Featured Projects, In-Progress

- Fall 2021 Reopening
- Student Housing Turnover
- ETEC
- ETEC Maker Space
- LC Maker Space + One Stop
- Former Albany High School (FAHS)
- Bus Rapid Transit (BRT)
- Main Podium Fountain: Enhanced Experience
- Colonial Parking and Pedestrian Improvements
- Cooling Tower Replacement
- ADA Improvements
- Earth Science & Mathematics
- Taconic Building

- Lecture Center Renovation 4 + 5
- University Hall Branding
- PE Building Renovation
- Campus Wide Energy Projects
- Parking Lot ID’s
- Student Housing Summer Turnover Coordination
- Indigenous Quad Renaming
- Rehab Toilet Rooms for ADA Compliance
- Blue Light/Emergency Phone
- Colonial G + H
- Athletic Complex
- Campus Center Roof
- Downtown Academic Roofs
Fall 2021 Reopening
FURNITURE RESETS
Instructional Space Resets

So Many Stations, So Little Time….
2831 Stations ➔ 8345 Stations 7 weeks

A Story of Furniture, Computers, and Stickers….
Instructional Space Resets

Covid

Pre & Post Covid
Instructional Space Resets

Covid

Pre & Post Covid
Amenity Space Resets

Covid

Pre & Post Covid
Student Housing Turnover

COORDINATION AND SCHEDULING
## Residence Hall Summer 2021 Planning Schedule

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## Indigeneous quad

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## Adirondack (A)

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## Gorges (B)

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| Montreal (S) |        |        |     |      |      |        |             |       |
| Parking |        |        | 1 1 | 1    | 1    | 1      |             |       |
| Gym |        |        | 1 1 | 1 1  | 1    | 1      |             |       |
| Vending |        |        | 1   | 1    |      | 1      |             |       |
| UPH facade |        |        | 1   | 1    | 1    | 1      |             |       |
| UPH window |        |        | 1   | 1    | 1    | 1      |             |       |
| EHS |        |        | 1   | 1    | 1    | 1      |             |       |
| Total PTE |        |        | 12  | 12   | 12   | 12     |             |       |

| Oneida (F) |        |        |     |      |      |        |             |       |
| Parking |        |        | 1 1 | 1    | 1    | 1      |             |       |
| Gym |        |        | 1 1 | 1 1  | 1    | 1      |             |       |
| Vending |        |        | 1   | 1    |      | 1      |             |       |
| UPH facade |        |        | 1   | 1    | 1    | 1      |             |       |
| UPH window |        |        | 1   | 1    | 1    | 1      |             |       |
| EHS |        |        | 1   | 1    | 1    | 1      |             |       |
| Total PTE |        |        | 12  | 12   | 12   | 12     |             |       |

| Oneida (C) |        |        |     |      |      |        |             |       |
| Parking |        |        | 1 1 | 1    | 1    | 1      |             |       |
| Gym |        |        | 1 1 | 1 1  | 1    | 1      |             |       |
| Vending |        |        | 1   | 1    |      | 1      |             |       |
| UPH facade |        |        | 1   | 1    | 1    | 1      |             |       |
| UPH window |        |        | 1   | 1    | 1    | 1      |             |       |
| EHS |        |        | 1   | 1    | 1    | 1      |             |       |
| Total PTE |        |        | 12  | 12   | 12   | 12     |             |       |

<p>| Seneca (C) |        |        |     |      |      |        |             |       |
| Parking |        |        | 1 1 | 1    | 1    | 1      |             |       |
| Gym |        |        | 1 1 | 1 1  | 1    | 1      |             |       |
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## Residence Hall Summer 2021 Planning Schedule

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### Details for Columbia
- **Vendor:** LA
- **Status:** In Progress
- **Stay:**
  - May: 0
  - June: 0
  - July: 0
- **August:**
  - 0
- **Notes:**

### Details for Interiors
- **Vendor:** LA
- **Status:**
  - May: 0
  - June: 0
  - July: 0
- **August:**
  - 0
- **Notes:**

### Details for Laundry
- **Vendor:** LA
- **Status:**
  - May: 0
  - June: 0
  - July: 0
- **August:**
  - 0
- **Notes:**

### Details for Move In/Out
- **Vendor:** LA
- **Status:**
  - May: 0
  - June: 0
  - July: 0
- **August:**
  - 0
- **Notes:**

### Details for No. Staff
- **Type:**
  - In Progress:
    - May: 0
    - June: 0
    - July: 0
- **August:**
  - 0
- **Notes:**

### Details for Notes
- **May:**
  - 0
- **June:**
  - 0
- **July:**
  - 0
- **August:**
  - 0
- **Notes:**

### Additional Details
- **Residence Hall Summer 2021 Planning Schedule**
- **Vendor:** LA
- **Status:**
  - May: In Progress
  - June: In Progress
  - July: In Progress
  - August: In Progress
- **Notes:**
  - End of summer
  - Preparing for next academic year
## Residence Hall Summer 2021 Planning Schedule

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### Dutch Quad

- [Departmental meeting day](#) | UA |
- [Clean-up and remodeling](#) | UA |

### Van Rensselaer (A)

- [Parking] | UA |

### Stuyvesant (B)

- [Parking] | UA |

### Ten Eyck (C)

- [Parking] | UA |

### Ten Broeck (D)

- [Parking] | UA |

### Schuyler (E)

- [Parking] | UA |

### Additional Notes:

- Total PIs: [Insert Total PI Count]
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## Residence Hall Summer 2021 Planning Schedule

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<th>Buildings</th>
<th>Vendor</th>
<th>Status</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
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<th>Notes</th>
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</table>

### Copper (S)

- **Painting**: PRO 63% Status: 12% May: 3 June: 3 July: 1
  - 8/7

### Fath (C)

- **Painting**: PRO 63% Status: 12% May: 3 June: 3 July: 1
  - 8/7

### Iving (D)

- **Painting**: PRO 63% Status: 12% May: 3 June: 3 July: 1
  - 8/7

### Melle (E)

- **Painting**: PRO 63% Status: 12% May: 3 June: 3 July: 1
  - 8/7

### Salmac (S)

- **Painting**: PRO 63% Status: 12% May: 3 June: 3 July: 1
  - 8/7

---

**Legend**:
- **PM**: Paint Major
- **PM**: Paint Minor
- **W**: Wash
- **D**: Deep Clean
- **L**: Light Cleaning
- **H**: High Clean
- **N**: Normal Clean
- **C**: Common Area
- **R**: Resident Area
- **W**: Window Wash
- **W**: Whole Building

---

**Note**: The schedule is updated as per the latest information available.
### Residence Hall Summer 2021 Planning Schedule

<table>
<thead>
<tr>
<th>Location</th>
<th>Work</th>
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#### Taggart (R)

- **Engineering**
  - Project: *Project Description*
  - Status: *Status Description*
  - Percent: *Percent Completion*

#### Wilderness (M)

- **Engineering**
  - Project: *Project Description*
  - Status: *Status Description*
  - Percent: *Percent Completion*

#### Tannen Tower

- **Engineering**
  - Project: *Project Description*
  - Status: *Status Description*
  - Percent: *Percent Completion*

### Notes

- *Note 1*
- *Note 2*
- *Note 3*
<table>
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<tr>
<th>Buildings</th>
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<th>Vendor</th>
<th>Status</th>
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<th>June</th>
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*Legend: Green = Occupied, Yellow = Contracted, Blue = Construction*
ETEC

Scope:
- ASRC, CEHC, DAES, ESE, ECE, NWS, NYS Mesonet, etc.
- Business development offices and industry partners
- 200+ FT Faculty, 100 Researchers, 800 Students

Schedule:
- Currently in-construction
- Completion Summer 2021
### ETEC - Occupancy Schedule - DRAFT Rev 05-26-21

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<thead>
<tr>
<th>Dept/Unit</th>
<th>Projected Move Date</th>
<th>May-21</th>
<th>Jun-21</th>
<th>Jul-21</th>
<th>Aug-21</th>
<th>Sep-21</th>
<th>Oct-21</th>
<th>Nov-21</th>
<th>Dec-21</th>
<th>Jan-22</th>
<th>Future 2022</th>
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<tr>
<td>DAES</td>
<td>8/3 - 8/5/21</td>
<td>WK1</td>
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<td>NW5</td>
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<td>CEHC</td>
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<td>OCED/OIDC/BDSC</td>
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<td>Maker/Tinker</td>
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- **UAlbany takes possession of ETEC**
- **Fall 2021 classes begin**
- **Prep work for moves**
- **Physical moving period**
- **Spring 2022 classes begin**
Roadmap Plan for ETEC Makerspace

Equipment & Safety
- Quantity
- Size
- FFE
- Type

Capacity & Safety
- Expected No./User types

Org Structure & Safety
- Management Structure
  - Pro/Students
  - Number of Staff
  - Monitoring

Access & Safety
- Card Access
- Training tags
- Machine Access
- Operation Hours
- Online presence
- Online scheduling and reservation system

Training & Safety
- Training sets
- Safety Protocols Plan
- First Aid Plan

Operations & Safety
- Material
  - Supply & Waste
  - Tools
  - Monitoring
  - Programs
  - Workshops

Funding
- Branding
- Grants and donations
- Sponsors
- Maker Club funding
- Specialty Workshops
- Memberships
- Student fees
- MakerSpace Mini-Mart
- Tours and marketing

Expected Outcomes
- Equipment List + Space Plan
  - Expected No.
    - Open/Limited
    - Working Hours
- Management structure + Monitoring System
- Type of Access + Working Hours
- Levels of trainings + Safety Protocols + First Aid Plan
- Supply & Waste + Maintenance + Support programs
- Brand + Marketing + SSSS
Executive Summary

Housed in Emerging Technology and Entrepreneurship Complex (ETEC) at the Harriman State Office Campus, a 1800-square-foot facility at University at Albany, ETEC Makerspace is planned to foster an innovation center, makerspace and entrepreneurship ecosystem that welcomes UAAlbany community. The UAAlbany committee on ETEC Makerspace has decided to further explore the concept of a makerspace. The recent growth and rapid adoption of makerspaces and 3D printing technology in R1 institutions will impact the tools that our future students, researchers, and faculty will expect to have access to. The mission of this committee was to determine what role a makerspace could serve UAAlbany students and if the University at Albany campus and community could benefit from one. Based on the environmental scan, which involved the literature review of current makerspaces in educational institutions and online research on nationwide makerspaces, we believe that a makerspace within ETEC building will greatly benefit UAAlbany students, researchers, and faculty. It will provide an open space that will allow them to explore and utilize new technology that has a significant impact on hands-on learning, instructional space, cutting-edge research, and innovative programming.
This committee recommends the creation of ETEC makerspace which would include woodwork/metalwork equipment, 3D printers, arts and crafts, and computers with the appropriate software for modeling and visualizing 3D objects as detailed in the recommendations section of this report. The makerspace would also organize workshops and programs to promote technological experimentation and idea prototyping to the UAlbany community.

To fund the creation of the makerspace, the committee has identified two potential fee-based options that would help cover some costs associated with creating the space if applied for. Other potential sources of funding include soliciting donor funds for technology and stakeholder contributions. In order to best support the needs of students, researchers, and faculty, the Task Force also recommends that this project be pursued as soon as the funds are available.

**Arts and Sciences**
- Gaffney, Elizabeth J
  Assistant Dean
- Dikarev, Evgeny
  Professor

**Atmospheric & Environmental Sc**
- Torn, Ryan
  Professor & Chair
- Rose, Brian
  Associate Professor
- Hillman, Aubrey L
  Assistant Professor
- Murty, Sujata A
  Assistant Professor

**Atmospheric Sciences Rsch Ctr**
- Schwab, James
  Senior Research Associate
- Brotzge, Jerald
  Principal Rsch Support Spec
- Lance, Sara M
  Research Associate
- Miller, Scott
  Research Associate
- Schwab, Janie
  Adjunct Research Associate
- Sicker, John W
  Lead Programmer Analyst
- Covert, Jason M
  Research Technician III

**CEHC**
- Goodall, Jennifer J
  Vice Dean
- Roche, Matt J
  Asst. Dean, Finance & Admin
- Leczinsky, Michael C
  Lecture

**Environmental & Sustainable Engr**
- Liang, Yanna
  Professor and Chair
- Bar, Md. Aynul
  Assistant Professor
- Khan, Zahirul H
  Lecturer
- Millard, Paul J
  Lecturer

**Blackstone LaunchPad**
- Neff II, Richard B
  Entrepreneur in Residence

**Facilities and Management**
- Millington, Errol C
  Interim AVP for Facilities
- Bunzey, Bradley
  Staff Associate
- Whaley, Matthew C
  Construction Manager
- Mohamedali, Ahmed I
  Staff Assistant
“Makerspace” refers to a community-operated workspace where people with common interests, often in computers, machinery, technology, science, digital art or electronic art, can meet, socialize and collaborate.” (Henry 2012)

What is a Makerspace?

A makerspace is often used interchangeably with similar terms such as hackerspace or fab lab. But they are not synonyms. Colegrove (2013) describes a fab lab, a hackerspace, and a co-working space as follows.

“A fab lab is a workshop designed around personal manufacture of physical items—typically equipped with computer-controlled equipment such as laser cutters, multiple axis Computer Numerical Controlled (CNC) milling machines, and 3D printers. A hackerspace is more focused on computers and technology, attracting computer programmers and web designers. Co-working space is a shared working environment offering much of the benefit of the social and collaborative aspects of the informal hackerspace, while maintaining a focus on work that appeals to independent contractors and professionals rather than hobbyists.” (Colegrove 2013)

According to Colegrove, a makerspace encompasses a continuum of activity that includes “coworking,” “hackerspace,” and “fab lab,” all of which focus on making rather than consuming. The goal of a makerspace is to foster and facilitate creativity and innovation by providing a playful and informal learning environment for hands-on experimentation and learning-by-doing experience...
Based upon our research about makerspaces nationally and internationally in research institutions, this committee supports the creation of a makerspace in ETEC building located on the southwest corner of the Harriman Campus. We believe that the following vision and role would be suitable for the ETEC makerspace.

**Vision**
Promote, support, and facilitate hands-on learning and research activities and creative experimentation, which are vital to innovation. Develop and cultivate a vibrant and inviting collaborative workspace where students, researchers, and faculty members exchange ideas and tinker with physical objects, machining, and 3D prototyping to experience what it is like to make ideas into reality.

**Role**
Provide access to machines, equipment, and 3D printing/modeling technology to enable UAlbany students, faculty, and researchers to quickly create, build and/or prototype to test theoretical ideas and concepts and to keep them up to date with technologies that drive current innovations.

The committee also recommends the following for service model, educational training, and program planning for the makerspace.

**Service Model**
We recommend the ETEC makerspace operate on the open studio model with the mandatory completion of safety training and a workshop that introduces patrons to safe use of resources available in the makerspace. By minimizing the barrier to accessing new technology, the open studio model allows to make a makerspace inviting to those with little experience or knowledge.

**Educational Training**
We recommend that the ETEC makerspace offer regular training and workshops on safe operation of equipment and 3D modeling to grow more maker attitude on campus. It would be ideal if online tutorials, handouts, and training manuals for first-time users are also available. But developing such instructional materials will be the responsibility of the managing staff at the early stage of the makerspace.
Makerspace Programming Committee

The committee also recommends the creation of a standing advisory committee for the ETEC makerspace programming. This advisory committee will plan and organize interesting talks, presentations, making activities, and workshops by inviting UAlbany students and faculty and other local makers and scientists. In the beginning stage, it is hard to determine the level of interest or demand for the makerspace on campus. Active programming will be a key to generate the necessary buzz - a mix of inspiration and excitement - that would be crucial to establishing and cultivating the new ETEC makerspace as an active peer-to-peer learning and collaboration space and to growing a community of makers on the UAlbany campus.

Equipment and Resources

Makerspaces typically organize their workspace by “shops” for each industry. The most common shops at makerspaces include, but are not limited to, rapid prototyping, welding, CNC, woodworking, textiles, jewelry, and machinery. Equipment varies from makerspace to makerspace, especially in makerspaces that are oriented towards a particular industry and the quantities of equipment varies from space to space.

Start-Up Equipment Investment

While there are industry leaders for the vast majority of equipment, prices can vary dramatically for equipment depending on the quality and whether it's intended for industrial use. Typical start-up equipment investment ranges from approximately $500,000 to $2 million per makerspace depending on the amount of equipment and desired shops.

Makerspaces can receive sponsorship and donations from equipment manufacturers and distributors which will impact the investment costs.
We recommend the following items in each category as an appropriate set of equipment, tools, and resources for the ETEC makerspace in its beginning stage. As the makerspace evolves and the ETEC managing staff gain more understanding about the users’ needs and demand, more items should be added for it to better serve the UAlbany community.

**List of Equipment**

**Thinker Space:**
- High performance computers for machine operation, instruction, projects, workshops, etc.
- Crafts Cabinet
- Printing station
- Sewing Machine
- Vinyl cutting machine

**Prototyping and 3D printing**
- Resin Printing System
- Resin Printing Post Processing
- FDM- 3D Printer
- Large Format Laser Cutter
- High performance computers for machine operation, instruction, projects, workshops, etc.
- Soldering Station

**Machine Shop:**
- Sheet Metal Shear and Brake
- Light Duty Press
- Drill Press with Float Lock Head
- Tool Sharpening Grinder
- Belt Sander
- Band Saw
- Table Saw
- Miter Saw
- Lathe
- Dry Band Saw
- Tile Saw
- 3 Axis CNC Router
- Jointer
- Planer
- Scroll Saw
- Cordless power tool combo kit
- Wood clamps, clamping systems.
- Kreg Pocket Hole Jig Master Sys.
- Rubber Mallet
- Generic Tool Set
- Hand Sanding Tools
- Dremel 4000 Rotary Tool
- Hack Saw, Hand Saws, etc.

**Location**

ETEC Makerspace will be the home to a wide variety of equipment and tools for prototyping and fabrication, enabling users to move through complete design processes — from initial sketch to refined prototype. It will be open to faculty, students, and staff regardless of previous experience, grants semesterly access and safety training.

“In a space designed to mix students of different disciplines, expertise levels, and modes of engagement, ETEC Makerspace provide a range of opportunities for hands-on, team-based learning, from workshops to independent tinkering and co-curricular offerings”.

ETEC Makerspace is offering multiple spaces that are available for thinking/tinkering (Thinker space), fabrication/creation (Machine shop), and 3D printing/laser cutting (Prototyping studio).
**Thinker Space**

Thinker space offers a “design lounge”, located on ETEC Building basement level (room B042), for drop-in project workspace or study space; project team meetings and work sessions; and club meetings and student events.

The design lounge is a resource open to all UAlbany students. The workshop includes:
- 12 computer design station.
- 3 studio-style tables.
- 2 LCD screens.
- Crafts cabinet and workstation.
- Lockers and charging station.

This space is also the site of many workshops offered by members of the ETEC makers community, including Design Specialists, Advanced Prototypers, Design Fellows, and student clubs.

**Machine Shop**

The machine shop is located on the basement level (room B045) and contains a broad range of woodworking tools to help you whether patrons building and a range of tools for work with metal. With equipment like sheet metal suite, mill/lathe combo, and fastener sets, the Machine Shop can help patrons square and polish up their final designs to machinists’ standards. With tools such as saws, sanders, drills, and computer-controlled routers to choose from, machine shop is the perfect place to help realizing next woodworking or metal projects.
**Prototyping Studio**

Whether patrons want to create a three-dimensional object for everyday use or need to prototype a high-quality part for a larger project, Prototyping Studio can help. With laser cutter, soldering station, design stations and two different types of 3D printing equipment available—desktop FDM or industrial FDM—they can choose the option that best suits their needs.

Prototyping studio is located on first floor (room 0173) equipment with resources and tools needed to turn visions into reality.

**ETEC Maker Office**

This room located on the basement (room B046), will host the managing team with security and monitoring system, increase operational visibility and maintain security throughout its machines, workspaces, and entry points by implementing state-of-the-art video surveillance system.

Also, this room offer a place to store expensive parts and projects while work in progress.

**Operation and Staffing**

**Staff Expertise**

This committee acknowledge that most of the makerspace operation and maintenance work will be the responsibility of the ETEC makerspace managing staff. This will require some detailed description of their work duties. But the actual volume of work required for the makerspace operation and maintenance is hard to determine in advance. Consequently, we would like to leave some room for actual operational details.

The recommendations below may well be subject to change depending on variables such as the makerspace’s management model, setup, equipment, and support staff availability. We would also like to point out that the ETEC makerspace itself will evolve over time and therefore the operational details should be amenable to future adjustment.
Makerspace Management

This committee also recommends that at least one or two makerspace staff members should be a full-time staff with versatile set of expertise and knowledge to be able to provide consultation and guide makerspace staff. For more detailed information about Makerspace manager qualifications, experience responsibilities and duties, see “Maker Manager Job Description”.

“The ongoing staff training will be necessary for the staff to stay on top of fast-changing technologies in this field”.

Access Policy

The ETEC makerspace should be open and accessible to all UAlbany students, faculty, and researchers. The committee recommends that users complete mandatory safety training and the introductory workshop on 3D prototyping before being granted the full access. The makerspace should also hold open hours, during which a staff member will be available for a quick introduction to the makerspace. At all times, access will be controlled with a UAlbany card reader that lets in only those who completed the required training and workshop. If certain equipment susceptible to possible theft or misuse can be secured. Whichever measure is taken for the security of the area, it is important to keep in mind that those measures should not be perceived as a barrier for interested patrons to come into the makerspace out of curiosity.

Operating Hours

We recommend three types of hours:

(i) **Staffed open hours** for walk-in visitors during which a staff member will be available at the makerspace,

(ii) **Unstaffed open access hours (only applies to thinker space)** during which the space is open but unstaffed. We recommend that the makerspace be set up in a way that will allow those who have completed the mandatory training and the introductory workshop to fully use thinker space equipment such as a computers and other devices,

(iii) **Consultation hours** available by appointment during which a staff member will provide one-on-one assistance.

The further implementation details should be determined depending on the actual staffing and the set-up of the ETEC makerspace.
Staffing

The makerspace must be staffed by those who are enthusiastic and knowledgeable about fabricating and prototyping and are capable of operating and maintaining makerspace tools and equipment. It is hard to estimate the appropriate level of staffing for the makerspace without knowing much about what the responses on campus would be to this new facility. It would be ideal to keep the makerspace fully staffed. But if the demand is low, extensive staffing would be a waste of resources.

For this reason, the Task Force recommends that ETEC makerspace should recruit students who are already experienced in woodworking, metalworking, crafts, and 3D printing. Those student workers must go through training and approval to mentor process, also they can be directed to create and develop online tutorials and handouts. This committee recommends the following organizational structure to successfully operate ETEC makerspace:

Proposed Staffing Org. Structure Chart

Management

Shop Manager

Masters
(Students)

Machine Shop
CNC, Lathe, CAD/CAM
Woodshop & CAD/CAM
Laser Cutter, SD Printer & Programming
Vinyl Cutter, Crafts & Programming
Workshop, Programming, Funds, Sponsorship, Tours

Prototyping

Arts & Crafts

Event Coordinator

Superusers
(Students)

Funding Sources

We recommend seeking funding that will allow the makerspace to operate free of charge. Ideally, free-use will encourage people to try out and experiment with the new technology without cost barriers. However, until getting enough momentum to operate free of charge, fees would be charged to recover the cost of staffing, maintenance, and consumables. Suggested annual operation budget is around $120,000 consisted of:

- $55,000 - manager’s salary,
- $30,000 - student staffing, and
- $35,000 - maintenance and consumables.

The potential funding sources to cover running expenses are charging two types of fees:

- Student fee added to tuition fees campus wide despite being a member of not.
- Service fee on materials and select equipment time helps covering consumables and maintenance costs.
Based on our research and site visits to local makerspaces, we believe that active promotion and programming are key to the success of a makerspace and that they are as important as the makerspace equipment in sustaining its visibility and attraction to the target group. Staff at multiple makerspaces mentioned that their programs were well attended and helped others learn more about the resources available within the space. They further commented that in general, speakers were not too difficult to schedule. In fact, on more than one occasion, one of us attempted to sign up for a program offered by a makerspace only to find out that it was already full. It is clear that programming that educates on the use of new technologies and inspires creativity and innovation is crucial to developing and sustaining a successful makerspace.

**Promotional Ideas**

Promotional ideas for developing interest in ETEC makerspace include but not limited to:

- Organize a small maker faire or expo.
- Hold an annual contest for the best creation/invention.
- Hold an idea contest for the new ETEC makerspace events.
- Create an email list of those who express interests in the ETEC makerspace.

**Programming Ideas**

Some potential programming ideas include:

- Inviting speakers from existing other makerspaces to talk about the creations made in.
- Having local inventors discuss what they have created using makerspaces and prototyping technologies.
- Invite experts in various fields.
- Invite well known innovators for inspiration and the promotion of entrepreneurship.
- Host a symposium on makerspaces and prototyping innovations.

**Resources**


**Appendices**

- ETEC Makerspace Equipment & Safety Training.
- ETEC Makerspace Safety Self-Inspection Checklist.
- ETEC Makerspace User Agreement.
- ETEC Makerspace Mill/Lathe Policy Summary.
- ETEC Makerspace Equipment Safety Printouts.
- R1 Institutions with Makerspace Research
- R1 Institution Makerspaces with Public Private Partnerships Research
- Maker Manager Job Description
LC Maker Space + One Stop

RENOVATION
Lecture Center Maker Space

Scope:
A new space for students to learn, create, build and craft.

- Phase 5 – Lecture Center Renovation
- Currently in early design
- Completion, 2023

One Stop Services

Scope:
A new space on campus that collocates student service departments.

- Currently in pre-programming
- Completion, TBD
Schematic design proposal for LC Maker Space location
Former Albany High School (FAHS)

RENOVATION
Scope

- Gut rehab of the South Wing to provide ~ 33,000 NSF of occupiable space, including MEP’s, furniture and AV.

Schedule:

1. Construction Start: July 2021
2. Construction Completion: March 2023
3. Occupancy: June 2023
Former Albany High School, Phase IV

Sub-ground Floor

Phase IV
Former Albany High School, Phase IV

Second Floor
Bus Rapid Transit (BRT)
BRT

Scope
Develop a connection through campus to downtown

Project Status
- Easement
- Maintenance Agreement
- MOU
- Schedule

Schedule
1. Bid June 2020
2. Construction to begin summer 2021
3. End 2022
Fuller Road To Indigenous Quad
Indigenous Quad to Boor Studio
Main Podium Fountain: Enhanced Experience

PLACEMAKING
Main Fountain: Enhanced Experience

- **PHASE 1** – Spring 2021
  - Furniture

- **PHASE 2** – Summer 2021
  - Lighting
  - Planters
  - Glass Graphics
  - Asphalt Art
Colonial Parking and Pedestrian Improvements
Colonial Parking and Pedestrian Improvements

Project Summary

- Relocate existing parking from south side to east side
- Reduce lot to one entry
- Reduce vehicle and pedestrian conflicts between Empire Commons, Colonial Quad and Podium
- Resurface and stripe parking lot
- Associated landscape and lighting improvements
Cooling Tower Replacement
Cooling Tower

**Scope**

- Chiller replacement
- In-review at this time

**Completion**...
ADA Improvements
**Scope:**
Renovate accessible walkways and curb cuts on Freedom Quad, replace door hardware and adjust door pressures on the accessible route in the basement of the Podium and install a new 3 stop elevator at Hawley Library.

**Tentative Schedule, Phase 1:**
- Design Start: July 2021
- Construction Start: April 2022
ADA Improvements, Freedom Quad, Site Accessibility Upgrades

Scope
ACCESSIBILITY MODIFICATIONS
PARTIAL SITE PLAN
FREEDOM QUAD

Key to Symbols:
- Accessible Space
- New Ramp
- New Concrete Curb Cut
- Accessible Threshold
- New Concrete Walk
- New Asphalt Walk
- Handicap Door Openers

Add directional signage
> Freedom Quad Office

Modify parking striping and add/move signage

Add crossing striping, modify parking striping, and add/move parking signage; see Crossing Detail, DWG no. A-2
ADA Improvements, Podium Basement Accessible Route, Door Modifications

- Replace door hardware and adjust door pressures on the accessible route in the basement of the Podium
ADA Improvements, Hawley Library, Elevator

Hawley Elevator providing accessibility from basement to 2nd floor

Accessible Route
Earth Science & Mathematics

RENOVATION
Earth Science & Mathematics

Scope

- Provide new lower division class labs, classrooms, and support space.

Schedule:

1. Bid: July 2022
2. Occupancy: July 2025
Taconic Building

REFRESH
Scope
- Refresh throughout, with offices, classrooms, and new high tech huddle rooms.

Schedule:
1. Construction: In-progress
2. Occupancy: July 2022
Lecture Center
Renovation 4 + 5

RENOVATION AND ADA COMPLIANCE
Lecture Center Renovation

- Lecture Center Renovation Phase 1, 
  *Completed*

- Lecture Center Renovation Phase 2, 
  *Final Construction (exterior)*

- Lecture Center Renovation Phase 3, 
  *In Construction*

- Lecture Center Renovation Phase 4, 
  *In-Design*
Lecture Center Renovation Phasing Plan

8 PHASE PLAN
University Hall Branding

PLACEMAKING
University Hall Branding

Scope

Phase 1
- Install in the Atrium, completed
- Install new reception station, completed

Phase 2
- Add branding in conference room, in-progress
- Add branding in vestibule, in-progress
- Improve wayfinding, in-progress
University Hall Branding

PHASE 1
PHASE 2
Cut vinyl letters over painted background

Glass remains clear
Interior trim remains as is

Cut vinyl letters over painted background
PE Building Renovation
PE Building Renovation

Scope:

- Renovate Gym & Infill Pool – in-progress
- Phased Renovation – next 6-10 years
PE Building Renovation
Renovate Gym & Infill Pool – PE Building

- Complete by Summer '22
- Complete by Summer '22
- Complete by Summer '22
- Complete by Spring '23
Campus Wide Energy Projects
GREEN IMPROVEMENTS
Uptown Solar Panels

- Podium Solar PV-1.5MW solar array panels
- 4,800 panels are being installed on 8 podium building and LSRB
- This will generate about 60% of the anticipated electricity use for ETEC
- Completion August 2021
ENERGY

Interior Lighting Upgrades
Replace nearly 7,000 interior fixtures and almost 1,500 exterior fixtures, Uptown and Downtown, Completion Summer 2021

LSRB HVAC Upgrades
Reduce LSRB energy use while improving lab safety through continuous measurement of lab and vivarium conditions. Completion Fall 2023

Athletics Geothermal
Analyzing viability of geothermal heat pump system to provide cooling, heating, and possibly domestic hot water to the entire athletic complex. Completion Fall 2021
Parking Lot ID’s
Indigenous Northwest Dutch Colonial State

Northwest Colonial State

Athletics

Dutch Athletics

Indigenous
Rehab Toilet Rooms for ADA Compliance
Rehab Toilet Rooms for ADA, Phase 2, 3 & 4

Scope:
- Rehab 79 restrooms in 14 buildings on the Uptown and Downtown campuses;
- Provide 19 All Gender restrooms in 14 buildings;
- Provide 5 Lactation rooms in 5 buildings.

Schedule:
4 Phases with construction to be completed around by Fall 2024.
All Gender

Lactation
Single Occupancy Restrooms – Existing Signage

1. RESTROOM
2. MEN
3. WOMEN
4. RESTROOM
5. UNIVERSAL RESTROOM
6. FAMILY
7. BATHROOM
8. UNISEX
Single Occupancy Restrooms – New Signage
Indigenous Quad Renaming
Welcome to Indigenous Quad
(formerly Indian Quad)
Blue Light/Emergency Phones

UPDATES
Blue Light Emergency Phones

**Scope:**
- Remove emergency phones from 46 restroom, Universal and lactation room locations;
- Install emergency blue light phones in 16 new; basement and 1st floor locations in 8 buildings.

**Schedule:**
1. Removals by June 2021
2. Completion is yet to be determined.
Colonial G + H

RENOVATION
Scope:
Gut rehab converting the basement kitchen/dining area into a 17,000 sf Fitness Center, rehabilitating the (2) 94 bed residential units into 2 suites and studios each with restroom and shower facilities.

Tentative Schedule:
- Construction Starts: May 2022
- Construction Completion: May 2024
- Occupancy: Fall 2024
ATHLETIC COMPLEX

Athletics’ Priorities
1. SEFCU Arena
2. Air Structure (Indoor Practice Facility)
3. SEFCU Core
4. SEFCU Addition
5. Football Building
Enhancements and amenities to greatly improve fan experience

- Rotates court to allow for more arena-like bowl seating
- Various seating options - from bleacher seating to high-end plush seating
- Increases ADA seating availability
- Combination of both fixed and retractable seating to continue to allow for increased floor area for non-gameday activities.

Current budget estimate is $7.5M but will increase due to new change requests.

Construction starts still undetermined but anticipate at least 12-month project duration.
Air Structure (Indoor Practice Facility)

- Size based on current installation at Utica College (roughly 136,000sf, 4x bigger than former bubble structure)
- Cost estimated at $4-6M depending on amenities
- Would house synthetic turf field (80% reg football field), NCAA-compliant indoor track, other amenities as space allows
- Small ancillary building structure may be included (budget dependent) to house lockers, showers, coaching offices, etc.
Further design paused at start of CDs until funding becomes available. No further timeline available at this point.

Estimated construction value to date about $12.5M.

Design likely to change somewhat pending anticipated changes to Arena and planned changes to PE Phase02.
Football Building

Scope:
- ~25,000 SF
- Includes:
  - Football Offices
  - Football Locker rooms
  - Strength & Conditioning

Schedule: > 10 + Years
Campus Center Roof

RENOVATIONS
Campus Center Roof

Scope

- PCB removal, removal and replacement of existing EPDM roofs, and repair and paint of existing skylights.

Schedule:

- Bid process start on September/October 2021
- Construction start May 2022
- Completion Fall 2022.
P-1190 CAMPUS CENTER RE-ROOF PROJECT

SCOPE OF WORK
1. REMOVAL AND REPLACEMENT OF EPDM ROOF SYSTEM AT CAMPUS CENTER
2. REPAINTING OF SKY DOME STRUCTURE AND REPLACEMENT OF VISION PANELS AT SAME SKY DOME
3. PCB REMOVALS ASSOCIATED WITH REPLACEMENT OF EPDM ROOF SYSTEM

SCHEDULE
250 CALENDAR DAYS

BIDDING TO OCCUR IN SEPTEMBER/OCTOBER 2021

CONSTRUCTION BEGINS IN MAY 2022
Downtown Academic Roofs

REPLACEMENTS
THANK YOU
OFFICE OF FACILITIES MANAGEMENT