State-of-the-Art GATEWAY facility with emphasis on Specialized Instructional capabilities showcasing:

**Edison Innovation Level 1**
- Collaboration Area with Adjacent Machine & Wood Shop, Clean Manufacturing, and Wet Labs
- Electronics/Robotics Lab
- Student Group Meeting Rooms

**Fred Pirkle Level 2**
- Innovative Lobby / Pre-Function Space
- Fred Pirkle Honorific Museum
- Multipurpose Classrooms
- Computer Automated Drafting (CAD) with Plotter Room
- Alternative/Sustainable Energy complete with Wind Tunnel Lab and Energy Terrace
- Academic Outside Learning Courtyard

**Thomas Jefferson Level 3**
- Animal Science Physiology and Research Lab
- Agriculture Science Computer Lab
- Floral Design Lab
- Agriculture Science Student Teacher Classroom
- Adjunct Faculty Offices / Resource Room
- Student Lounge/Multimedia Workroom

**Sam Houston Level 4**
- Departments Chair Suite
- Faculty and Support Staff Offices
- Seminar and Conference Rooms
- Group Work Areas and Business Centers
- Grad Students & Teaching Assistant Areas
Collaboration Area:
- Innovation/Production
- Provides Support, Tools and Equipment for Designing, Building, Developing, and Prototyping Long-Term Multidisciplinary Projects

Electronics and Robotics Lab
- Electronics Components
- Robotics Workstations
- Lab Storage

Clean Manufacturing and Wet Lab
- 3D Printers
- Universal Laser System
- Lead Free Reflow Oven
- Cleaning Enclosure

Group Meeting / Break-out Rooms
- Fully IT/AV equipped
- On-Site Technician Supervisor

Machine Shop:
- 3D Printers
- Vertical Mills
- Drill Press & Belt Sanders
- Floor Mounted Band Saw

Woodworking Shop:
- Wood Lathes
- Miter & Table Saws
- Planer

Exterior Covered Work Area
- With Separate Storage

Building Services
- Building Utility Room
- Elements of Teaching Incorporated with Visuals
- Storage Rooms

“I haven’t failed. I’ve just found 10,000 ways that don’t work.” Thomas Edison – American Inventor and Businessman
“Genius is one percent inspiration, ninety-nine percent perspiration.” Thomas Edison – American Inventor and Businessman
Fred Pirkle Engineering Technology Center

“FRED PIRKLE LEVEL 2”

Innovative / Pre-Function Lobby
- Fred Pirkle Rotating Display overlooking Collaboration Area
- Video Screen Wall
- Audio/Visual equipped for Presentations

Multipurpose Classroom(s)
- 3 Multipurpose Classrooms
- Opens to 1 Large Event Space/Classroom
- Furniture Storage

Alternative Energy/ Sustainability Lab
- Energy Systems and Sustainability Lab
- Wind Tunnel Lab
- Exterior Energy Terrace
- Lab Storage for Solar Powered Carts

Fred Pirkle Honorific Museum
- Fred Pirkle Honorific Memorial
- Interactive Museum Concept
- Reflection Lounge

Computer Laboratories
- Computer Automated Design (CAD)
- Print/ Plot Area
- Storage/ Tech Office

Outdoor Academic Courtyard
- Presentation Deck

“There are people who make things happen, there are people who watch things happen, and there are people who wonder what happened. To be successful, you need to be a person who makes things happen.” Jim Lovell – Astronaut
"Imagination is more important than knowledge. Knowledge is limited. Imagination encircles the world." Albert Einstein – Theoretical physicist and violinist
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“THOMAS JEFFERSON LEVEL” 3

Animal Science Physiology Labs
- 2 Animal Science Labs
  - option to combine to 1 Large Group
- Prep Lab with Refrigerated Storage

Animal Science Research Lab
- Universal Testing Machine
- Imaging System
- Centrifuges
- Exhausted Fume Hood

Agricultural Science Student Teacher Classroom
- Practice Teaching Methods & Techniques
- Tutorial Rooms
- Multimedia Room for Lecture Preparation
- Curriculum/Storage Room

Agriculture Business Computer Lab / Seminar Room
- Collaborative Classroom Set-Up with 6 round tables
  - For Group Work Stations
- All Table Computers connect to Large Display
- Multimedia / Work Room Adjacent for Out-of-Class Work

Horticulture Science and Crop Lab
- Floral Design Lab featuring Display Case
- Direct Access to Receiving and Storage Space
- Walk-In Cooler
- Moveable Group Work Tables

Adjunct Faculty Offices / Resource
- 6 Adjunct Offices for Part Time or Temporary Faculty

Student Lounge
- Culminates Short-term Reading, Studying, and Social Interaction

“The two most important days in your life are the day you are born and the day you find out why.” Mark Twain
“I like the dreams of the future better than the history of the past.” Thomas Jefferson
Exclusively Administration
- Conference Room
- Group Work Areas
- Faculty Lounge with Kitchenette
- Work Room
- File Room

Department Chair Suite
- 2 Department Chairs
- 2 Assistant Chairs
- 2 Administrative Assistants
- Reception / Waiting Area
- Conference Room
- Faculty Lounge

Faculty Seminar Room
- Large Faculty Seminar / Meeting Room
- Audio / Visual equipped
- Countertop for Catering

Faculty Offices and Support Staff
- Conference Room
- Group Work Areas
- Faculty Lounge with Kitchenette
- Work Room
- Business Centers

Graduate Student and Teaching Assistant Carrel
- 3 Groups of Open Office Carrels
- Group Collaboration Areas
- Business Centers with networked Print Stations

“I experience a higher feeling of dignity and self-satisfaction from teaching in that little schoolhouse than from any other office or honor I have held.” Sam Houston
Faculty / Staff Offices

Departments Chair Suite and Faculty Lounge & Work Room

“Tell me and I forget. Teach me and I may remember. Involve me and I learn.” Benjamin Franklin
Emergency Shower And Eyewash Cleaning Enclosure

Innovation Collaboration Area

Axonometric View at Innovation Lab

Rendering at Innovation Lab

Enlarged Plan - Innovation Lab

Lead Free Reflow Oven
Universal Laser System
3D Printer
Clean Manufacturing

Small Wet Lab

Collaboration Area
Emergency Shower And Eyewash

Fred Pirkle Engineering Technology Center

Innovation Collaboration Area

Lawrence Group Design Development Submittal - January 2015

Lab Class Meeting Office Public Conf. Reception Support
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Northwest side of level 1:
1. Lathe
2. Drill Press(2)
3. Belt Sander
4. Vertical Mill
5. 3D Printer
6. Floor Mounted Band Saw(2)
7. Table Saw
8. Planner
9. Shaper
10. Wood Lathe
11. Miter Saw-bench Top

Northeast side of level 1:
1. Cleaning Enclosure
2. S-1
3. 3D Printer(3)
4. Lead Free Reflow Oven
5. Universal Lase System VLS 3.50
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Electronics / Robotics

Advance Equipment and Technology
Fred Pirkle Engineering Technology Center

Three multipurpose Classrooms with an option to open to one large auditorium.
Southeast of level 2:
1. Wind Tunnel
2. Energy Systems
3. Sustainability Lab
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Faculty & Staff Offices with Support Space and Conference Rooms

Axonometric View at Chair's Office Suite

Rendering at Chair's Office Suite

Chair's Office Suite

Enlarged Plan - Chair's Office Suite

- Lab
- Class
- Meeting
- Office
- Public
- Conf.
- Reception
- Support