:	None

COURSE DESCRIPTION

Industrial/Agricultural Technology (IAT) is a course designed for rural Utah schools. It is designed to give these schools with their limited staff the option of teaching an exploration of basic curriculum found in the following three program areas, Agriculture Education, Technology and Engineering education, and Trade and Technical Education.

CORE STANDARDS, OBJECTIVES, AND INDICATORS

STANDARD 1

Students will demonstrate basic competencies in oral and written communication skills.

Objective 1: Use oral and written communication, including visual, audio, design and drafting, computers, photography, graphic communications, and telecommunications.

STANDARD 2

Students will explore the areas of agriculture education, technology and engineering education, and trade and technical education.

Objective 1: Study and develop basic competencies in the areas of hydraulics, pneumatics, mechanical, electrical, including small engines, control and maintenance of power systems, automation, conservation and alternative energy.

STANDARD 3

Students will demonstrate basic competencies in use of materials, methods, and tools involved in related trades and processes dealing with construction.

Objective 1: Study and develop basic competencies in the areas of carpentry, plumbing, electrical, metal, and other related trades and processes.

STANDARD 4

Students will study and explore agriculture science/technology, animal science, and plant and soil science.

Objective 1: Study and explore agriculture science/technology, animal science, and plant and soil science through problem solving, research and development activities.

STANDARD 5

Students will develop an understanding of the role of SkillsUSA, TSA or FFA in Technology and Engineering Education, Agricultural Education, and Trade and Technical Education.

Objective 1: Understand the objectives and opportunities of SkillsUSA, TSA or FFA student organizations, including orientation to entrepreneurship.

STANDARD 6

Students will be provided opportunities to explore the area of manufacturing.

Objective 1: Understand measurement systems, safe and appropriate use of tools, procedures and processes in the foundry, welding, cabinetmaking, computer controlled machine, metal fabrication, and etc. industries.

STANDARD 7

Students will study and explore various careers in the industrial and agricultural technology area.

Objective 1: Receive training regarding jobs including aptitude interest inventory, job opportunities (state/area/community), salaries, job conditions, supervised occupational experience programs, and summer agricultural program.