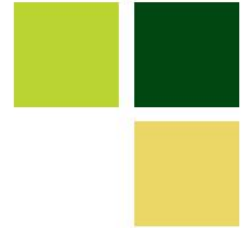


Proposed UCC Industrial Technology Center Plan to Address Our Community Training Needs Today and in the Future



March 11, 2020



Presented by:

Clay Baumgartner

Chair, Applied Science & Technology Department

Member, ITC Steering Committee

Presented on Behalf of Programs for:

Apprenticeship, Automotive, Computer Information Systems,
Computer Science, Engineering, Forestry, Welding, Criminal
Justice, Emergency Medical Technology, Fire Science,
Community Education



2 YEARS OF PLANNING: ITC STEERING COMMITTEE

Issue:

\$40 million identified need
\$16 to \$18 million budget

Outcome:

Integrated Solution
Enhance, Modify, Expand
Ready for New Programs

Apprenticeship Automotive

Engineering Forestry Computer Technology

Welding

Criminal Justice

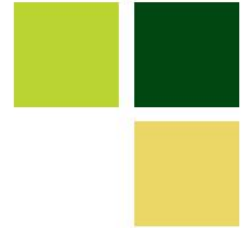
EMT

Fire Science

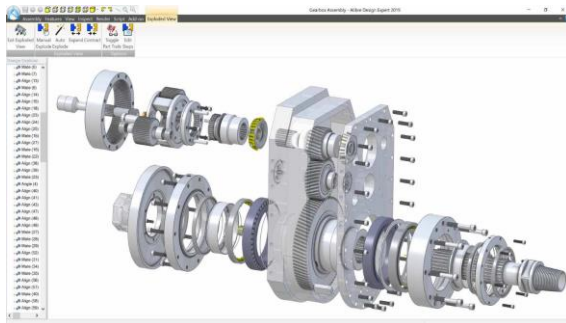
Community Education & Workforce Training



Advanced Technologies in Workplace



Computer Aided Design

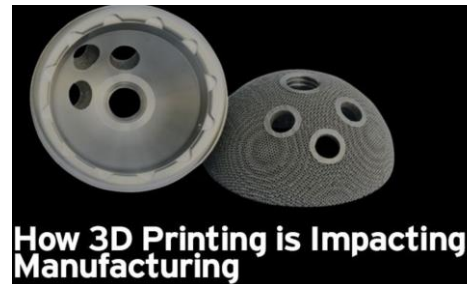


Manufacturing

Automated Manufacturing
Computer Aided Design
CNC Machinery
Robotics



3D Printing

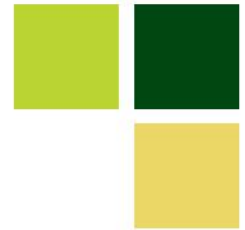


Construction

Buildings, Sitework, Utilities
GPS and Automation



TECHNICAL CENTER – SYNERGY-INTEGRATED TODAY & FUTURE



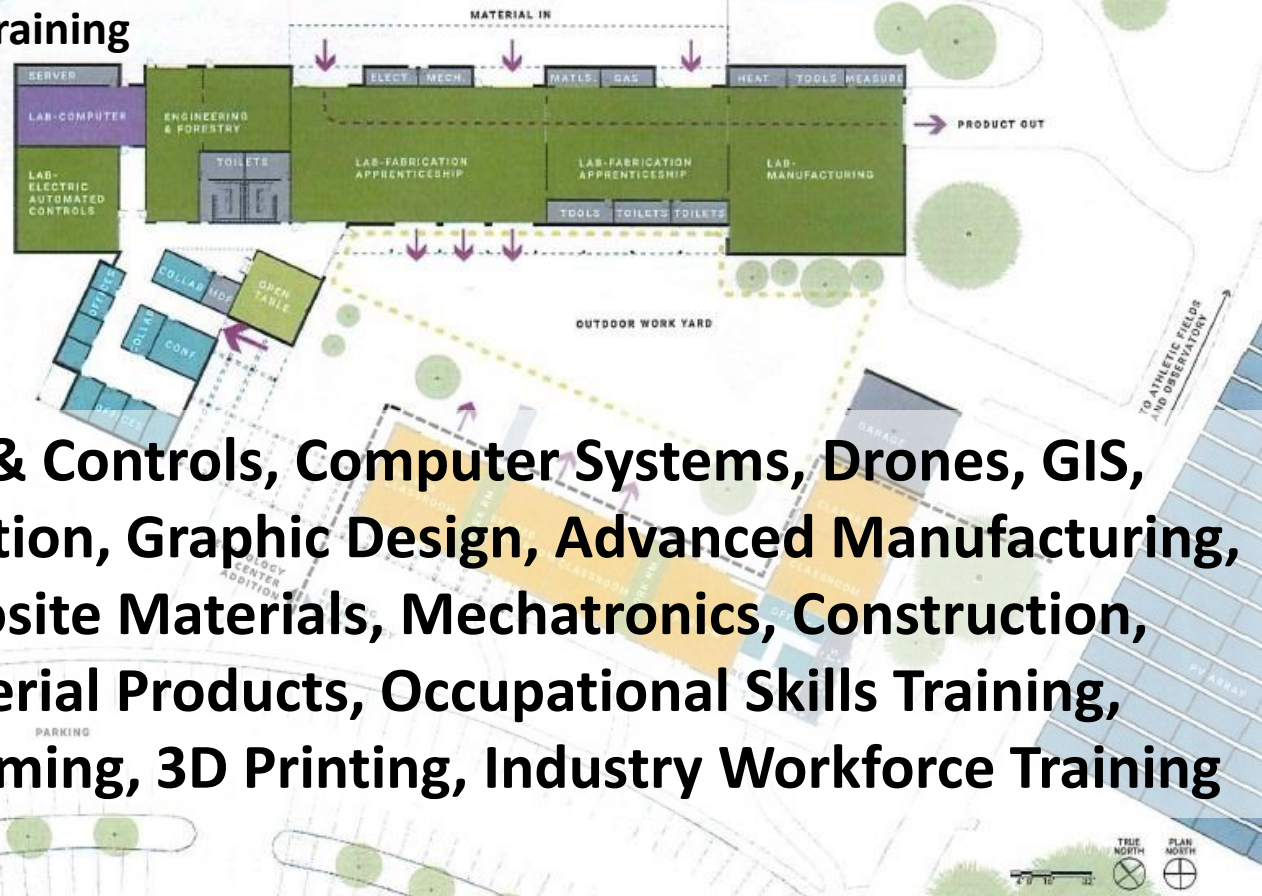
Enhancing Existing Programs

Apprenticeship, CIS/CS, Engineering, Forestry, Welding, Criminal Justice, EMT, Fire Science
Community Workforce & Training

Recruitment/Retention

Modified, Expanded and
New Programs

CAD, Automation & Controls, Computer Systems, Drones, GIS,
Welding & Fabrication, Graphic Design, Advanced Manufacturing,
Machining, Composite Materials, Mechatronics, Construction,
Public Safety, Material Products, Occupational Skills Training,
Robotics, Programming, 3D Printing, Industry Workforce Training



Fabrication, Welding, and Machining

Programs

- Welding
- Apprenticeship
- Manufacturing
- Engineering
- Renewable Materials-
Wood Products

Equipment

- Welding
- Plasma Cutting
- Manual Machining
- CNC Machining
- Waterjet
- Heat Treatment
- Measurements



Electronics, Automation, and Controls

Programs

- Apprenticeship
- Engineering
- Manufacturing
- CIS/CS

Equipment

- Signal generators, power supplies, oscilloscopes, multimeters
- Programmable Logic Controllers
- Motors and motion controllers
- Robots and drones
- Pneumatics



Forestry and Engineering



Programs

- Forestry
- Engineering
- Renewable Materials - Wood Products

Equipment

- Countertop workspaces with sinks, air, and electricity
- Vent hoods
- Engineering testing
- Storage for forestry and surveying field equipment
- Portable saw mill



CAD/GIS Lab



Programs

- Apprenticeship
- CIS
- Engineering
- Forestry
- Welding

Equipment

- CAD workstations with multiple monitors
- Projection
- AutoDesk, SolidWorks, ArcGIS
- Visual Studio, Matlab



Open Table Lab



Programs

- Welding
- Manufacturing
- Apprenticeship
- Engineering
- Forestry
- CIS

Equipment

- TV monitors on walls
- Large tables
- Storage



Collaboration Space



Programs

- All Programs
- Student Clubs

Application

- Interdisciplinary student projects
- Student club workspace

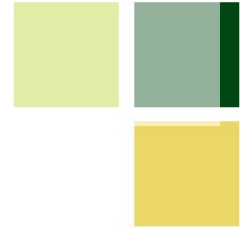
Equipment

- Working Tables
- TV Monitors
- 3D Printers
- Laser Cutter



Public Safety

Enhanced, Modified, Expanded, and New Programs



Programs

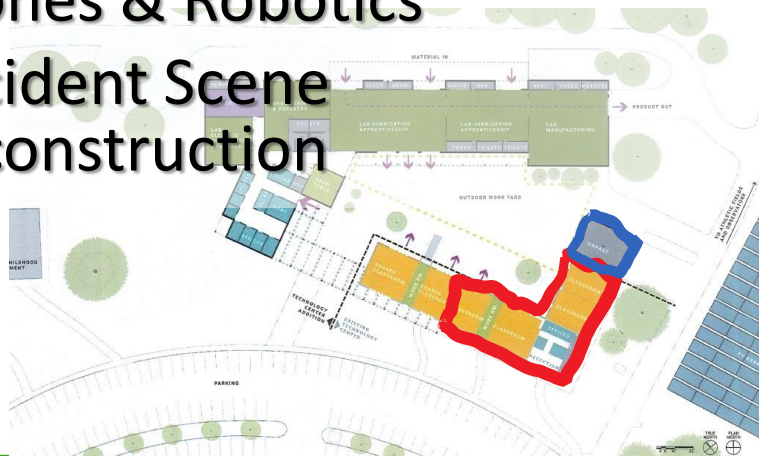
- Criminal Justice
- EMT
- Fire Science

Synergy

- Wildland Fire Fighting
- GIS Mapping
- Drones & Robotics
- Accident Scene Reconstruction

Application

- Central Administrative Offices
- Grouped Class Rooms
- Scenario Rooms
- Equipment Storage
- Covered Storage for Fire Trucks and Emergency Vehicles



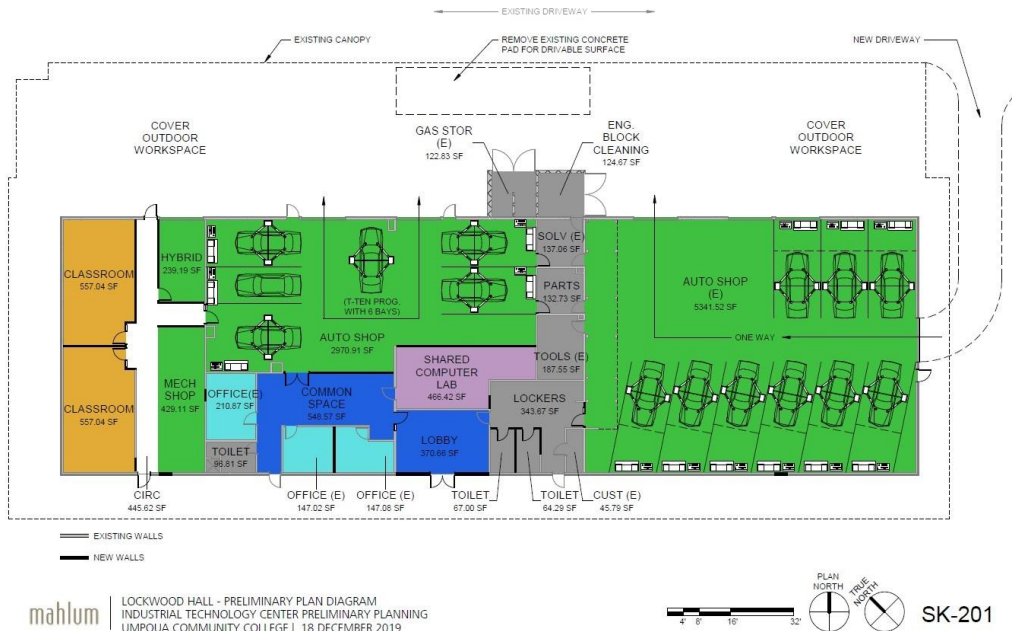


LOCKWOOD FACILITIES PROGRAM ENHANCEMENTS & NEW OFFERINGS

Enhanced, Modified, Expanded, and New Programs

Light Diesels
Alternative Fuel Vehicles
Hybrids
Electric Powered Vehicles

Autonomous Vehicles
Advanced Control Systems
Occupational Skills Training
Workforce Training



Questions?

Follow-up Information?

