

Professional Technical Studies

PATHWAY: Design & Pre-Construction

CLUSTER: Architecture & Construction

Academics

- Provides appropriate precedents for development of a project

Communication Skills

- Makes a presentation to explain a concept

Problem Solving & Critical Thinking

- Determines alternative solutions for a specific project/problem
- Adjusts plans and schedules to meet project needs

Information Technology Applications

- Uses a CAD system to perform drafting duties
- Uses appropriate computer technology to convey graphic information
- Evaluates and selects building materials and assemblies to meet project specifications

Systems

- Plans, organizes, schedules, and manages a project/job to optimize workflow sequence
- Assesses building systems and their interrelationships to development design criteria
- Identifies industry standards and practices in order to incorporate quality into projects

Safety, Health, & Environment

- Evaluates and aligns sustainable design elements to add value to a project
- Studies the “Americans with Disabilities Act” in order to build compliance into project designs

Leadership & Teamwork

- Uses human relations skills to work cooperatively with coworkers representing different cultures, genders, and backgrounds
- Uses motivational techniques to enhance performance in others

Employability & Career Development

- Pursues education and training opportunities to acquire skills necessary for career advancement