KANSAS STATE UNIVERSITY

Salina

Aerospace and Technology Campus

NEW ACADEMIC CENTER

Program and Concept Study September 2021



FOUNDATION

PGAVARCHITECTS

ACKNOWLEDGMENTS

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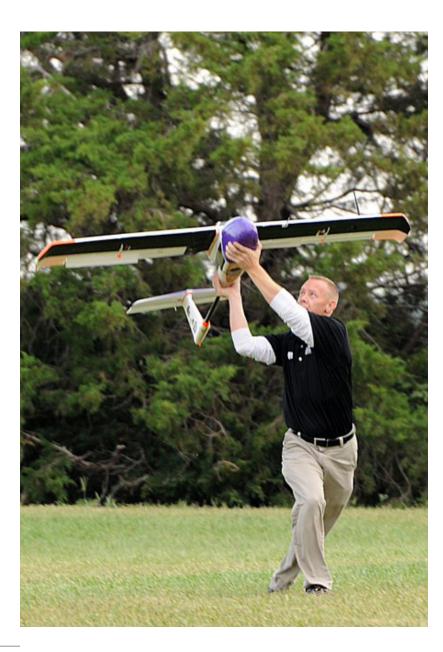
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PLANNING SCOPE / PROCESS

PLANNING SCOPE / PROCESS

The study establishes the scope and estimated costs for a new state-of-the-art academic teaching and research center for integrated studies in Aviation Technology, Robotics, Automation, and Advanced Manufacturing. It also develops a strategy for consolidating the overall campus footprint to reduce deferred maintenance liabilities by demolishing seven aging and unsatisfactory buildings.

The study was conducted using the three-step planning process described below.

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Program Confirmation

- Access existing campus and building conditions
- Develop building space program and site design requirements
- Evaluate alternate sites for new buildings and identify preferred options
- Develop space consolidation strategies

02

Concept Development

- Conceptual site plan and building organization diagrams
- ROM cost estimates for alternative planning scenarios
- Identify preferred planning scenario(s) for future development

Fundraising Material & Concept Report

- Final concept site plan
- Conceptual floor plans
- Building space program
- 3-D Renderings
- ROM conceptual cost estimate and timeline
- Final report

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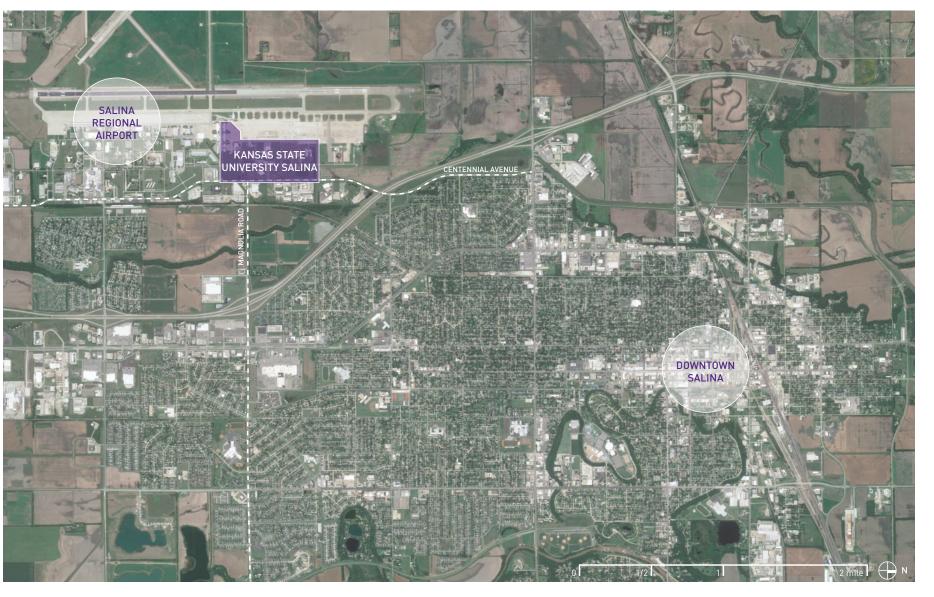
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PROJECT OVERVIEW



K-STATE AEROSPACE AND TECHNOLOGY CAMPUS LOCATION MAP

BACKGROUND

K-State Aerospace and Technology Campus at Salina is the home of the University's College of Technology and Aviation. K-State Salina offers degree programs in the fields of engineering technology and aviation, consisting of associate, bachelor and master's degrees. The College's three departments are Aviation, Integrated Studies, and Unmanned Aircraft Systems (UAS).

Approximately 800 students are currently enrolled at K-State Salina. Approximately 85 percent of the student body comes from Kansas and 80 percent attend on a full-time basis. The campus also hosts the PolyCATS Academy, which is compromised of high school students who utilize the campus' facilities for coursework and can complete an associate degree before graduation. K-State Salina has been experiencing enrollment growth since 2018 and projects continued enrollment growth to 1,200 - 1,500 students over the next 25 years.

The focus of the campus is around the student experience and career readiness, and it emphasizes innovative learning, real-world experiences, and industry connections. Campus facilities include multiple teaching laboratories for student projects, multiple aircraft hangars, an open-air flight pavilion for the UAS program, and three runways at the Salina Airport which is directly west of the campus.

K-State Salina has unique academic space needs: its students occupy class labs for 3 - 4 hours at a time; flight students, which represent ~60% of enrollment, access and interact with aircraft for one-on-one instruction; and in the College's

Aviation Maintenance program, section sizes are limited by FAA capacity regulations and competency is based on 2,000 hours of instruction. The Aviation Department anticipates as many as 300 - 350 new students per year by 2045, which in addition to impacting physical space, will impact flight schedules which translates to personnel, fleet size, and parking.

PROJECT VISION AND PRIORITIES

K-State Salina's Campus Vision document describes aligning the institution's vision with the Global Aviation Initiative to realize success, and articulates the following vision for the campus:

Kansas State University's Aerospace and Technology Campus will be a global leader in aerospace innovation and talent development.

The campus will advance the transformation of the aerospace industry through innovative education, influential research, entrepreneurial thinking, and technology centered, sustainable solutions to complex industry problems.

To achieve the vision, three pillars / integrated areas of strength form the foundation for K-State Salina's leadership in the field of Systems Engineering:

- Manned Aviation
- Unmanned Systems
- Advanced Manufacturing

As it looks to the future, K-State Salina has established parallel priorities to align it's campus facilities plan with it's strategic goals and objectives including:

1. Developing new facilities to support the University's teaching, research, and extension mission, evolving academic programs, and current and projected enrollment growth through 2045.

 Creating a plan to decommission and demolish aging unsatisfactory buildings to consolidate the campus building footprint and reduce significant deferred maintenance liabilities.

PROJECT GOALS AND OBJECTIVES

The study identified the following goals and objectives:

- Develop a new academic teaching and research
 facility for Integrated Studies that will allow
 K-State Salina to diversify and align academic
 program curriculum to support the pressing
 needs of industry workforce development,
 accommodate current and projected enrollment
 growth, and replace outdated and undersized
 spaces in Technology Center, Technology Center
 West, the UAS Laboratory, and the Composites
 Building.
- Repurpose and maximize the utilization of existing facilities in satisfactory condition including Technology Center and Technology Center West for centralized student services and auxiliary campus service uses to support a new model for student services delivery.
- Accommodate enrollment growth in the Aviation Flight and Aviation Maintenance programs by freeing up space in the Aviation Center / Stevens Flight Center for the flight program's expansion and relocate Aviation Maintenance to new facilities at some point in the future.

- Develop the physical campus to improve the pedestrian and overall student experience by creating an identifiable pedestrian oriented academic core at the heart of the campus.
- Improve the campus arrival experience with the creation of a new campus gateway from Magnolia Road. Move toward a more attractive and sustainable campus grounds maintenance program by establishing native grasses and walking trails, etc.
- $\bullet \qquad \hbox{Reduce the need for off-campus leased space}.$

This study was informed by the land use strategies recommended in the 2013 Campus Master Plan including reinforcing the campus's central academic core, creating a welcoming new campus gateway / entrance (as an extension of Magnolia Road), and organizing student parking at the campus perimeter.

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EXISTING CAMPUS AND BUILDING CONDITIONS

EXISTING CAMPUS

K-State Salina's campus is located on the west side of Salina directly adjacent to the Salina Airport.

Magnolia Road is a major east / west connector and links the campus to Salina proper, and Centennial Avenue, which runs along the east edge of the campus, is a major north / south connector along Salina's west side.

The campus was originally the site of Schilling
Air Force Base, and original buildings from the
1950s and earlier remain in use. The campus is
compromised of 21 freestanding buildings, and in
addition there are three structures (shown as white
on the campus map) which are owned by the Salina
Airport Authority. Several of the older buildings
have been adapted to academic teaching use or
support uses; generally the teaching environments
in these older buildings are not configured for
current pedagogy and modes of education. In
addition, the majority of these buildings are
reaching the end of their service life and present
the campus with significant deferred maintenance
liabilities.

The dispersed nature of the campus buildings combined with large open expanses of green space between buildings does not contribute to the creation of a traditional university campus feel or strengthen a sense of academic community. The campus' interior road network is also a holdover

from the site's use as an Air Force base and does not support intuitive wayfinding.

Newer campus buildings including the Technology Center, Technology Center West, College Center, and Student Life Center are attractive, in good condition, collocated, and begin to create a sense of academic community. Despite their fair condition the majority of the instructional teaching labs in the Technology Center and Technology Center West are undersized and organized in a manner that does not encourage interdisciplinary teaching and research.

Schilling and Harbin residence halls, just north of the College Center, and a third residence hall slated for completion in 2022 create an identifiable residential zone.

EXISTING BUILDING CONDITIONS

The campus' 21 buildings and the two structures it leases from the Salina Airport Authority are summarized on the following chart which includes existing square footage (GSF) and building condition data for each structure. The study focused on the buildings used for academic and support facilities:

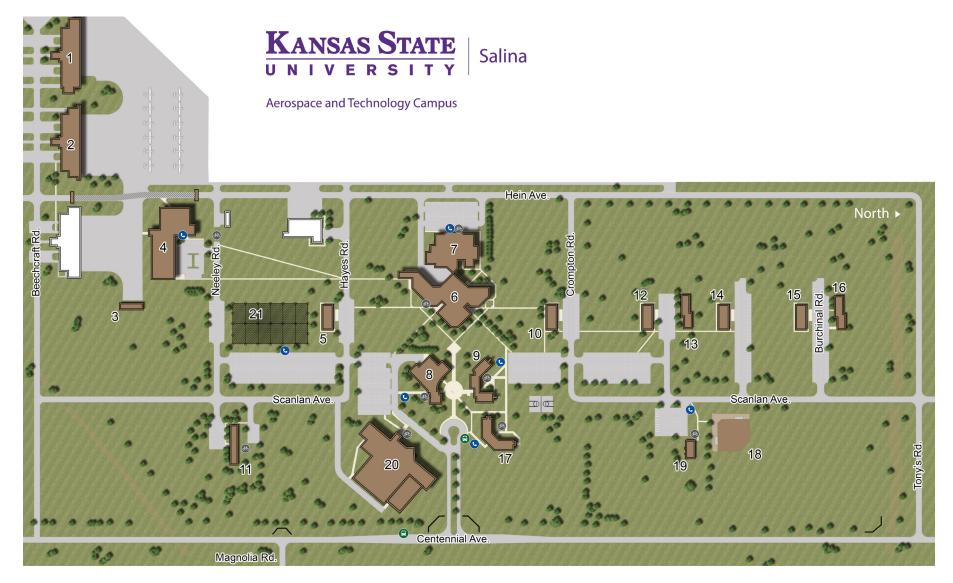
- (15) Campus Buildings ~245,330 GSF
- (2) Leased Buildings ~12,349 GSF

The campus' Student Life Facilities, at the bottom of the chart, are not included in the study. The UAS

Flight Pavilion is open air and is not included in the total GSF calculation for existing buildings.

The existing condition information is from the 2020 Kansas Board of Regents (KBOR) Report on State University Building Inventory, Space Utilization and Facilities Condition. For each building, the report includes a Facilities Condition Index (FCI), which represents cost of deferred maintenance divided by estimated replacement value. The higher the FCI, the poorer condition of the facility. The FCI is translated to a letter grade scale from Excellent (A) through Deficient (F).

The planning study included a tour of the Technology Center, Technology Center West, Composites Building, and the Aviation Center / Stevens Flight Center. Additional buildings were reviewed with building users to confirm existing space use. (See existing building floor plans in the Appendix).



- 1 Aeronautical West Hangar
- 2 Aeronautical East Hangar
- 3 Composite Building
- 4 Stevens Flight Center
- 5 UAS Laboratory
- 3 OAS LADOIATOR
- 6 Technology Center
- 7 Technology Center West
- 8 College Center

- 9 Schilling Hall
- 10 Tullis Building
- 11 Kuhlman Center
- 12 Outreach Center
- 13 Extension Center
- 14 Construction Lab
- 15 Facilities Maintenance Shops
- 16 Facilities Maintenance Offices

- 17 Harbin Hall
- 18 Thaemert Park/Sports Field
- 19 Sports Support Facility
- 20 Student Life Center
- 21 UAS Flight Pavilion

	Academic & Support Facilities				Existi	ing Buildin	g Building GSF Building Condition Data (2020 KBOR Report)				Estimated Operating & Deferred Maintenance Costs for Buildings Proposed to be Demolished		
Campu s Plan #		Univ. Bldg. #	Building Name	Existing Use	On- Campus GSF	Leased Space GSF	Total GSF		FCI Grade Scale (A- F)	Utility Cost	FCI Cost (KBOR Asset Overview 2021)	Renewal Cost to 90% (KBOR 2020 Study)	
1	1954	703	Aeronautical West Hangar	Hangar	29,952			0.26	В				
2	1956	704	Aeronautical East Hangar	Hangar	28,247			0.24	В				
3	1942	705	Composites Building	Teaching Lab (AVM Program)	2,100			0.35	С	\$1,927	\$225,234	\$130,774	
4	1990	706	Aviation Center/Stevens Flight Center	Aviation Dept. Office / Flight and AVM Programs	39,071			0.30	С				
5	1956	708	U.A.S Laboratory	Unmanned Aircraft Systems Teaching Lab	5,537			0.28	В	\$4,060	\$452,942	\$253,047	
6	1985	709	Technology Center	Library / Classrooms / Teaching Labs / Faculty Offices	66,876			0.13	Α				
7	1985	709	Technology Center West	Classrooms / Teaching Labs / Faculty Offices / Campus IT				0.13	Α				
8	1995	710	College Center	Campus Administrative Offices	25,162			0.26	В				
10	1956	712	Tullis Building	Faculty Office / Student Support Services	5,774			0.34	С	\$2,248	\$482,612	\$334,645	
11	1955	713	Kuhlman Center (Welcome Center)		6,530			0.13	Α				
12	1956	714	Outreach Center	Professional Education and Outreach	5,687			0.01	Α				
13	1966	715	Extension Center (formerly Sci. Ctr.)	Central KS Extension / Campus Security Office	9,873			0.31	С	\$5,559	\$1,197,633	\$546,935	
14	1956	716	Construction Lab	Professional Education and Outreach	5,537			0.36	С	\$2,525	\$436,073	\$302,193	
15	1956	717	Facilities Maintenance - Shops	Garage / Wash Bay / PME Shop / Offices	5,537			0.56	D	\$6,609	\$813,923	\$592,697	
16	1955	718	Facilities Maintenance - Offices	Postal Room / Carpentry Shop / Storage	9,447			0.55	D	\$1,606	\$1,317,109	\$998,658	
Adj.		820	SCE 101 - Off Neeley Road	Faculty Offices / Classroom		2,296							
Off-Site		600	Airport Authority Owned Hangar	UAS Applied Aviation Research Center		10,053							
21	2016	708A	U.A.S Flight Pavilion	Open air pavilion for unmanned aerial vehicles	0								
			Student Life Facilities	Subtotal (GSF)	245,330	12,349	257,679			\$24,534	\$4,925,526	\$3,158,949	
			Trade and rudinities										
9	1994	711	Schilling Hall	Student Housing	20,940			0.25	В				
17	1997		3	Student Housing	19,907			0.25	B				
18	.557	_	Thaemert Park / Sports Field	- Stadent Hodding	.5,501			0.23					
19	2005		Sports Support Facility		1,922			0.03					
20	2009		Student Life Center		37,628			0.03					
				Subtotal (GSF)			l.	3.00					

Per KBOR facilities data, the asset value of the buildings proposed to be demolished (in gray) is \$4.9M, compared with the cost of \$3.2M to correct building deficiencies (renewal to FCI 0.1 or 90 percent condition)

325,727

TOTAL GSF EXISTING ON-CAMPUS BUILDINGS

BUILDING CONSOLIDATION STRATEGY

K-State Salina has proposed seven aged structures, totaling 43,805 GSF, to be decommissioned / demolished following the construction of a new Academic Center to reduce ongoing and deferred maintenance liabilities. The buildings are from the 1940s, 50s, and 60s with FCIs in the C and D range, (with the exception of the UAS Laboratory, noted to be a "B").

- Composites Building (#3) 1942
- UAS Laboratory (#5) 1956
- Tullis Building (#10) 1956

16

- Extension Center (#13) 1966
- Construction Lab (#14) 1956
- Facilities Maintenance Shops (#15) 1956
- Facilities Maintenance Offices (#16) 1955

Construction of a new Academic Center is the first step in implementing a campus building consolidation strategy. Construction of the new Academic Center will allow unsatisfactory teaching labs in the Technology Center and Technology Center West to be rightsized and collocated.

Vacated spaces in the Technology Center and Technology Center West can then be repurposed for use by student services and auxiliary campus support service functions which currently occupy Tullis Building, Extension Center, Construction Lab and Facilities Maintenance Shops and Offices buildings.

In addition, K-State Salina proposes to convert the Outreach Center (#12) to leased space for the Central Kansas Extension Office which is currently housed in the Extension Center, and proposes to move the UAS Department's Applied Aviation Research Center (AARC) from its off-site leased location to the main campus.



BUILDING #3 | COMPOSITES BUILDING



BUILDING #5 | UAS LABORATORY



BUILDING #10 | TULLIS BUILDING



BUILDING #12 | OUTREACH CENTER



BUILDING #13 | EXTENSION CENTER



BUILDING #14 | CONSTRUCTION LAB



BUILDING #15 | FACILITIES MAINTENANCE



BUILDING #16 | FACILITIES MAINTENANCE



TEACHING LAB IN TECHNOLOGY CENTER



TEACHING LAB IN EXTENSION CENTER #13



SHOP IN MAINTENANCE BUILDING #15



TEACHING LAB IN TECHNOLOGY CENTER



OFFICE IN FACILITIES BUILDING #16



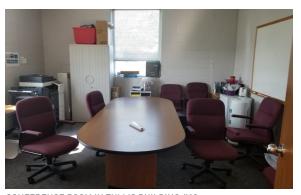
COMPUTER LAB IN TULLIS BUILDING #10



TEACHING LAB IN TECHNOLOGY CENTER



STORAGE ROOM IN FACILITIES BUILDING #16



CONFERENCE ROOM IN TULLIS BUILDING #10

SPACE NEEDS ASSESSMENT

PROGRAMMING OVERVIEW

The study developed space programs for three components / strategies as part of K-State Salina's future facilities plan:

- New Academic Center
- Aviation Maintenance Program Relocation
- Technology Center and Technology Center West Backfill

NEW ACADEMIC CENTER

The program vision for the new Academic Center is to collocate instructional and research laboratories supporting the College's Integrated Studies and UAS Departments in a state-of-the-art facility to:

- Further K-State Salina's multidisciplinary approach to engineering education
- Provide teaching and research laboratories that simulate real-world environments and support applied education
- Provide an environment that appeals to industry partners and prospective students
- Create a new campus gateway and entry experience for the campus

The following precedent images represent the types of spaces that will be found in the new Academic Center.



WICHITA STATE UNIVERSITY - JOHN BARDO CENTER LOBBY



BOSTON UNIVERSITY - ENGINEERING PRODUCT INNOVATION CENTER (EPIC) - ROBOTICS LAB



TEXAS A&M - ZACHRY ENGINEERING COMPLEX - MULTIDISCIPLINARY LAB

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AVIATION PROGRAM EXPANSION

The Aviation Department is housed in the Aviation Center / Stevens Flight Center (Building #4) which is utilized to capacity. Growth trends in both the professional pilot / aviation program and in the Aviation Maintenance (AVM) program supports the need for additional learning / educational space.

 The Flight Program's space needs include hangar space for maintenance of its aircraft and additional spaces for instruction - i.e., kiosks for briefing / debriefing exercises, classrooms, and faculty offices.

In order to meet the Flight Program's immediate short term need for additional instructional space, the phase 1 Academic Center space program includes (2) large general use classrooms which will allow (3) existing general use classrooms in Building #4 to be converted to expanded instruction space for the flight program.

AVM PROGRAM RELOCATION

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The planning process identified the need for an expanded AVM facility as enrollment grows in this popular program. The concept study anticipates future construction of a new AVM building to meet this need and allow Building #4 to be dedicated for use by the Aviation Flight Program.

The program vision for AVM's facilities is to support an increase in capacity from (1) 25-student cohort up to (3) 25-student cohorts in state-of-the-art facilities with direct runway access.



BUILDING #4



VM HANGER



FLIGHT SIMULATOR

TECHNOLOGY CENTER AND TECHNOLOGY CENTER WEST BACKFILL

The program vision for the future Technology Center Building complex is to serve as the home for consolidated Auxiliary Campus Services, Student Services functions, and Professional Education and Outreach which are operating in the aged structures targeted for decommissioning / demolition. These services would be collocated with the existing Library and relocated Testing Center to provide a new centralized hub for Student Support Services at the heart of campus.

- Student Services groups include Student Support
 Services, Upward Bound Program, Student Life, and
 Student Clubs and Organizations. Existing space for
 these functions is currently located in multiple buildings
 including Tullis Building (#10).
- Auxiliary Campus Services is comprised of the Campus Operations team (Facilities, IT, and Security)
- Professional Education and Outreach conducts professional training sessions oriented to the community and supports life long learning.



JOHNSON COUNTY COMMUNITY COLLEGE - STUDENT CENTER



KANSAS STATE UNIVERSITY - COLLEGE OF BUSINESS ADMINISTRATION

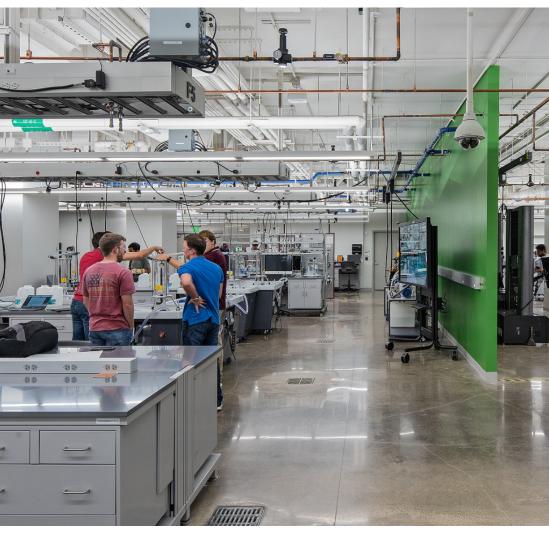


KANSAS STATE UNIVERSITY - HALE LIBRARY

PROGRAMMING ASSUMPTIONS

The following assumptions were developed in discussions with the project steering committee and form the basis for the new Academic Center Space Program.

- Planning time frame to 2045. The program includes modest increases for future staff and faculty.
- Increase capacity of general-purpose classrooms.
 Increase existing classroom capacity from 24-student to 40-students to improve space utilization, teaching efficiency and support active learning.
- Maintain teaching lab capacities of 20-students.
 Size basic science teaching labs (Chemistry, Physics) for 24-students to allow for growth.
- Create interdisciplinary instructional / research labs. Collocate and configure integrated studies, robotics and automation, and technology and computer systems teaching labs to simulate real-world environments that student will encounter in Industry. Develop a Composite Structures Center of Excellence (formerly Metallurgy and Composites labs).
- Consolidate academic facilities in satisfactory condition. Primarily the Aeronautical East and West Hangars and the Aviation Center / Stevens Flight Center.
- Collocate staff groups. Auxiliary campus services and student support services work groups are currently distributed. Collocation will improve work processes and access.



TEXAS A&M - ZACHRY CENTER - INTERDISCIPLINARY TEACHING LAB

PROJECTED SPACE NEEDS

The following tables summarize the space program for the new Academic Center, the Aviation Maintenance Program Relocation, and Technology Center and Technology Center West Backfills.

NEW ACADEMIC CENTER

The new Academic Center space program totals 59,901 NSF / 98,484 GSF (not including AARC) and is proposed as a two phase building project.

Construction of phase 1 of the Academic Center will alleviate pressure on the Flight Program space needs in Building #4 and will allow the building consolidation process to begin as functions in aging campus buildings are relocated into Technology Center and Technology Center West.

The programming exercise developed strategies to optimize the utilization of general-purpose classrooms. The new Academic Center space program includes (9) classrooms sized for active learning (35 NSF/student) which will replace (12) existing classrooms:

- Aviation Center (Building #4) (3) General-Purpose Classrooms are proposed to be converted for use by the Aviation Flight program
- Technology Center complex (Building #6, #7) (9) General-Purpose Classrooms are proposed to be converted for Campus Operations, Professional Education and Outreach, and Student Services

(See Appendix for Comparison of Existing versus Proposed General-Purpose Classrooms for detailed information)

PUBLIC SPACE	2,980
Building Lobby / Central Space	
Student Study	
FACULTY OFFICES & ADMINISTRATION	4,856
Departmental Office / Shared Support	
(19) Faculty Offices	
GENERAL PURPOSE CLASSROOMS	2,800
(2) @ 40-seat Classrooms	
TEACHING / RESEARCH LABS & SUPPORT	22,873
AI & Virtual Reality Lab (20-students)	
Composite Structures Center of Excellence Teaching Lab (20-students) & Research	
Computer Systems Technology Lab (2 @ 24-students each)	
Digital Media Technology Lab (20 students)	
Flex Research Lab	
Material Engineering Technology Lab (20-students) & Extraction Lab	
Mechanical Engineering Technology Labs (2 @ 20-students each)	
Mechanical Engineering Technology Computer Lab (24-seats)	
Robotics & Automation Lab	
TOTAL NSF	33,509
Building Efficiency Ratio (60%)	
ESTIMATED TOTAL GSF	55,848

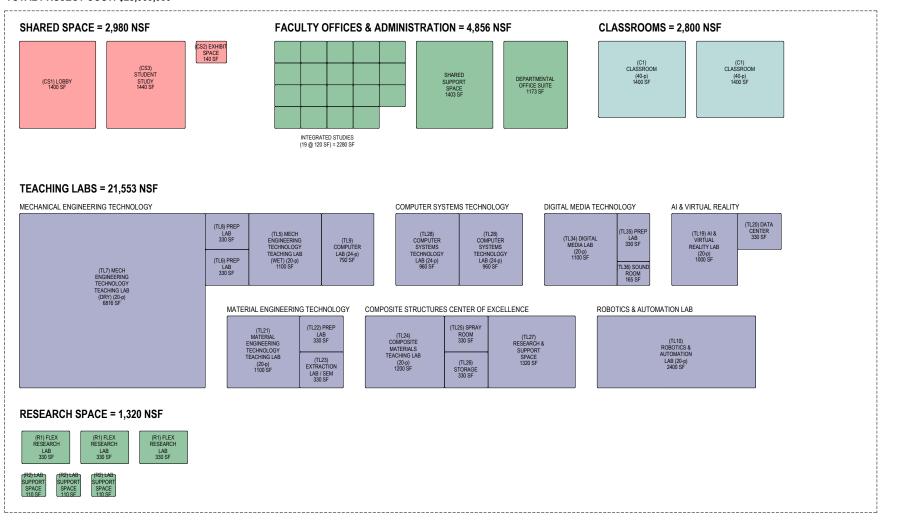
New Academic Center Space Program Sur	nmary - Phase 2	
PUBLIC SPACE		360
Student Study		
FACULTY OFFICES & ADMINISTRATION		5,603
Shared Support		
(26) Faculty Offices		
(12) Future Faculty		
GENERAL PURPOSE CLASSROOMS		10,500
(6) @ 40-seat Classroom		
(1) @ 60-seat Classroom		
TEACHING / RESEARCH LABS & SUPPORT		9,120
Chemistry Lab (24-students)		
Electrical Engineering Technology Lab (20-students)		
Physics Lab (24-students)		
Unmanned Aircraft Systems (UAS) Lab (20-students)		
	TOTAL NSF	25,583
	Building Efficiency Ratio (60%)	
	ESTIMATED TOTAL GSF	42,638

UAS Applied Aviation Research Institute (AARC) (14,435 NSF) is not included above

ACADEMIC CENTER - PHASE 1

TOTAL NSF: 33,600 NSF TOTAL GSF: 56,000 GSF

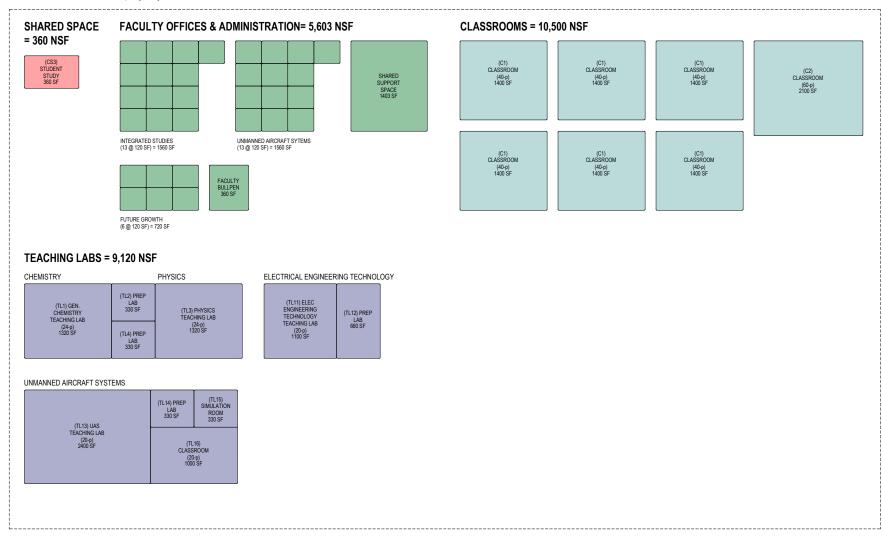
CONSTRUCTION COST: \$21,000,000 TOTAL PROJECT COST: \$28,000,000



ACADEMIC CENTER - PHASE 2

TOTAL NSF: 25,600 NSF TOTAL GSF: 43,000 GSF

CONSTRUCTION COST: \$15,600,000 TOTAL PROJECT COST: \$20,700,000



AVIATION MAINTENANCE (AVM) PROGRAM (FUTURE RELOCATION)

The Aviation Maintenance space program totals \sim 30,000 NSF / \sim 37,100 GSF.

Construction of a new AVM Building will accommodate enrollment growth in the AVM program and allow Building #4 to be dedicated to flight program operations. The AVM facility requires direct access to the airport ramp for aircraft movement.

Aviation Maintenance (AVM) Space Program Summary FACULTY & PROGRAM OFFICES	720
Faculty Offices	720
Engineering Technician	
POWER PLANT OVERHAUL LAB	2,395
Power Plant Overhaul Teaching Lab (25-students)	
Class Lab Service Space - Sandblast, Storage, Battery Storage	
Lab Prep / Storage	
AIRCRAFT MAINTENANCE HANGAR	25,652
Aviation Hangar / Class Lab	
Collaboration Zone	
Sheet Metal Work Zone	
Electrical Work Zone	
Welding Lab	
Class Lab Service	
Tool Crib	
Training Aids / Landing Gear Storage	
Run Stands Storage	
Consumable Storage	
STUDENT STUDY	900
Student Study Space	
TOTAL NSF	29,667
Building Efficiency Ratio (80%)	
ESTIMATED TOTAL GSF	37,084

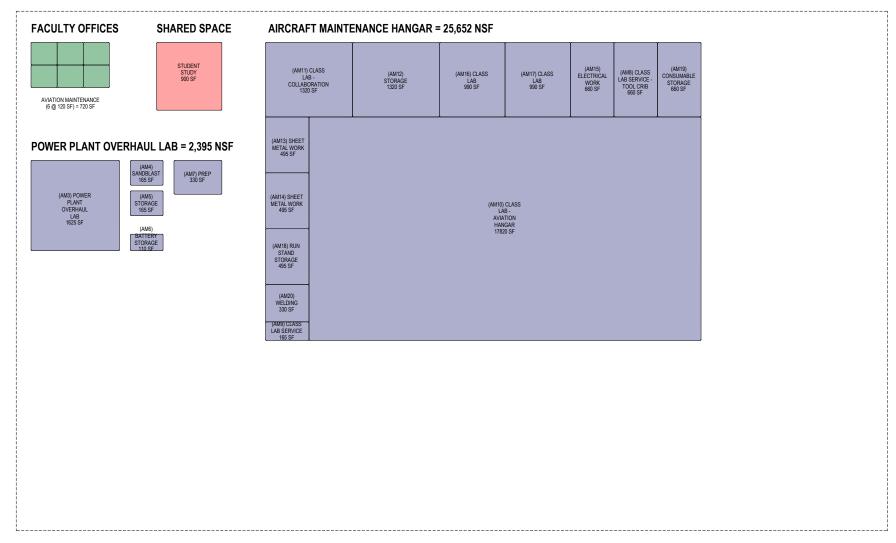
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SECTION 3≻ SPACE NEEDS ASSESSMENT

AVIATION MAINTENANCE

TOTAL NSF: 29,667 NSF TOTAL GSF: 37,083 GSF

CONSTRUCTION COST: \$12,500,000



TECHNOLOGY CENTER AND TECHNOLOGY CENTER WEST BACKFILL

Relocation of existing undersized instructional labs, classrooms and offices from Technology Center and Technology Center West to new rightsized spaces in the Academic Center will free up approximately 30,000 NSF of existing space. This space will be repurposed for the relocation of student service and auxiliary services currently located in aging campus buildings which will be demolished.

The Technology Center and Technology Center West space program totals 38,152 NSF, which is just under the estimated total net assignable space in the complex (39,144 NSF).

Technology Center / Technology Center West Backfill Space	
Program Summary	
LIBRARY & MEDIA SERVICES	9,490
Library	
Writing Center	
STUDENT SERVICES	7,006
Peer Tutoring Center	
Student Support Services	
Upward Bound Program	
Student Life	
Student Clubs & Organizations	
SOCIAL WORK PROGRAM	1,480
Simulation Teaching Lab	
Staging / Props Room	
Observation Room	
PROFESSIONAL EDUCATION & OUTREACH	7,009
Staff Offices	
Training Reception	
Classroom (30-seat)	
Computer Lab (20-seat)	
Construction Lab (40-person) & Support	
AUXILIARY SERVICES - OPERATIONS	13,167
Campus Facilities Shops	
Campus Facilities Consolidated Storage	
Campus Facilities Office	
Campus Sercurity	
Campus Post Office	
Campus Information Technology	
Operations Group Shared Space	
TOTAL NSF	38,152

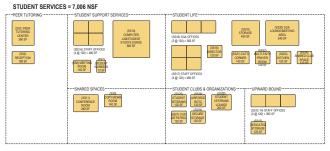
TECHNOLOGY CENTER COMPLEX - EST. NSF AVAILABLE	43,469				
Building Efficiency Ratio (65% assumed)					
TECHNOLOGY CENTER COMPLEX - TOTAL GSF	66,876				

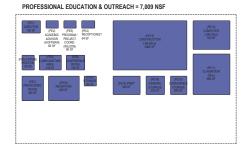
TECHNOLOGY CENTER "BACKFILL"

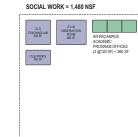
TOTAL: 38,152 NSF

LIBRARY & MEDIA SERVICES = 9,490 NSF

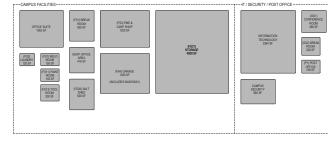
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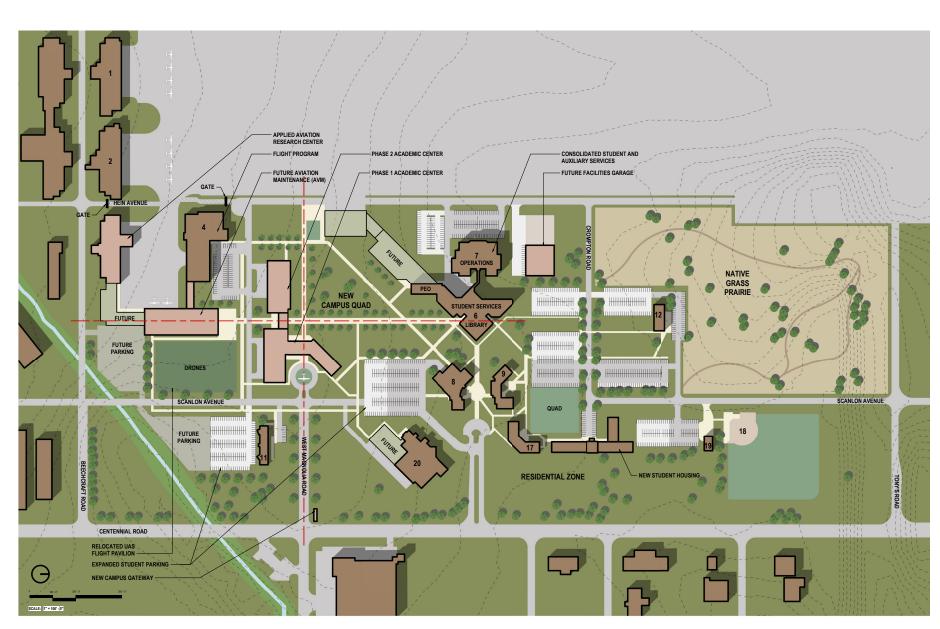




OPERATIONS = 13,167 NSF







K-STATE AEROSPACE AND TECHNOLOGY CAMPUS LOCATION MAP CONCEPT PLAN

NEW ACADEMIC CENTER CONCEPT

CAMPUS SITE CONCEPT PLAN

Placement of the new Academic Center necessitated taking a holistic look at the campus organization. Primary campus planning goals include the integration of proposed buildings with existing structures, and the development of a walkable, pedestrian oriented campus through building placement, green space, hardscape, and parking strategies.

Proposed academic facilities are organized along a pedestrian spine that links three thematic zones: Aviation / UAS programs, new Academic Center, and Technology Center and Technology Center West complex (Student Services, Campus Operations, etc.)

Site planning drivers include:

- Improved campus arrival experience through new campus gateway and new Academic Center with welcoming presence at the termination of Magnolia Road
- Identifiable and pedestrian oriented core at the heart of campus
- New parking lots positioned to minimize private vehicle circulation through the campus and allow phased expansion as student enrollment grows
- UAS Flight Pavilion and future AVM facility have highly visible locations
- AVM facility and future UAS AARC facility (potential for Hangar 724) utilize existing airport ramp access points
- Pedestrian linkages supported by maintained green space

Continued on following page

K-STATE SALINA CAMPUS BUILDINGS

- Aeronautical West Hangar
- 2 Aeronautical East Hangar
- **3** Composite Building (demolished)
- 4 Aviation Center / Stevens Flight Center
- 5 UAS Laboratory (demolished)
- 6 Technology Center
- 7 Technology Center West
- 3 College Center
- Schilling Hall
- Tullis Building (demolished)
- 11 Kuhlman Center (Welcome Center)
- 12 Outreach Center
- 13 Extension Center (demolished)
- Construction Lab (demolished)
- Facilities Maintenance Shops (demolished)
- Facilities Maintenance Offices (demolished)
- 7 Harbin Hall
- 8 Thaemert Park / Sports Field
- 19 Sports Support Facility
- 20 Student Life Center
- 21 UAS Flight Pavilion (relocated)

<u>30</u>

31

- Outer edges of campus (site area adjacent to buildings scheduled for demolition) to be returned to less maintenance intensive more natural prairie / grassland condition
- Building height limited to two-story based on Salina Regional Airport regulations
- Logical phased implementation

ACADEMIC CENTER CONCEPT

The proposed Academic Center will provide a next generation experiential learning environment for integrated studies in aviation and integrated systems engineering and technology to support aviation industry workforce development.

Programs that are currently physically isolated, undersized, or operating in unsatisfactory buildings will be collocated in an interdisciplinary teaching and research environment that will facilitate K-State Salina's ability to diversify and adapt

The new Academic Center is conceptualized to:

curriculum to support current and future needs.

- Collocate instructional labs focused on themes, not disciplines to further the multi-disciplinary nature of aviation and integrated systems engineering and technology education
- Provide rightsized classrooms that support traditional and active learning pedagogies
- Create a new home for K-State Salina students and encourage collaboration by providing interactive spaces for small group and project team meetings
- Provide a central multipurpose space that supports outreach and interaction with industry partners

- Create a welcoming and transparent environment that puts integrated systems and aviation engineering on display
- Provide students with ease of access to faculty
- Connect interior and exterior spaces to energize site and building

PHASED IMPLEMENTATION

The new Academic Center is proposed to be implemented in two phases, with the Phase 1 focused on high impact spaces with emphasis on Integrated Studies teaching and research labs and graduate programs space in direct support of aviation industry workforce development. Phase 2 includes additional instructional labs, classrooms, and additional student study, faculty office, and support spaces.

The Phase 1 project is designed to accomplish the goal of creating a new campus entrance experience. The Phase 2 expansion is illustrated as a direct expansion to the west of Phase 1 with a connecting link that serves as a primary building entrance along the north / south pedestrian mall.

PARKING

Existing campus has 956 parking spaces. The campus concept plan includes 1,400 spaces including "Future" areas.

BUILDING CONCEPT

The Phase 1 Academic Center is envisioned as an iconic two-story building (56,000 GSF) prominently located at the termination of a new campus entry drive from Magnolia Road. The building's contemporary architecture and aerodynamic lines reflect the excitement and future of aviation engineering and technology. A vehicular drop-off and entry plaza on the east provide accessible access and ADA parking at the building's primary entrance.

A second entrance from the west is directly accessible from the new pedestrian mall and provides opportunity for an outdoor patio for student relaxation, study, and special events. The Academic Center's position at the mid-point of the new pedestrian mall allows the building to serve as a "bridge," strengthening the connections between the Technology Center, College Center, Student residence halls to the north, and the existing Aviation Center and a proposed future Aviation Maintenance Facility to the south.

The building's angled geometry responds to the existing campus context, creating a defined campus green space between the new Academic Center and the existing Technology Center to the north with open views to the existing College Center and Student Life Center. The concept includes expansion of the existing parking lot south of the College Center to offset parking spaces lost with the

elimination of the parking lot just west of Scanlan Avenue.

At the heart of the new Academic Center is the "Aviation Innovation Hub," a light-filled two-story atrium envisioned as the College of Technology and Aviation's living room and gathering space for informal student interaction and study. This multipurpose space is sized to support industry partner events and celebrations. A feature stair provides direct connection to teaching and research spaces on the second floor.

The Phase 1 concept's south wing showcases two floors of Integrated Studies teaching and research labs including Robotics and Automation, Mechanical Engineering Technology, and the Composite Structures Center of Excellence. The flexible innovation zone is configured to support teaching environments that simulate settings that students will encounter in industry. The Integrated Studies wing is oriented east / west for ideal solar orientation and daylighting with direct access to an exterior yard for student project work.

The Phase 1 concept's north wing showcases the Integrated Studies Departmental Office along with two 40-seat active learning classrooms on the main level and a quieter high-tech zone for Computer Systems Technology teaching labs on the second floor. Faculty offices and student study space are

integrated along the west on both levels with views to the new pedestrian mall.

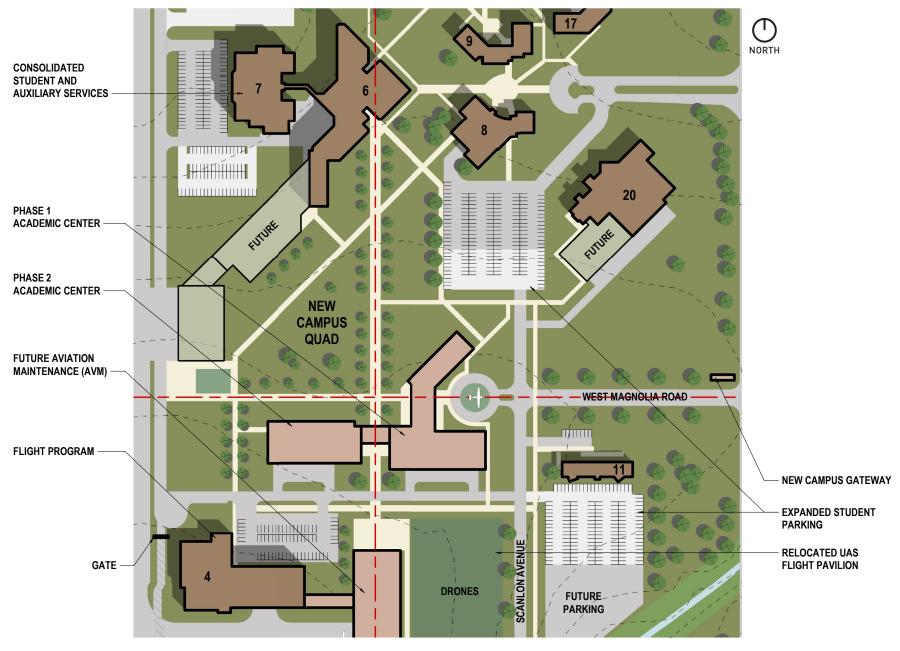
The Phase 1 Academic Center design anticipates a two-level Phase 2 Academic Center expansion (43,000 GSF) with additional instructional teaching labs, rightsized and technology equipped classrooms, student study space, and faculty offices needed to complete the interdisciplinary vision of the Academic Center concept.

SUSTAINABLE DESIGN

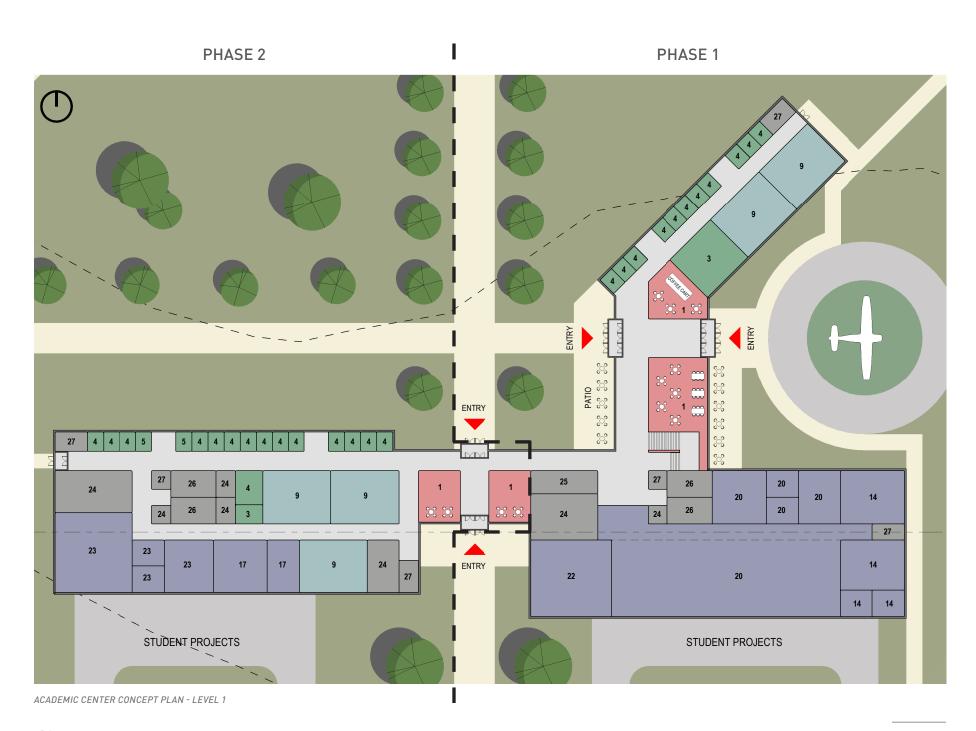
The Academic Center is proposed to be a LEED Silver equivalent facility and incorporate cost-effective building systems, materials, and strategies for reducing embodied energy and life-cycle energy and water consumption including:

- Passive solar design strategies
- Energy efficiency and heat recovery
- Renewable energy systems
- LED lighting
- Sustainable materials and finishes
- Native landscaping
- Stormwater management
- Water conservation features

32 PGAV Archite

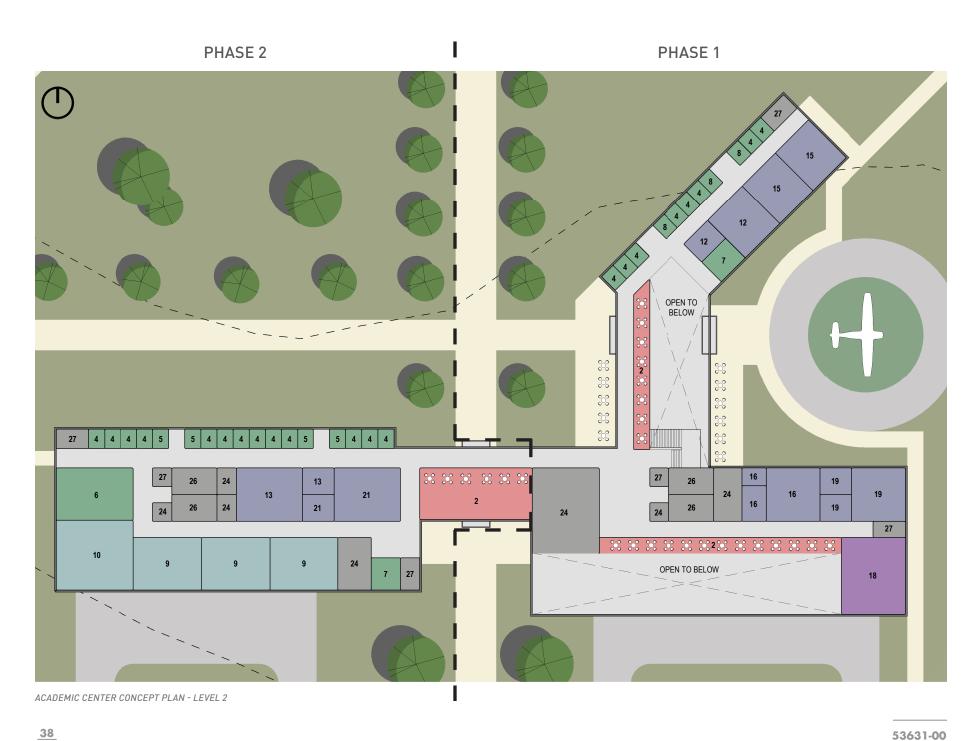


ENLARGED ACADEMIC CENTER CONCEPT SITE PLAN



CONCEPT PLAN LEGEND

1	Building Lobby / Central Space	15	Computer Systems Technology
2	Student Study	16	Digital Media
3	Departmental Office / Shared Support	17	Electrical Engineering
4	Faculty Office	18	Flex Research Lab
5	Future Faculty	19	Material Engineering Technology
6	Large Conference Room	20	Mechanical Engineering
7	Small Conference Room	21	Physics
8	Huddle Room	22	Robotics & Automation
9	40-seat Classroom	23	Unmanned Aircraft Systems (UAS)
10	60-seat Classroom	24	Building Support
11	25-seat Classroom	25	Event Support Space
12	AI & Virtual Reality	26	Restrooms
13	Chemistry	27	Vertical Circulation
14	Composite Structures Center of Excellence		



CONCEPT PLAN LEGEND

1	Building Lobby / Central Space	15	Computer Systems Technology
2	Student Study	16	Digital Media
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11	25-seat Classroom	25	Event Support Space
12	AI & Virtual Reality	26	Restrooms
13	Chemistry	27	Vertical Circulation
14	Composite Structures Center of Excellence		



ACADEMIC CENTER CONCEPT - AERIAL VIEW LOOKING NORTHWEST

40



ACADEMIC CENTER CONCEPT - AERIAL VIEW LOOKING SOUTHWEST



ACADEMIC CENTER CONCEPT - AERIAL VIEW LOOKING SOUTHEAST

42



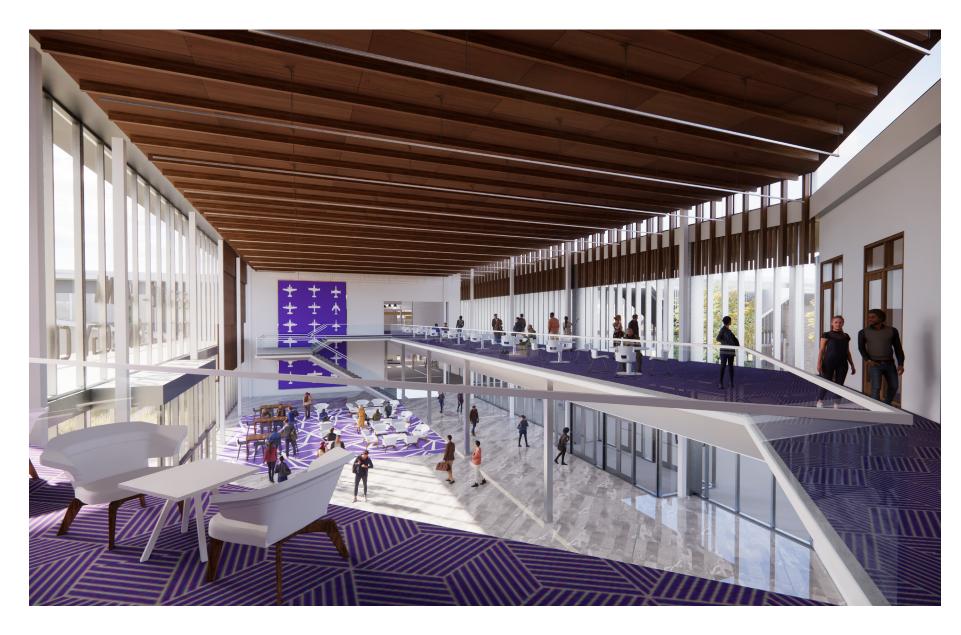
ACADEMIC CENTER CONCEPT - VIEW OF MAIN ENTRANCE FROM MAGNOLIA ROAD



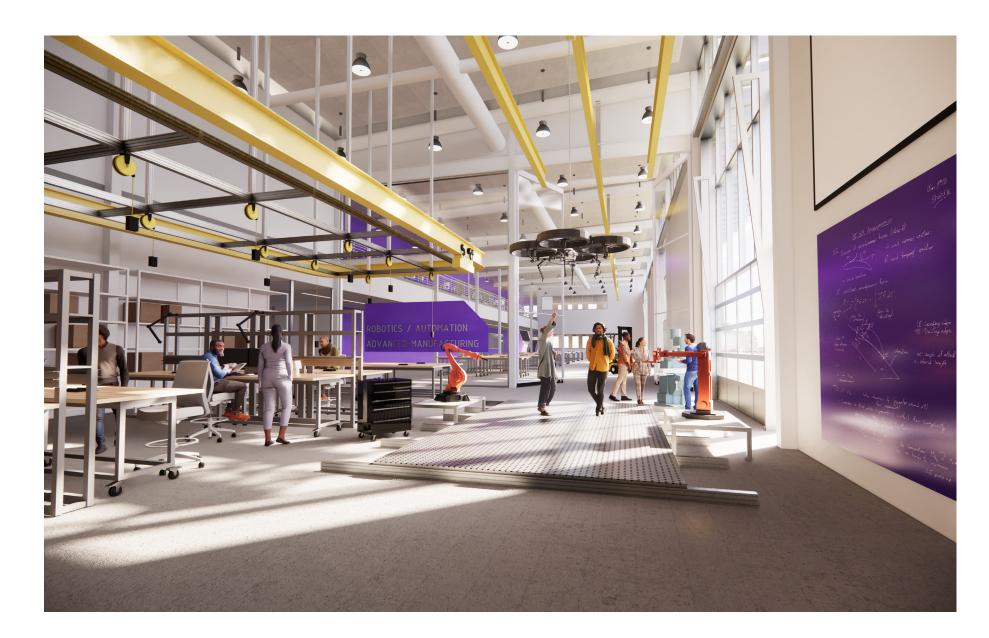
ACADEMIC CENTER CONCEPT - WEST ENTRANCE



ACADEMIC CENTER CONCEPT - VIEW OF NORTH ENTRY FROM PEDESTRIAN MALL







ACADEMIC CENTER CONCEPT - ROBOTICS & AUTOMATION LAB

BUILDING CONSOLIDATION AND BACKFILL STRATEGY

SUMMARY

The following table summarizes the 245,330 GSF of existing academic and support buildings on K-State Salina's campus, and the reduction in GSF of aged building stock after the construction of Phase 1 and 2 of the new Academic Center:

After Phase 1 - 23,197 GSF reduction

After Phase 2 - 49,492 GSF reduction (cumulative)

The calculations are based on implementing the following strategies:

- Backfill of Technology Center and Technology West for Campus Operations, Professional Education and Outreach, Student Services, and the Social Work program
- Conversion of the Outreach Center to leasable space for Central Kansas Extension
- Decommissioning / demolition of (7) aged structures

TECHNOLOGY CENTER COMPLEX BACKFILL

The backfill concept for the Technology Center and Technology Center West buildings is shown in the following pages. In summary:

- Technology Center is dedicated to Academic functions (Social Work), Professional Education and Outreach (PEO), the Library (existing), and Student Services
- Technology Center West is dedicated to the Campus Operations team, which includes Campus Facilities, Campus IT, and Campus Security groups

Backfill plan considerations include:

- PEO is located to facilitate community access and parking
- Social Work program is proximate to PEO based on working relationship

		Academic & Support Facilities	Exist	ing Building	g GSF		ilding GSF - ew Academi nd Phase 2)	nic Center	
Campus Plan #	Univ. Bldg. #	Building Name	On- Campus GSF	Leased Space GSF	Total GSF	Campus GSF aft Phase 1	Following	Campus GSF after Phase 2	Space Following Phase 2
1	703	Aeronautical West Hangar	29,952			29,9	52	29,952	
2	704	Aeronautical East Hangar	28,247			28,2	47	28,247	
3		Composites Building	2,100				0	0	
4		Aviation Center/Stevens Flight Center	39,071			39,0		39,071	
5	708	U.A.S Laboratory	5,537			5,5	37	0	
6		Technology Center	66,876			66,8	76	66,876	
7	. 03	Technology Center West							
8		College Center	25,162			25,1		25,162	
10		Tullis Building	5,774			5,7	74	0	
11		Kuhlman Center (Welcome Center)	6,530			6,5	30	6,530	
12		Outreach Center	5,687				0	0	
13	715	Extension Center (Sci. Center)	9,873				0	0	
14		Construction Lab	5,537				0	0	
15		Facilities Maintenance - Shops	5,537			5,5	37	0	
16		Facilities Maintenance - Offices	9,447			9,4	47	0	
	820	SCE 101 - Off Neeley Road		2,296			2,296	5	2,29
	600	Airport Authority Owned Hangar		10,053			10,053		10,05
	724	Airport Authority Owned Hangar		0					
	•	Total (GSF)	245,330	12,349	257,679	222,1	33	195,838	_
		Buildings Taken Off-line (GSF)				23,1	97	49,492	Cumulati

- 1 Assumes implementation of the Tech Complex Backfill Strategy is completed
- 2 Assumes conversation of Outreach Center to leasable space is completed
- 3 Current leased space is not considered / included in calculations

New Academic Center (NEW GSF)

Net Additional On-Campus GSF

Total On-Campus GSF

4 UAS Flight Pavilion is not included and assumed to be replaced at its current GSF

• Although the Campus Facilities program is accommodated in Technology Center West, a freestanding garage facility is illustrated on the site plan for Campus Facilities' fleet vehicles and equipment storage

49,492 Cumulative

98,693 Cumulative

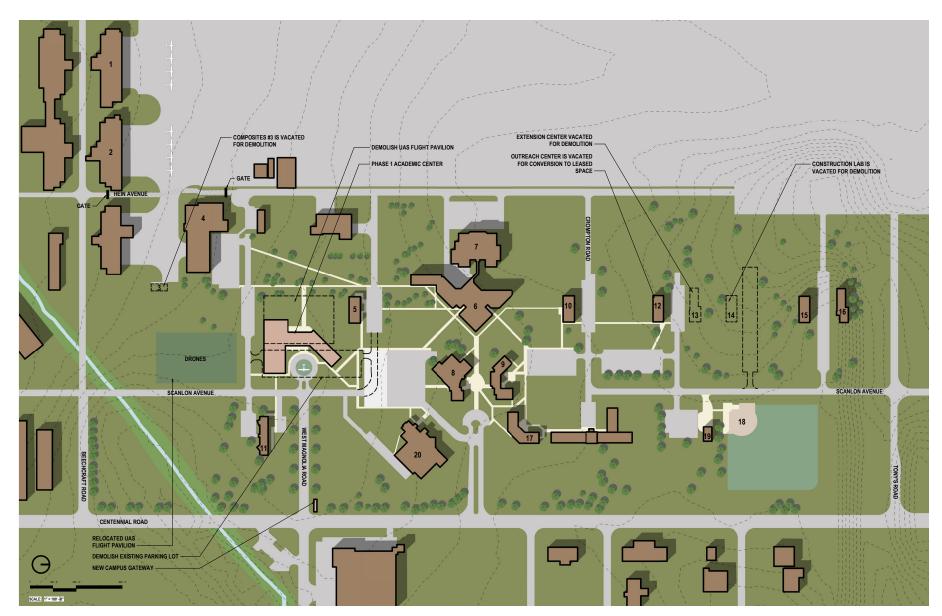
294,531 Cumulative

49,201 Cumulative

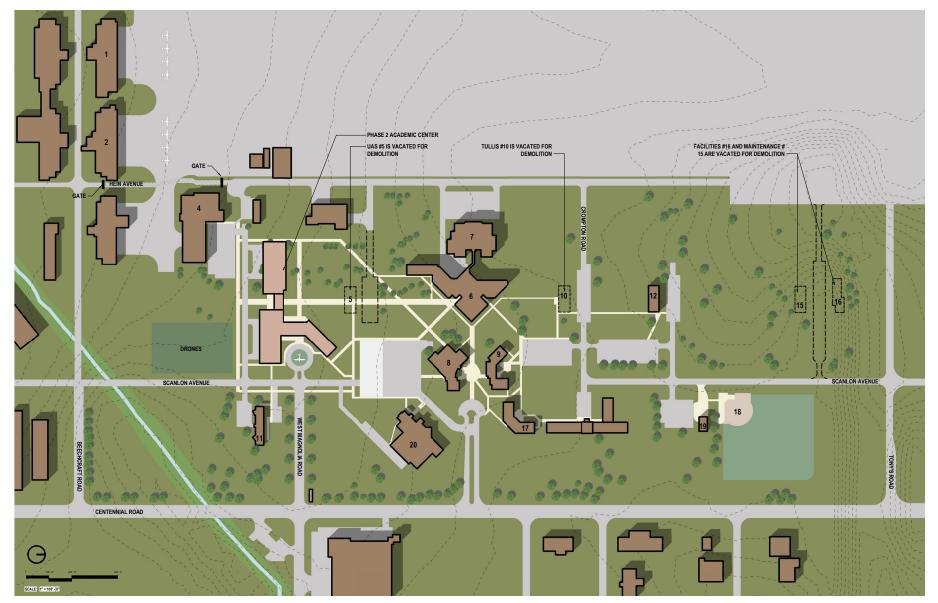
56,055

32,858

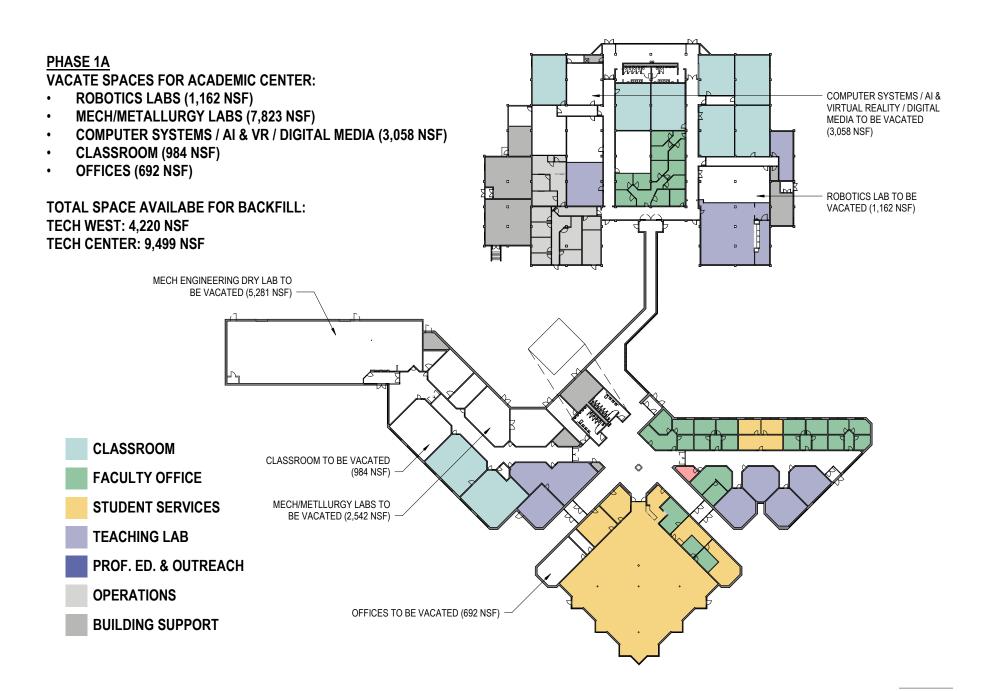
278,188

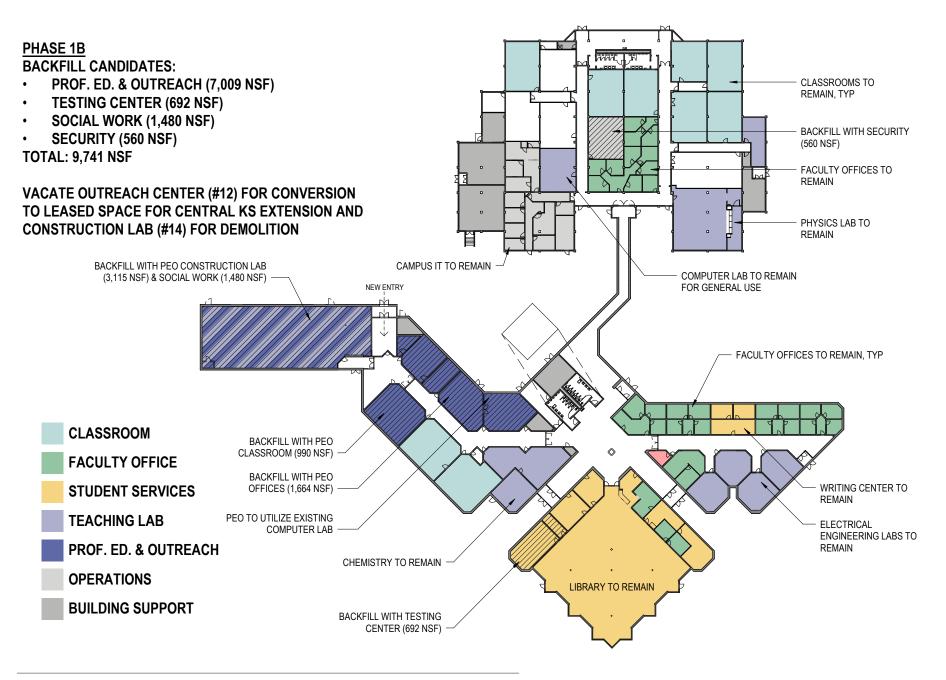


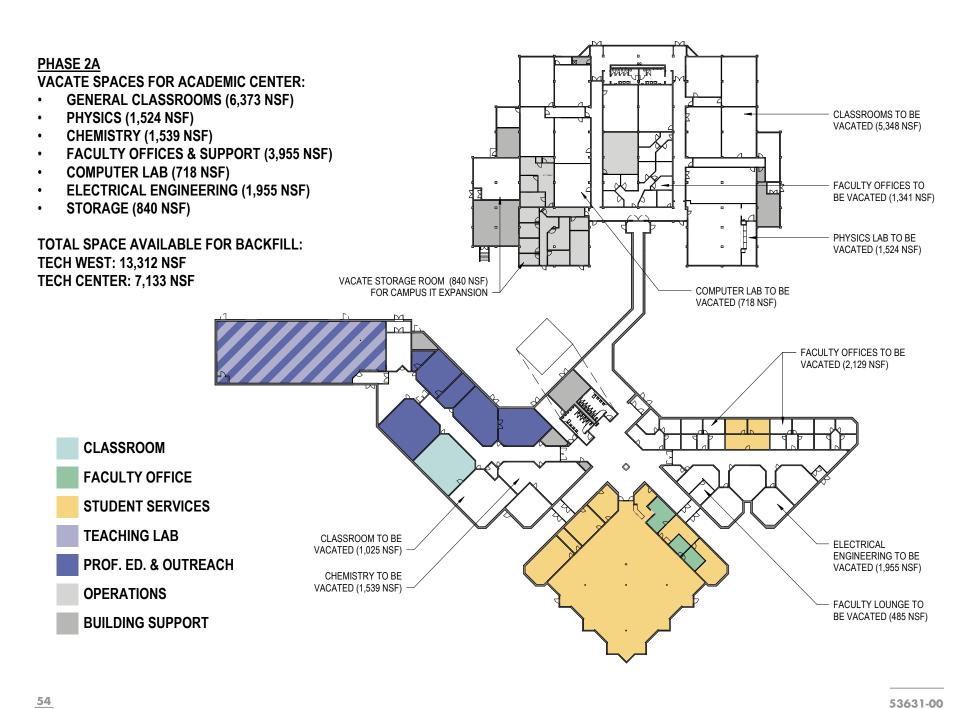
K-STATE AEROSPACE AND TECHNOLOGY PHASE 1 CONCEPT PLAN

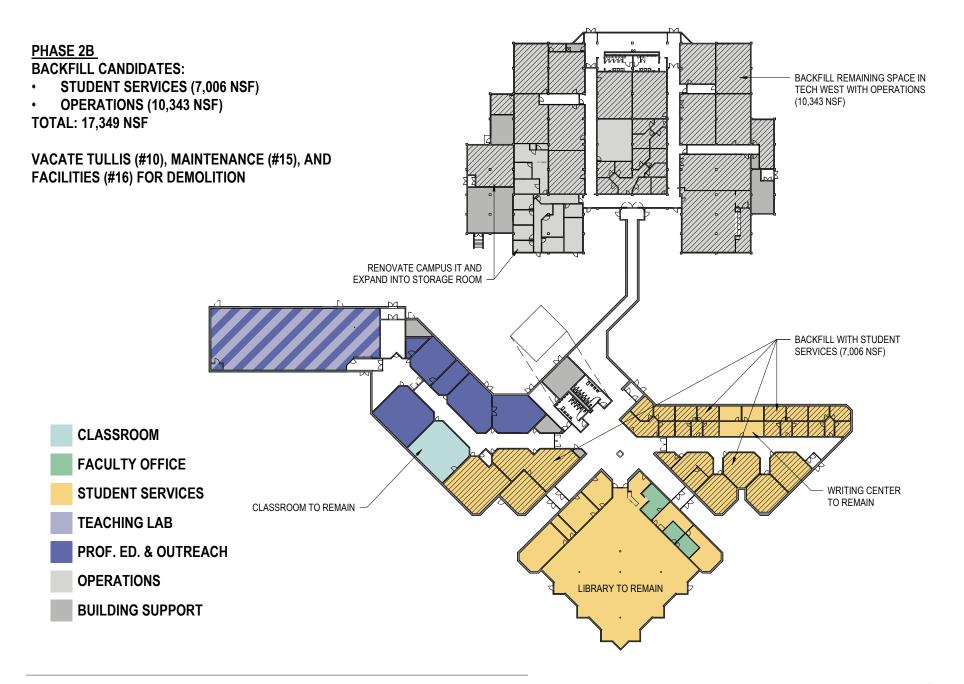


K-STATE AEROSPACE AND TECHNOLOGY CAMPUS PHASE 2 CONCEPT PLAN









COST ESTIMATES

The following high-level conceptual estimates are based on historic cost data for projects of similar construction type, scale, and complexity. The study developed benchmark cost data for multiple projects (see Appendix), and based on this information, a construction cost target of \$358/GSF was established for building and sitework costs.

Estimated costs have been adjusted for inflation and escalated to a mid-point of construction in July 2024. Estimated costs should be escalated for completion time frames beyond July 2024. The following elements are included in estimated construction costs:

- General conditions
- Direct construction costs (labor and material)
- General sitework including allowances for site clearing and prep, earthwork, site utility extensions including sanitary sewer, water, gas, and electrical power, on-site storm water management and site lighting
- General contractor fees
- Design and estimating contingency

Estimated Total Project costs take the estimated construction cost for each phase and apply a percentage (30%) of the Construction Cost as an Owner's Soft Costs allowance. This Soft Costs allowance includes:

- OFPM and K-State Facilities fees
- Design architectural and engineering fees/ commissioning fees
- Site survey / geotechnical investigation services
- KSU Facilities managed in-house construction
- $\bullet \qquad \hbox{Fixtures, furniture and equipment} \\$
- Audio visual equipment and systems
- IT cable and hardware
- Door locks and key card installations / Security systems and devices
- Landscaping
- Owner's construction and project contingency

PHASE 1 | ACADEMIC CENTER

- Site Preparation Includes site clearing, UAS Flight
 Pavilion demolition and relocation / reconstruction, and
 existing Scanlon Ave. parking lot demolition
- New Construction Phase 1 Academic Center, expansion of College Center parking lot, and New Campus Gateway including Magnolia Road Extension and new campus entrance monument sign
- Building Backfill Includes selective Student Services
 & Auxiliary Campus Services renovations in Technology
 Center and Technology Center West following
 completion of the Phase 1 Academic Center

PHASE 2 | ACADEMIC CENTER

- Site Preparation Includes site clearing and demolition of U.A.S Laboratory Building #5
- New Construction Phase 2 Academic Center expansion
- Building Backfill Includes selective Student Services & Auxiliary Campus Services renovations in Technology Center and Technology Center West following completion of the Phase 2 Academic Center expansion

TECHNOLOGY CENTER AND TECHNOLOGY CENTER WEST BACKFILL PROJECTS

K-State Salina envisions funding Student Services and Auxiliary Campus Services renovation backfill projects in part with savings from the reduction in deferred maintenance associated with the existing buildings slated for demolition. In general, construction costs for interior renovation for student services, administrative office and

conferencing type spaces falls in a range of \$150 to \$225 /SF depending on the level of mechanical and electrical systems work involved.

EXISTING BUILDING DEMOLITION

In general, building demolition costs range from \$8-\$10 GSF with additional costs incurred for roadway and parking lot removal, site utility terminations, and restorative seeding/landscaping. The scope of the study did not include the identification of hazardous material or environmental conditions requiring abatement or the costs associated with building / site remediation.

ADDITIONAL PHASES

Additional Phase estimates include:

- Relocation and expansion of the AVM program's teaching laboratory and aircraft hangar facilities currently located in Building #4 to support dedication of the Building #4 Aviation Center to the Flight Program and anticipated enrollment growth in the AVM program.
- Construction of an enclosed and heated Vehicle & Equipment Storage Building in association with relocation of Campus Facilities Operations out of Buildings #15 & #16 (which are scheduled for demolition) to Technology Center West.

Phase 1	NSF	GSF	\$/GSF	Construction Cost	Total Project Cost
Site Preparation					
UAS Flight Pavilion Demo & Relocation		60,000	3	\$180,000	\$234,000
Existing Parking Lot Demolition		51,145	2	\$102,290	\$132,977
New Construction					
Phase 1 Academic Center (Building and Sitework)	33,600	56,000	375	\$21,000,000	\$27,300,000
College Center Parking Lot Expansion (200 spaces)		24,200	38	\$919,600	\$1,195,480
New Campus Gateway-Magnolia Rd. Exten. & Monument Sign		38,100	20	\$762,000	\$990,600
Total Estimated Phase 1				\$22,963,890	\$29,853,057
Building Backfill - Following Phase 1 Academic Center	NSF	SF	\$/SF	Construction Cost	Total Project Cost
Renovation					
Technology Center	9,181	14,125	225	\$3,178,038	\$4,131,450
Technology Center West	560	862	225	\$193,846	\$252,000
Total Estimated Backfill Renovations		·		\$3,371,885	\$4,383,450

Phase 2	NSF	GSF	\$/GSF	Construction Cost	Total Project Cost
Site Preparation					
Site Clearing and Prep (Allowance)				\$100,000	\$130,000
Demolition of Building #5 - U.A.S. Laboratory		5,537	12	\$66,444	\$86,377
New Construction					
Phase 2 Academic Center (Building & Sitework)	25,600	42,000	364	\$15,288,000	\$19,874,400
Total Estimated Phase 2				\$15,454,444	\$20,090,777
Building Backfill - Following Phase 2 Academic Center	NSF	GSF	\$/GSF	Construction Cost	Total Project Cost
Renovation					
Technology Center	7,006	10,778	225	\$2,425,154	\$3,152,700
Technology Center West	10,343	15,912	225	\$3,580,269	\$4,654,350
Total Estimated Backfill Renovations				\$6,005,423	\$7,807,050

Additional Phases	NSF	GSF	\$/GSF	Construction Cost	Total Project Cost
New Aviation Maintenance (AVM) Facility	•				
Site Clearing and Prep (Allowance)				\$100,000	\$130,000
New Aviation Maintenance Facility (Building & Sitework)	29,667	37,084	358	\$13,275,983	\$17,258,777
New Facilities -Vehicle & Equipment Storage Building	2,000	2,500	250	\$625,000	\$812,500
Total Additional Phases				\$14,000,983	\$18,201,277

Existing Building Demolition	NSF	GSF	\$/GSF	Construction Cost	Total Project Cost
Demolition, Utility Disconnects and Site Clearing					
Building #3 - Composites Building		2,100	12	\$25,200	\$32,760
Building #5 - See Phase 2 above					
Building #10 - Tullis Building		5,774	12	\$69,288	\$90,074
Building #13 - Extension Center (Science Center)		9,873	12	\$118,476	\$154,019
Building #14 - Construction Lab		5,537	12	\$66,444	\$86,377
Building #15 - Facilities Maintenance - Shops		5,537	12	\$66,444	\$86,377
Building #16 - Facilities Maintenance - Offices		9,447	12	\$113,364	\$147,373
Total Estimated Building Demolition		38,268		\$459,216	\$596,981

53631-00 PGAV Architects > Kansas State University Aerospace and Technology Campus at Salina

APPENDIX

1► DETAILED SPACE PROGRAM

(62)

2► GENERAL PURPOSE CLASSROOM SUMMARY

69

3► BENCHMARK COST DATA

(71)

4► EXISTING PARKING COUNT

73

5 EXISTING BUILDING PLANS / SPACE USE

75

61

1► DETAILED SPACE PROGRAM

	xisting	Space						New	Academic Ce	enter				
										COMMON SPACE				
Bldg. Bldg. Name Q	uan. Head (Count Existing Rooms	Room No. # Occ.	NSF/Occ. I	NSF/Space T	otal NSF	(Quan. He	Cost ead Count Category	Priority Proposed Spaces Lobby / Central Space	# Occ.	NSF/Occ. I	NSF/Space Total NSF	Notes
							CS1 CS2	1	Office Office	Building Lobby or Central Space Exhibit Space	•		1,400 1,400 140 140 1,540	
							CS3	1	Office	Student Study Space Student Study Seats (10% of Classroom and Class Lab Occupancy)	. 72	25	1,800 1,800	
		Subtotal - Common Space				0							3,340	I
		FACULTY OFFICE & ADMINISTRATION								FACULTY OFFICE & ADMINISTRATION				
Bldg. Bldg. Name Q	uan. Head (Count Existing Rooms Integrated Studies Department - Faculty Offices	Room No. # Occ. 157, 158, 159A-	NSF/Occ. I	NSF /Space T	otal NSF	(Quan. He	ead Count	Proposed Spaces Integrated Studies Department - Faculty Offices	# Occ.	NSF/Occ. I	NSF/Space Total NSF	
7 TECH WEST	8	8 Computer Systems Faculty Offices	C, 161, 162, 164	1	120	960	FA1	15	15 Office	Engineering Technology Faculty Offices	1		120 1,800	
7 TECH WEST 6 TECH	3	3 Electronics Faculty Office 4 Math Faculty Offices	149A-C 103A-D	3	124	372 500	FA2 FA3	15 2	15 Office	AS&B Faculty Offices	1		120 1,800 120 240	
6 TECH 6 TECH	4	4 Math Faculty Offices 4 Business Faculty Offices	103A-D 104A-D	1	125 117	468	FA3	0	2 Office 0 Office	AS&B Part Time Faculty Offices Intercampus Academic Programs - Social Work - SEE BACKFILL	1		120 240 120 0	
6 TECH	3	3 Faculty Office	100B-D	1	135	406	.,,,	-	32	interestings residente i rograms social work see pressure	-	110	3,840	
10 TULLIS	1	1 Office	101		131	131							.,.	
10 TULLIS	1	1 Office	107		316	316				UAS Department - Faculty Offices				
10 TULLIS	1	1 Office	108		207	207	FA5	13	13 Office	UAS Department/AARC Faculty Offices	1	120	120 1,560	
10 TULLIS 10 TULLIS	1	1 Office 1 Faculty Office - Psychology	110 113		105 124	105 124			13				1,560	FACULTY COUNT:
10 101113	•	1 racuity Office - rsychology	113		124_	3,589				Departmental Office				55
						-,	FA6	1	1 Office	Receptionist (Witte)	1	64	64 64	
		Unmanned Aircraft Systems Department					FA7	1	1 Office	Department Head Integrated Studies (Harding)	1	165	165 165	
6 TECH	4	4 Faculty Office - UAS AND MECH	101A-D		125	500	FA8	1	1 Office	Department Head UAS (Carraway)	1		165 165	
5 USA LAB	4	4 Faculty Office	100A-D		121	482	FA9	2	2 Office	Student Workstations	1		36 72	
600 Hanger 600 Hanger	3	3 Office - First Floor 3 Office - Second Floor	105, 106, 118 202, 203, 210	1 147 1 108	440 325	440 325	FA10 FA11	1	Office Office	Lobby / Waiting Area Work / Copy	6	36 220	216 216 220 220	
ouo nanger	•	3 Office - Second Floor	202, 203, 210	1 100	323_	1,747	LMII		5	Est. Internal Suite Circulation (30%)		220	220 220	
		Sociology, Anthropology, and Social Work				-,			-				1,173	
10 TULLIS	1	1 Faculty Office	109		115	115								
10 TULLIS	1	1 Faculty Office	111		134	134	FA18	6	6	Faculty Offices - Future Growth	1		120 720	
							FA19	1	6	Faculty Bullpen (Grad / Adjunct Faculty)	6	60	360 360	
10 TULLIS	1	1 Faculty Office	112		126_	126 375				the state of the s			1,080	
6 TECH	1	Shared Support Space Faculty Work/Copy	109A		340	340	FA12	0	Office	Shared Support Space Faculty Work / Copy / Mail	. 1	140	140 0	
6 TECH	1	Faculty Lounge	109A		145	145	FA13	1	Office	Breakroom / Kitchenette	1		165 165	
		,			_	485	FA14	1	Office	Vending	1		120 120	
							FA15	3	Office	Huddle Rooms	4		120 360	
		44 Faculty / Staff / Student Worker Headcount					FA16	2	Office	Small Conference Room	12		360 720	
							FA17	1	Office	Large Conference Room	48	30	1,440 1,440 2,805	
								_	62	Faculty / Staff / Student Worker Headcount			2,805	
		Subtotal - Faculty Office & Administration				6,196							10,458	
		GENERAL PURPOSE CLASSROOMS								GENERAL PURPOSE CLASSROOMS				
Bldg. Bldg. Name Q		Existing Rooms	Room No. # Occ.		NSF /Space T			Quan.		Proposed Spaces			NSF/Space Total NSF	
6 TECH	1	Classroom		34 30	1,025	1,025	C1	8	Classroom	Classrooms	40		1,400 11,200	
6 TECH 6 TECH	1	Classroom - Most Requested		33 30 33 30	994 984	994 984	C2 C3	1	Classroom	Classrooms	60 25		2,100 2,100 875 0	
7 TECH WEST	1	Classroom		27 30	811	811	CS	U	Classicolli	Classi dollis	23	33	13,300	
7 TECH WEST	1	Classroom		24 31	734	734				All Classrooms are sized for active learning layout - TBD			15,500	
7 TECH WEST	1	Classroom		28 30	827	827								
7 TECH WEST	1	Classroom		22 30	653	653								
7 TECH WEST	1	Classroom		26 30	792	792								
7 TECH WEST	1	Classroom		25 31	778	778								
7 TECH WEST 4 AERON	1	Classroom Classroom		25 30 12 32	754 383	754 383								
4 AERON 4 AERON	1	Classroom		11 32	347	347								
4 AERON	1	Classroom		25 30	743	743								
4 AERON	1	Classroom		24 30	730	730								
4 AERON	1	Classroom		24 31	738	738								
4 AERON	1	Classroom		24 31	743	743	_	9		. د. د د د د د		-		
	16	Est. No. Student Seats based on ~30 SF / Seat Subtotal - General Purpose Classrooms	3	97	г	12,036		9		Est. No. Student Seats	380		13,300	Ţ
		Subtotal - Gelieral Purpose Classi 00ms				12,030	1						13,300	1

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1► DETAILED SPACE PROGRAM

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	TEACHING LABS & LAB SUPPORT SPA	CF					TEACHING LABS & LAB SUPPORT SPACE					
lldg. Bldg. Name Quan.	Lab Count Existing Rooms		NSF/Occ. NSF /Space Total NSF	Qua	an. Lab Cou	int	Proposed Spaces	# Occ. N	SF/Occ. N	SF/Space T	otal NSF	_
	General Chemistry					Lab	Chemistry	_				Integrated Studies Dept
6 TECH 1	1 Gen. Chem Teaching Lab - Recitation	115	1,039 1,039	TL1	1	1	Gen. Chem Teaching Lab	24	55			Computer use; laptops potentially; proximity to Composit Structures Center for Excellence
6 TECH 1	Gen Chem Teaching Lab	115A-B	500 500	TL2	1	Lab	Gen. Chem Prep Lab			330	330	
	Physics		1,539				Physics				1,650	Integrated Studies Dept
						Lab						Close proximity to Model Factory concept; students are
7 TECH WEST 1 7 TECH WEST 1	1 Physics Teaching Lab Physics Lab Prep	139 139B	1,524 1,524 230 230		1	1 Lab	Physics Teaching Lab Physics Prep Lab	24	55	1,320 330	1,320 330	making connections to Flight / AVM programs
7 (EG) WEST 1	Filysics Lab Flep	1336	1,754	154	•	Lau	Filysics Frep Lab			330_	1,650	
	General Biology				_	_	Biology / Geology	- 24			0	Integrated Studies Dept - Elective course
	Taught in classroom with sink(s)				0	0	Bio Teaching Lab Bio Prep Lab	24	55	1,320 330	0	Use multipurpose classroom with (2) sinks
											0	
	Social Work No dedicated lab space currently				0	0	Social Work - See "BACKFILL" Program Below Teaching Lab - Simulate Environments (Home, Courtroom, etc.)	- 4	100	400	0	
	No dedicated lab space currently				0	•	Staging / Props Room	•	100	240	0	
					0		Recording Room			120	0	
					0		Observation Room	16	30	480	0	
	Mechanical Engineering						Mechanical Engineering Technology					
6 TECH 1 6 TECH 1	 Mechanical Engineering Teaching Lab - Fluid Pov Computer Lab - Mech Eng + Other Disciplines 	ver 123 124 24	789 789 32 763 763		1	1 Lab Lab	Mech Engineering Technology Teaching Lab (Wet) Mech Engineering Technology Prep Lab	20	55	1,100 330	1,100 330	
6 IECH 1	Computer Lab - Mech Eng + Other Disciplines	124 24	32 /63 /63	ILb	1	Lab	Mech Engineering Technology Prep Lab			330	330	Includes student project space; projected to be 15 to 20
6 TECH 1	1 Mechanical Engineering Tech Lab	121	5,243 5,243		1	1	Mech Engineering Tech. Teaching Lab (Dry) - Existing Space x 1.3	20	341	6,816	6,816	groups of 2-4 based on 1,200 enrolled
					1	Lab	Mech Engineering Technology Prep Lab Computer Lab	24	33	330 792	330 792	Replaces Computer Lab 124: specialized software
			6,795	123	•	Classicom	Computer Lab	24	33	732_	9,368	Replaces computer Lab 124, specialized software
	Electrical Engineering						Electrical Engineering Technology	_				
												Studio environment - lecture/lab; Hangar type facility; nee to manage acoustics; Overhead doors to move project wo
7 TECH WEST 1	1 Robotics Lab	142	1,162 1,162	TL10	1	1 Lab	Robotics & Automation Teaching Lab	20	120	2,400	2,400	outdoors
6 TECH 1	Electronics Prep Lab	105	496 496	TL11	1	Lab 1	Electrical Engineering Technology Teaching Lab	20	55	1,100	1,100	Basic electronics; equip on workstation and shelf above; students work in pairs
6 TECH 1	1 Classroom	106	487 487		1	Lab	Electrical Engineering Technology Prep Lab	20	33	660	660	Sized to be larger than TECH 105
6 TECH 1	1 Electronics Teaching Lab	107	481 481								4,160	
6 TECH 1	1 Electronics Teaching Lab	108	491 491 3.117									
												Flight Pavilion Proximate; (2) UAS programs: Flight and
	Unmanned Aircraft Systems					Lah	Unmanned Aircraft Systems Program	-				Operations; and Design and Integration Fabrication, Programming UAV Systems, Hardware; studes
												project work; form based fixed wing aircraft - 6' wingspan;
												rack for doz or more; students work as ind and w/ partner
5 UAS LAB 1	1 Class Lab	105	2,383 2,383	TL13	1	1	UAS Teaching Lab	20	120	2,400	2,400	construction course. Plan to be integrated with Applied Aviation Research Center.
5 UAS LAB 1	Storage	106A	263 263		1	Lab	UAS Prep lab / Storage			330	330	Materials move from lab to vehicle
5 UAS LAB 1 5 UAS LAB 1	Storage Simulation Room	104A 107	103 103 226 226	TL15	1	Lab	Simulation Room			330	330	
						Classroom						Existing classroom is underutilized; may or may not be
5 UAS LAB 1	Classroom - Central tables / perimeter compute	s 105A	756 756 3,731	TL16	1		Classroom	20	50	1,000	1,000 4,060	needed depending on location
	Applied Aviation Research Center		3,/31				Applied Aviation Research Center - Research Space				4,000	Runway access for (2-3) Cesna 172 size;
600 Hanger 1	First Floor Leased Space		4,309	TL17	0	Office	Office space (size TBD)	-		9,435	0	Includes student employees
												5,000 SF Hangar space includes 2,000 SF materials storage
600 Hanger 1	Second Floor Leased Space		4,744	TL18	0	Hangar	Hangar Space			5,000	0	and 2,000 SF maint facility support; runway access needed
600 Hanger 1 600 Hanger 1	Hanger Area Classroom (NSF est.) - PEO Non-Credit Courses	221, 223	1,000 600 600								0	
600 Hanger 1	Classroom (NSF est.) - PEO Non-Credit Courses	221, 223	10.653									
			,									Computer Systems Technology; Higher ed computers for
	CMST - AI & Virtual Reality						Al & Virtual Reality	-				data analysis; coord w/ Robotics and Automation Hands-on Studio environment; perimeter computers and
												central tables layout; coord w Robotics and Automation;
7 TECH WEST 1 7 TECH WEST 1	1 CMST Network and AI Lab Data Center (Server Room)	171 171A	730 730 207 207		1	1 Lab Lab	Artifical Intelligence / Virtual Reality Teaching Lab Data Center	20	50	1,000 330	1,000	model factory
7 TECH WEST 1	AR/VR Lab	1/1A 166 23		1120	1	Lab	Data Center			330	1,330	
			1,616									
6 TECH 1	Material Engineering Technology 1 Metalurgy Lab	122	567 567	TL21	1	1 Lab	Material Engineering Technology Material Engineering Technology Teaching Lab	20	55	1,100	1,100	Part of Factory Concept or Research Space?
6 TECH 1	Storage	122B	126 126	TI22	1	Lab	Material Engineering Technology Prep Lab	20	33	330	330	
6 TECH 1	Extraction Lab / SEM	122A	297 297	TI23	1	Lab	Extraction Lab / SEM			330_	330	
	Composite Materials Teaching Lab		990				Composite Structures Center of Excellence				1,760	
						Lab		-				Combine AVM (Bldg #3) and Metalurgy (Bldg #6) - Shared
3 SCB 1 3 SCB 1	 Composite Materials Teaching Lab (Aviation Ma Class Lab Service - Spray Room (Aviation Maint) 		877 877 50 50		1	1 Lab	Composite Materials Teaching Lab Composite Materials Spray Room	20	60	1,200 330	1,200 330	AVM, UAS, Adv. Manuf.
3 SCB 1	Storage	102	92 92		1	Lab	Composite Materials Spray Room Storage			330	330	
	Classroom - MOVE TO ABOVE?	106	583 583		1	Lab	Research and Support Space			1,320	1,320	TBC
3 SCB 1			1,602								3,180	
3 SCB 1	Computer Science		1,002				Computer Systems Technology					
3 SCB 1 7 TECH WEST 1 7 TECH WEST 1	Computer Science Computer Teaching Lab Computer Teaching Lab	163 11 167 11	718 718	TL28	2	Classroom	Computer Systems Technology Computer Systems Technology Teaching Lab	24	40	960	1,920	Computer Systems Technology

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1► DETAILED SPACE PROGRAM

				NE	EW ACADEMIC CENTER, CO	N'T.					
7 TECH WEST 1	Digital Media Technology 1 Digital Media Lab	168	687 <u>687</u>		1 1 Classroom 1 Classroom	Digital Media Technology Digitial Media Technology Lab Distrib Media Deno Job) 55	1,100 330	1,100 330	Ir Sr curriculum; developing content / curating / print and digital media; graphic design; video production; animations; simulations; 3-D Adobe suite software
	13		667	TL31	1 Classroom	Digital Media Prep Lab Sound Room <i>Total Occupan</i>	y 34	<u>-</u>	165	165 1,595	
	Subtotal - Teaching Labs & Lab Support Space		33,966							30,673	
	RESEARCH SPACE					RESEARCH SPACE					
Pldg Name Ouan Hea	ad Count Existing Rooms	Room No. # Occ	NSF/Occ. NSF /Space Total NSF	0	an. Head Count	Proposed Spaces	# 0cc	NSF/Occ. N	E/Space	Total NCE	=
Diag. Name Quan. Hea	au Court Existing Rooms	ROOM NO. # OCC.	NSF/OCC. NSF/Space Total NSF	R1 3	3 Lab	Flex Research Lab	# Occ.	NSF/OCC. N	330 110	990	Faculty and Undergraduate Research
				NZ 3	s tab	Lab Support Space			110		
	Subtotal - Research Space		0			Subtotal - Research Space				1,320	
Bldg. Bldg. Name Quan.	ACADEMIC ADVISING OFFICE Count Existing Rooms	Room No. # Occ	NSF/Occ. NSF /Space Total NSF	Out	an. Head Count	ACADEMIC ADVISING OFFICE Proposed Spaces	#000	NSF/Occ. N	F/Snaco	Total NSF	
	Academic Advising Office					Academic Advising & Student Success	_				PROPOSED TO REMAIN IN UNIVERSITY CENTER
8 COLL CNTR 1 8 COLL CNTR 1	Academic Advising Office Office Service	208 208A	381 381 135 135	AA1 AA2	0 0 Office 0 0 Office	Receptionist / Enrollment Mgmt Assist. (Wills) Academic Advisors (Brisso, Wendel, Underwood)			64 120	0	Serves as Receptionist
8 COLL CNTR 1	TBD			AA3 AA4	0 1 Office 0 0 Office	Academic Advisors (Future) Assistant Registrar (Sanders)			120 120	0	
				AA5	0	Lobby		110	140	0	Waiting area not needed
				AA6	01 Office	Workroom / Copy Est. Internal Suite Circulation (30%	;)		140	0	See Shared Space Category
	Subtotal - Academic Advising		516							0	
	TRAINING CENTER / CONF CENTER FACILITY		510			TRAINING CENTER / CONF CENTER					
Bldg. Bldg. Name Quan.	Count Existing Rooms	Room No. # Occ.	NSF/Occ. NSF /Space Total NSF	Qua	an. Count	Proposed Spaces	# Occ.	NSF/Occ. N	F/Space	Total NSF	_
	Subtotal - Training Center / Conference Center		0							0	
	Total Net Assignable - NEW ACADEMIC CENTER									59 091 N	SF Does not includes AARC
	Total Net Assignable - NEW ACADEMIC CENTER			1			Est. GSF @	60% Building	fficiency		SF Does not include AARC
Fyictin	ng Space			Δ	viation Maintenan	ce Program Relocation					
EXISTI	is space				Viation Maniechan	cc i rogram nelocation					
	EACHITY & DEBT OFFICES					EACHITY & DROCDAM OFFICES					
Bldg. Bldg. Name Quan. Hea		Room No. # Occ.	NSF/Occ. NSF /Space Total NSF	Qua	an. Head Count	FACULTY & PROGRAM OFFICES Proposed	# Occ.	NSF/Occ. N			
4 KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge	201	525 525	AM1 5	5 5 Office	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant)	# Occ. 1	120	120	600	
	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech 4		525 525 0 0		5 5 Office	Proposed				600 120	
4 KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech 4 Subtotal - Faculty & Dept. Offices	201	525 525	AM1 5	5 5 Office 1 1 Office	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson)		120	120	600	
4 KSUS 1 4 KSUS 0	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech 4	201 201A	525 525 0 0 525	AM1 5 AM2 1	5 5 Office 1 1 Office	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed	1 1	120 120	120 120	720	Needs direct access to hangar
4 KSUS 1 4 KSUS 0 Bldg. Bldg. Name Quan. 4 KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech 4 Subtotal - Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms Power Plant Overhaul Lab	201 201A	525 525 0 0 525 1,219 1,219	AM1 5 AM2 1 Qu:	5 5 Office 1 1 Office 6 an. Count 1 Lab	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab		120 120	120 120	720 720	Needs direct access to hangar (30) people total with lab assistants
4 KSUS 1 4 KSUS 0 Bldg. Bldg. Name Quan. 4 KSUS 1 4 KSUS 1 4 KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech 4 Subtotal - Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms Power Plant Overhaul Lab Class Lab Service - Sronge Class Lab Service - Storage	201 201A 150 151 152	525 525 0 0 525 1,219 1,219 113 113 113 113	AM1 5 AM2 1 Qua AM3 1 AM4 1 AM5 1	5 5 Office 1 Office 6 an. Count 1 Lab 1 Lab	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class Lab Service - Standblast Class Lab Service - Storage	1 1	120 120	1,625 165 165	720 720 1,625 165 165	
4 KSUS 1 4 KSUS 0 Bldg. Bldg. Name Quan. 4 KSUS 1 4 KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech 4 Subtotal - Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms Power Plant Overhaul Lab Class Lab Service - Sandblast	201 201A	525 525 0 0 525 1,219 1,219 113 113	AM1 5 AM2 1 Qui AM3 1 AM4 1	5 5 Office 1 1 Office 6 an. Count 1 Lab 1 Lab 1 Lab	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Storage Class Lab Service - Sattroy Storage (needs separation)	1 1	120 120	1,625 165 165	720 720 1,625 165 165 110	(30) people total with lab assistants
4 KSUS 1 4 KSUS 0 Bldg. Bldg. Name Quan. 4 KSUS 1 4 KSUS 1 4 KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech 4 Subtotal - Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms Power Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Storage Class Lab Service - Battery Storage (needs separation)	201 201A 150 151 152	525 525 0 0 525 1,219 1,219 113 113 113 113 94 94	AM1 5 AM2 1 Qu: AM3 1 AM4 1 AM5 1 AM6 1	5 5 Office 1 1 Office 6 an. Count 1 Lab 1 Lab 1 Lab	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class Lab Service - Standblast Class Lab Service - Storage	1 1	120 120	1,625 165 165	1,625 165 165 110 330	
4 KSUS 1 4 KSUS 0 Bldg. Bldg. Name Quan. 4 KSUS 1 4 KSUS 1 4 KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech 5 ubtotal - Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms Oewer Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Service Lister - Battery Storage (needs separation) Subtotal - Power Plant Overhaul Lab	201 201A 150 151 152	525 525 0 0 525 1,219 1,219 113 113 113 113	AM1 5 AM2 1 Qu: AM3 1 AM4 1 AM5 1 AM6 1	5 5 Office 1 1 Office 6 an. Count 1 Lab 1 Lab 1 Lab	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class Lab Service - Sandhlast Class Lab Service - Storage Class Lab Service - Battery Storage (needs separation) Lab Prep / Storage	1 1	120 120	1,625 165 165	720 720 1,625 165 165 110	(30) people total with lab assistants
A KSUS 1 A KSUS 0 Bidg, Bidg, Name Quan. A KSUS 1 Bidg, Bidg, Bidg, Name Quan. Bidg, Bidg, Name Quan.	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Med 4 Subtotal - Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms Power Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Storage Class Lab Service - Storage Class Lab Service - Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms	201 201A 150 151 152 153	525 525 0 0 0 525 1,219 1,219 113 113 113 113 94 94 1,539	AM1 5 AM2 1 AM3 1 AM4 1 AM4 1 AM6 1 AM7 1	5 5 Office 1 1 Office 6 an. Count 1 Lab 1 Lab 1 Lab	Proposed Faculy Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class tab Service - Sandblast Class tab Service - Sardblast Class tab Service - Satroge Class tab Service - Sattery Storage (needs separation) Lab Prep / Storage AIRCRAFT MAINTENANCE HANGAR Proposed	1 1	120 120	1,625 165 165 110 330	1,625 165 165 110 330 2,395	(30) people total with lab assistants
4 KSUS 0 Bidg. Bidg. Name Quan. 4 KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech 4 Subtotal - Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms Power Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Sandblast Class Lab Service - Battery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib	201 201A 150 151 152 153	525 525 0 0 0 525 1,219 1,219 113 113 113 113 113 113 113 13 94 94 1,539	AM1 5 AM2 1 AM3 1 AM4 1 AM5 1 AM6 1 AM7 1	5 5 Office 1 1 Office 6 1 Lab 1 Hangar	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Storage Class Lab Service - Storage Class Lab Service - Storage (needs separation) Lab Prep / Storage AIRCRAFT MAINTENANCE HANGAR Proposed Class Lab Service - Tool Crib	1 1	120 120	1,625 165 165 110 330	1,625 165 165 110 330 2,395	(30) people total with lab assistants New - Props and learning tools
4 KSUS 0 Bidg, Bidg, Name Quan. 4 KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech POWER PLANT OVERHAUL LAB Count Existing Rooms Power Plant Overhaul Lab Class Lab Service - Storage Class Lab Service - Storage Class Lab Service - Battery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib Class Lab Service - Cool Crib Class Lab Service - Class Lab - Aviation Hangar	201A 201A 150 151 152 153 154 155 157	525 525 0 0 0 525 1,219 1,219 113 113 113 113 94 94 1,539 449 449 85 85 85 11,381 11,381	AM1 5 AM2 1 Qui AM3 1 AM4 1 AM6 1 AM7 1 Qui AM8 1 AM8 1 AM9 1 AM9 1 AM9 1	S 5 Office 1 1 Office 6 an. Count 1 Lab 1 Hangar 1 Hangar 1 Hangar	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class Lab Service - Sanablast Class Lab Service - Storage AIRCRAFT MAINTENANCE HANGAR Proposed Class Lab Service - Tool Crib Class Lab Service Class Lab Service Class Lab Class Lab Service - Tool Crib Class Lab Service Class Lab Service - Tool Crib Class Lab Service Class Lab Service - Tool Crib Class Lab Service Class Lab Service	1 1	120 120	1,625 165 165 110 330	1,625 165 165 110 330 2,395	(30) people total with lab assistants New - Props and learning tools
Bidg. Bidg. Name Quan. 4 KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Media 4 Subtotal - Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms One Service - Sandblast Class Lab Service - Sandblast Class Lab Service - Santery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib Class Lab Service Class Lab Service Class Lab Service Class Lab Collaboration	201 201A 150 151 152 153 154 155 157 158	525 525 0 0 0 525 1,219 1,219 113 113 113 113 94 94 1,539 449 449 85 85 11,381 11,381 1,125 1,125	AM1 5 AM2 1 AM3 1 AM4 1 AM5 1 AM6 1 AM7 1	5 5 Office 1 1 Office 6 1 Lab	Proposed Faculy Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class tab Service - Sandblast Class tab Service - Storage Class tab Service - Storage Class tab Service - Battery Storage (needs separation) Lab Prep / Storage AIRCRAFT MAINTENANCE HANGAR Proposed Class tab Service - Tool Crib Class tab Service Class tab Service Class tab Coolidoration Class tab Service Class tab Coolidoration	2:	120 120	1,625 165 165 110 330 660 165 17,072 1,320	1,625 165 165 110 330 2,395	(30) people total with lab assistants New - Props and learning tools
Bidg. Bidg. Name Quan. 4 KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Med 4 (3) Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms Owner Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Storage Class Lab Service - Battery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib Class Lab Service Class Lab - Avisition Hangar Class Lab - Collaboration Storage for Training Aids / Landing Gear Sheet Metal Work	201 201A 150 151 152 153 155 157 158 159 160	1,219 1,219 113 113 113 113 114 113 115 113 115 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 117 117	AM1 5 AM2 1 Quu AM3 1 AM4 1 AM5 1 AM6 1 AM7 1 AM1 1 AM11 1 AM11 1 AM11 1 AM12 1	5 5 Office 1 1 Office 6 1 Lab	Proposed Faculy Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class tab Service - Sandblast Class tab Service - Storage AIRCRAFT MAINTENANCE HANGAR Proposed Class tab Service - Tool Crib Class tab Service Tool Crib Class tab Service Class tab - Awlation Hangar - Existing Space x 1.5 Class tab - Collaboration Storage for Training Alds / Landing Gear Sheet Metal Work	2:	120 120	1,625 165 165 110 330 660 165 17,072 1,320 495	1,625 165 110 330 2,395 660 165 17,072 1,320 495	(30) people total with lab assistants New - Props and learning tools
A KSUS 1 A KSUS 0 Bidg, Name Quan. A KSUS 1 A	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech POWER PLANT OVERHAUL LAB Count Existing Rooms Power Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Sandblast Class Lab Service - Battery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab Cervice - Tool Crib Class Lab Cervice - Tool Crib Class Lab Collaboration Storage for Training Ads / Landing Gear Sheet Metal Work Sheet Metal Work Sheet Metal Work	201A 201A 150 151 152 153 154 155 157 158 159 160 161	525 525 0 0 0 525 1,219 1,219 113 113 113 113 113 113 94 94 55 11,539 449 449 85 85 11,381 11,381 1,125 1,125 1,125 1,125 1,125 1,125 383 383	AM1 5 AM2 1 Qui AM3 1 AM4 1 AM5 1 AM6 1 AM7 1 AM7 1 AM8 1 AM9 1 AM10 1 AM11 1 AM11 1 AM11 1 AM12 1 AM13 1 AM13 1 AM14 1	S 5 Office 1 1 Office 6 an. Count 1 tab	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Storage Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab Service Class Lab Service - Tool Crib Class Lab Service Storage for Training Adds / Landning Gear Sheet Metal Work Sheet Metal Work Sheet Metal Work	2:	120 120	1,625 165 165 110 330 660 165 17,072 1,320 495	1,625 165 165 165 110 330 2,395 660 165 17,072 1,320 495	(30) people total with lab assistants New - Props and learning tools
A KSUS 1 A KSUS 0 Bldg, Name Quan. A KSUS 1 A	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Med 4 (3) Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms One Service - Sandblast Class Lab Service - Storage Class Lab Service - Storage Class Lab Service - Battery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib Class Lab Service Cla	201A 201A 150 151 152 153 154 155 157 158 159 160 161 162 163	525 525 0 0 0	AM1 5 AM2 1 Qui AM3 1 AM4 1 AM5 1 AM6 1 AM7 1 AM8 1 AM9 1 AM1 1 AM10 1 AM11 1 AM11 1 AM12 1 AM14 1 AM14 1 AM15 1 AM15 1 AM15 1 AM15 1 AM15 1 AM15 1 AM16 1	S 5 Office 1 1 Office 6 1 1 Office an. Count 1 Lab 1 Lab 1 Lab 1 Lab 1 Lab 1 Hangar	Proposed Faculy Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class tab Service - Sandblast Class tab Service - Storage AIRCRAFT MAINTENANCE HANGAR Proposed Class tab Service - Tool Crib Class tab Service Tool Crib Class tab Service Class tab - Awlation Hangar - Existing Space x 1.5 Class tab - Collaboration Storage for Training Alds / Landing Gear Sheet Metal Work	2:	120 120	1,625 165 165 110 330 660 165 17,072 1,320 495 660 990	600 120 720 1,625 165 110 330 2,395 660 165 17,072 1,320 495 495 660	(30) people total with lab assistants New - Props and learning tools
Bidg. Bidg. Name Quan. 4 KSUS 0 Bidg. Bidg. Name Quan. 4 KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Med 4 (3) Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms One Service - Sandblast Class Lab Service - Storage Class Lab Service - Storage Class Lab Service - Sattery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib Class Lab Service Class Lab Service Class Lab Service Service Class Lab Collaboration Storage for Training Aids / Landing Gear Sheet Metal Work Electrical Work Class Lab Class Lab	201A 201A 150 151 152 153 154 155 157 158 159 160 161 162 163 164	525 525 0 0 0 0 525 0 0 0 0 0 0 0 0 0 0	AM1 5 AM2 1 Qui AM3 1 AM4 1 AM6 1 AM6 1 AM7 1 AM1 1 AM1 1 AM1 1 AM1 1 AM1 1 AM1 1 AM1 1 AM1 1 AM1 1 AM1 1 AM1 1 AM1 1 AM1 1 AM1 AM1 1 AM1 AM1 AM1 AM1 1	5 5 Office 1 1 Office 6 1 1 Office 6 1 Lab 1 La	Proposed Faculy Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Sortoage Class Lab Service - Sortoage Class Lab Service - Sattery Storage (needs separation) Lab Prep / Storage AIRCRAFT MAINTENANCE HANGAR Proposed Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab Service Class Lab - Aviation Hangar - Existing Space x 1.5 Class Lab - Collaboration Storage for Training Alds / Landing Gear Sheet Metal Work Sheet Metal Work Class Lab Cla	2:	120 120	1,625 165 165 110 330 660 165 17,072 1,320 495 660 990	1,625 165 165 165 110 330 2,395 660 165 17,072 1,320 495 495 660 990	(30) people total with lab assistants New - Props and learning tools
A KSUS 1 A KSUS 0 Bldg, Name Quan. A KSUS 1 A	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech POWER PLANT OVERHAUL LAB Count Existing Rooms Ower Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Sandblast Class Lab Service - Battery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab Service - Sandblast Class Lab Service - Sandblast Class Lab Service - Sandblast Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab Collaboration Storage for Training Ads / Landing Gear Sheet Metal Work Electrical Work Class Lab Class Lab	201A 201A 150 151 152 153 154 155 157 158 159 160 161 162 163	525 525 0 0 0	AM1 5 AM2 1 AM3 1 AM4 1 AM5 1 AM6 1 AM7 1 AM8 1 AM9 1 AM10 1 AM11 1 AM13 1 AM14 1 AM15 1 AM15 1 AM15 1 AM15 1 AM15 1 AM16 1 AM17 1	5 5 Office 1 Office 6 In Office 6 In Office an. Count 1 Lab 1 La	Proposed Faculy Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class tab Service - Sandblast Class tab Service - Sortorage Class tab Service - Storage Class tab Service - Storage (needs separation) Lab Prep / Storage AIRCRAFT MAINTENANCE HANGAR Proposed Class tab Service - Tool Crib Class tab Service Tool Crib Class tab Service Tool Crib Class tab Service Class tab - Collaboration Storage for Training Alas / Landing Gear Sheet Metal Work Sheet Metal Work Class tab - Consumable Storage	2:	120 120	1,625 165 165 165 110 165 17,072 1,320 495 660 990 990 495	600 120 1,625 165 165 110 330 2,395 660 17,072 1,320 1,320 1,320 495 495 660 990 990 495 660	(30) people total with lab assistants New - Props and learning tools
A KSUS 1 A KSUS 0 Bldg, Name Quan. A KSUS 1 A	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech POWER PLANT OVERHAUL LAB Count Existing Rooms Opower Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Sandblast Class Lab Service - Battery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab - Aviation Hangar Class Lab - Aviation Hangar Class Lab - Aviation Hangar Class Lab - Service Sheet Metal Work Sheet Metal Work Electrical Work Class Lab - Class Lab Class Lab - Run Stands Storage	201A 201A 150 151 152 153 154 155 157 158 159 160 161 162 163 164 165	525 525 0 0 0 0	AM1 5 AM2 1 Qui AM3 1 AM4 1 AM6 1 AM7 1 AM8 1 AM9 1 AM9 1 AM1 1 AM10 1 AM11 1 AM11 1 AM11 1 AM11 1 AM14 1 AM15 1 AM15 1 AM16 1 AM17 1 AM16 1 AM17 1 AM17 1 AM18 1	5 5 Office 1 Office 6 In Office 6 In Office an. Count 1 Lab 1 La	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class Lab Service - Sandhast Class Lab Service - Storage Class Lab Service - Storage Class Lab Service - Battery Storage (needs separation) Lab Prep / Storage Class Lab Service - Tool Crib Class Lab Service Storage for Training Adds / Landing Gear Sheet Metal Work Sheet Metal Work Electrical Work Class Lab Cl	2:	120 120	1,625 165 165 110 330 660 165 17,072 1,320 495 660 990 990	600 120 1,625 165 165 110 330 2,395 660 17,072 1,320 1,320 1,320 495 495 660 990 990 495 660	(30) people total with lab assistants New - Props and learning tools Ramp access
A KSUS 1 A KSUS 0 Bldg, Name Quan. A KSUS 1 A	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech POWER PLANT OVERHAUL LAB Count Existing Rooms Opower Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Sandblast Class Lab Service - Battery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab - Aviation Hangar Class Lab - Aviation Hangar Class Lab - Aviation Hangar Class Lab - Service Sheet Metal Work Sheet Metal Work Electrical Work Class Lab - Class Lab Class Lab - Run Stands Storage	201A 201A 150 151 152 153 154 155 157 158 159 160 161 162 163 164 165	525 525 0 0 0 0	AM1 5 AM2 1 AM3 1 AM4 1 AM5 1 AM6 1 AM7 1 AM8 1 AM9 1 AM10 1 AM11 1 AM13 1 AM14 1 AM15 1 AM15 1 AM15 1 AM15 1 AM15 1 AM16 1 AM17 1	5 5 Office 1 Office 6 In Office 6 In Office an. Count 1 Lab 1 La	Proposed Faculy Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class tab Service - Sandblast Class tab Service - Sortorage Class tab Service - Storage Class tab Service - Storage (needs separation) Lab Prep / Storage AIRCRAFT MAINTENANCE HANGAR Proposed Class tab Service - Tool Crib Class tab Service Tool Crib Class tab Service Tool Crib Class tab Service Class tab - Collaboration Storage for Training Alas / Landing Gear Sheet Metal Work Sheet Metal Work Class tab - Consumable Storage	2:	120 120	1,625 165 165 165 110 165 17,072 1,320 495 660 990 990 495	600 120 1,625 165 165 110 330 2,395 660 17,072 1,320 1,320 1,320 495 495 660 990 990 495 660	(30) people total with lab assistants New - Props and learning tools
A KSUS 1	4 (3) Faculty + Director - Formerly Lounge Mech POWER PLANT OVERHAUL LAB Count Estisting Rooms Opower Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Sandblast Class Lab Service - Santeny Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Estisting Rooms Class Lab Service - Tool Crib Class Lab Crib Lab Crib Lab Crib Lab Crib Lab Class Lab Crib Lab Class Lab - Consumable Storage Class Lab - Consumable Storage Subtotal - Aircraft Maintenance Hanger STUDENT STUDY SPACE	201A 201A 150 151 152 153 154 155 157 158 159 160 161 162 163 164 165	1,219 1,219 113 113 113 113 113 113 113 113 114 115 117 118 118 118 118 118 11,18 11	AM1 5 AM2 1 Qui AM3 1 AM4 1 AM5 1 AM6 1 AM7 1 AM10 1 AM11 1 AM11 1 AM12 1 AM14 1 AM15 1 AM16 1 AM17 1 AM17 1 AM19 1 AM19 1 AM19 1 AM19 1 AM19 1	S 5 Office 1 1 Office 6 1 1 Office 6 an. Count 1 Lab 1 Lab 1 Lab 1 Lab 1 Lab 1 Hangar	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class tab Service - Sandhast Class tab Service - Sandhast Class tab Service - Storage Class Lab Service - Battery Storage (needs separation) Lab Prep / Storage Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab Service Class Lab Service Class Lab Service Storage for Training Aids / Landing Gear Sheet Metal Work Sheet Metal Work Electrical Work Class Lab Class L	2:	120 120	1,625 165 165 165 110 165 17,072 1,320 495 660 990 990 495	600 1200 7200 1,625 165 1100 330 2,395 660 165 17,072 1,320 495 495 660 990 990 495 660 990	(30) people total with lab assistants New - Props and learning tools Ramp access
A KSUS 1 A KSUS 0 Bidg, Name Quan. A KSUS 1 A	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech 4 Subtotal - Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms Power Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Sandblast Class Lab Service - Battery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib Class Lab Service Class Lab Service Class Lab Service Class Lab - Avaitation Hangar Class Lab - Service Class Lab - Avaitation Storage Class Lab - Sun Stands Storage Class Lab - Consumable Storage Class Lab - Consumable Storage Subtotal - Aircraft Maintenance Hanger	201A 201A 150 151 152 153 154 155 157 158 159 160 161 162 163 164 165	1,219 1,219 113 113 113 113 113 113 113 113 114 115 117 118 118 118 118 118 11,18 11	AM1 5 AM2 1 Qui AM3 1 AM4 1 AM5 1 AM6 1 AM7 1 AM10 1 AM11 1 AM11 1 AM12 1 AM14 1 AM15 1 AM16 1 AM17 1 AM17 1 AM19 1 AM19 1 AM19 1 AM19 1 AM19 1	5 5 Office 1 Office 6 In Office 6 In Office an. Count 1 Lab 1 La	Proposed Faculy Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class tab Service - Sandblast Class tab Service - Sandblast Class tab Service - Storage Class tab Service - Sattery Storage (needs separation) Lab Prep / Storage AIRCRAFT MAINTENANCE HANGAR Proposed Class tab Service - Tool Crib Class tab Service - Tool Crib Class tab Service Class tab - Collaboration Storage for Training Alds / Landing Gear Sheet Metal Work Sheet Metal Work Class tab Class tab - Consumable Storage Class tab - Consumable Storage Welding Noted access to shared classroom space in direct proximity STUDENT STUDY SPACE Proposed	2:	120 120	1,625 165 165 165 110 165 17,072 1,320 495 660 990 990 495	600 1200 7200 1,625 165 1100 330 2,395 660 165 17,072 1,320 495 495 660 990 990 495 660 990	(30) people total with lab assistants New - Props and learning tools Ramp access
A KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech Ach Subtotal - Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms Oewer Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Storage Class Lab Service - Sattery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib Class Lab Service Class Lab Service Class Lab Service Class Lab - Avisition Hangar Class Lab - Collaboration Storage for Training Aids / Landing Gear Sheet Metal Work Sheet Metal Work Class Lab Count Existing Rooms	201A 201A 150 151 152 153 154 155 157 158 159 160 161 162 163 164 165	525 525 0 0 0 525 1,219 1,219 113 113 113 113 113 113 114 115 113 115 113 115 113 116 115 1,25 1,155 1,125 1	AM1 5 Qu AM2 1 AM3 1 AM4 1 AM3 1 AM5 1 AM6 1 AM7 1 AM6 1 AM7 1 AM10 1 AM10 1 AM11 1 AM12 1 AM12 1 AM13 1 AM14 1 AM14 1 AM14 1 AM14 1 AM14 1 AM15 1 AM15 1 AM16 1 AM17 1 AM18 1 AM	S 5 Office 1 1 Office 6 1 1 Office 6 an. Count 1 Lab 1 Lab 1 Lab 1 Lab 1 Lab 1 Hangar	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class tab Service - Sandhast Class tab Service - Sandhast Class tab Service - Storage Class Lab Service - Battery Storage (needs separation) Lab Prep / Storage Class Lab Service - Tool Crib Class Lab Service - Tool Crib Class Lab Service Class Lab Service Class Lab Service Storage for Training Aids / Landing Gear Sheet Metal Work Sheet Metal Work Electrical Work Class Lab Class L	2:	120 120	1,625 165 165 165 110 165 17,072 1,320 495 660 990 990 495	600 120 720 1,625 165 165 165 165 165 17,072 1,320 1,320 495 495 660 990 990 990 990 330 25,652	(30) people total with lab assistants New - Props and learning tools Ramp access
A KSUS 1	4 (3) Faculty + Director - Formerly Lounge Mech POWER PLANT OVERHAUL LAB Count Estisting Rooms Opower Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Sandblast Class Lab Service - Santeny Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Estisting Rooms Class Lab Service - Tool Crib Class Lab Crib Lab Crib Lab Crib Lab Crib Lab Class Lab Crib Lab Class Lab - Consumable Storage Class Lab - Consumable Storage Subtotal - Aircraft Maintenance Hanger STUDENT STUDY SPACE	201A 201A 150 151 152 153 154 155 157 158 159 160 161 162 163 164 165	1,219 1,219 113 113 113 113 113 113 113 113 114 115 117 118 118 118 118 118 11,18 11	AM1 5 Qu AM3 1 AM3 1 AM4 1 AM5 1 AM6 1 AM7 1 AM6 1 AM7 1 AM10 1 A	s S Office 1 Office 6 an. Count 1 Lab 1 Lab 1 Lab 1 Lab 1 Lab 1 Hangar	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class Lab Service - Sandhast Class Lab Service - Storage Class Lab Service - Tool Crib Class Lab - Aviation Hangar - Existing Space x 1.5 Class Lab - Aviation Hangar - Existing Space x 1.5 Class Lab - Collaboration Storage for Training Aids / Landing Gear Sheet Metal Work Electrical Work Class Lab Class Lab Class Lab Class Lab Class Lab - Consumable Storage Class Lab - Consumable Storage Welding Noted access to shared classroom space in direct proximity STUDENT STUDY SPACE Proposed Student Study Space / Lounge	2:	120 120	1,625 165 165 110 330 660 165 17,072 1,320 495 660 990 990 990 990 990 330	600 120 720 1,625 165 165 165 165 17,072 1,320 495 495 660 990 990 495 660 990 990 495	(30) people total with lab assistants New - Props and learning tools Ramp access
A KSUS 1	ad Count Existing Rooms 4 (3) Faculty + Director - Formerly Lounge Mech Ach Subtotal - Faculty & Dept. Offices POWER PLANT OVERHAUL LAB Count Existing Rooms Oewer Plant Overhaul Lab Class Lab Service - Sandblast Class Lab Service - Storage Class Lab Service - Sattery Storage (needs separation) Subtotal - Power Plant Overhaul Lab AIRCRAFT MAINTENANCE HANGAR Count Existing Rooms Class Lab Service - Tool Crib Class Lab Service Class Lab Service Class Lab Service Class Lab - Avisition Hangar Class Lab - Collaboration Storage for Training Aids / Landing Gear Sheet Metal Work Sheet Metal Work Class Lab Count Existing Rooms	201A 201A 150 151 152 153 154 155 157 158 159 160 161 162 163 164 165 166	525 525 0 0 0 525 1,219 1,219 113 113 113 113 113 113 114 115 113 115 113 115 113 116 115 1,25 1,155 1,125 1	AM1 5 Qu AM3 1 AM3 1 AM4 1 AM5 1 AM6 1 AM7 1 AM6 1 AM7 1 AM10 1 A	s S Office 1 Office 6 an. Count 1 Lab 1 Lab 1 Lab 1 Lab 1 Lab 1 Hangar	Proposed Faculty Offices (Smith, Locklear, Mitchell, Vacant) Engineering Technician (Johnson) POWER PLANT OVERHAUL LAB Proposed Power Plant Overhaul Lab Class Lab Service - Sandhast Class Lab Service - Storage Class Lab Service - Tool Crib Class Lab - Aviation Hangar - Existing Space x 1.5 Class Lab - Aviation Hangar - Existing Space x 1.5 Class Lab - Collaboration Storage for Training Aids / Landing Gear Sheet Metal Work Electrical Work Class Lab Class Lab Class Lab Class Lab Class Lab - Consumable Storage Class Lab - Consumable Storage Welding Noted access to shared classroom space in direct proximity STUDENT STUDY SPACE Proposed Student Study Space / Lounge	2:	120 120	1,625 165 165 165 165 165 17,072 1,320 495 660 990 990 990	600 120 720 1,625 165 165 165 165 165 17,072 1,320 495 660 990 990 995 660 330 25,652	(30) people total with lab assistants New - Props and learning tools Ramp access

1► DETAILED SPACE PROGRAM

SECTION 8► APPENDIX

	Existing	Space				Tech	ı Wes	t and Ted	chnol	ogy Center "Backfill" Renovation Progra	am				
		LIBRARY & MEDIA SERVICES								LIBRARY & MEDIA SERVICES					
ldg. Bldg. Name (Quan. Co	ount Existing Rooms	Room No. # Occ.	NSF/Occ. NSF /Space Total NSF		Quan.	Count			Proposed Spaces	# Occ. N	ISF/Occ. NSI	/Space T	otal NSF	
6 TECH	1	Library Library Stacks	111	6,085 6,085		1		Reno Light	0	Library Library Stacks			6.085	6.085	
6 TECH	1	Processing Room - Mail / Supply	111A	144 144		1		Reno Light	0	Processing Room - Mail / Supply			144	144	
6 TECH	1	Processing Room - Mail / Supply	111B	98 98	L3	1		Reno Light	0	Processing Room - Mail / Supply			98	98	
6 TECH	1	Office	111C	257 257		1		Reno Light	0	Office			257	257	
6 TECH	1	Processing Room - Research Room	111D	281 281		1		Reno Light	0	Processing Room - Research Room			281	281	
6 TECH	1	Office	111E	136 136		1		Reno Light		Office			136	136	
6 TECH	1	Office	111F	115 115		1		Reno Light	0	Office			115	115	
6 TECH	1	Storage	111G	389 389		1		Reno Light		Storage			389	389	
6 TECH	1	Quiet Study Room	112	314 314 385 385		1		Reno Light	0	Quiet Study Room			314	314	
6 TECH 6 TECH	1	Center for Academic Excellence Office	113 113A	385 385 118 118		1		Reno Light		Center for Academic Excellence Office / Testing Procter (Geihsler - PEO)			385 118	385 118	Outreach Center / PEO Backfill
6 TECH	1	Office	113A 113B	574 574		1		1 Reno Light Reno Light		Testing Center (Shift from PEO)			574	574	Outreach Center / PEO Backfill
0 IECII	•	Office	1130	8,896				Kello Light	0	resting Center (Sint Hom PLO)			3/4_	8.896	Outreach Center / FEO Backini
		Writing Center		5,222						Writing Center				-,	
6 TECH	1	Office	102	147 147				Reno Light	0	Office			147	147	
6 TECH	1	Office	102A	147 147				Reno Light	0	Office			147	147	
6 TECH	1	Office (Reception)	102B	300 300		3 1		Reno Light	0	Office (Reception)			300	300	
				594	•									594	
		Subtotal - Library & Media Services		9,490										9,490	<u></u>
		STUDENT SERVICES								STUDENT SERVICES					
lg. Bldg. Name (Quan. Head Co	ount Existing Rooms	Room No. # Occ.	NSF/Occ. NSF /Space Total NSF		Quan. H	Head Cour	nt		Proposed Spaces	# Occ. N	ISF/Occ. NSI	/Space T	otal NSF	_
		Peer Tutoring Center								Peer Tutoring Center					
6 TECH	1	Peer Tutoring Center	TBD	0	SS1 SS2	3 1		Reno Light		Peer Tutoring Center	2	60	120	360	
					332	1		Reno Light		Reception / Lobby Area	,	36	180	180 540	
		Student Support Services								Student Support Services					
10 TULLIS	1	1 Student Support Services Office	103A	116 116	SS3	1		1 Reno Light		Assist. Director (Simpson)	1	120	120	120	
10 TULLIS	1	1 Student Support Services Office	103B	100 100		1		1 Reno Light		Program / Project (Pope)	1	120	120	120	
10 TULLIS	1	Office - Domestic Violence Advocate	103C	101 101		1		1 Reno Light		Office Specialist II (Wilson)	1	120	120	120	
10 TULLIS	1	1 Student Support Services Office	103D	116 116				1 Reno Light		Hoteling Office - Domestic Violence Advocate or Student	1	120	120	120	
10 TULLIS	1	Suite Circulation / Meeting Area	103	269 269		1		2 Reno Light		Student Workers	1	36	36	72	
				702	SS8 SS9	1		Reno Light		Meeting Room (4-p) Copy/Work Room - Shared with other Groups	4	35	140 140	140 140	
					229	1		Reno Light		Est. Internal Suite Circulation (30%)			140	208	Storage, etc.
10 TULLIS	1	Computer Lab / Student Study / Lounge / Circulation	LB101	618 618	SS10	0 1		Reno Light		Computer Lab / Student Study / Lounge	25	36	900	900	(10) Computers currently
10 TULLIS	1	Conference Room (Shared)	104	267 267				Reno Light		Conference Room (8-p) - Shared with Student Services Groups	8	35	280	280	Sim. To Tullis 104
				2,289	7								_	2,220	
		Upward Bound Program								Upward Bound Program					Access to Conf and Classroom - 40-45 students at a t
10 TULLIS	1	1 Director Office	105C	121 121				1 Reno Light		Director (Booker)	1	120	120	120	
10 TULLIS	1	1 Academic Services Coordinator	105B	116 116				1 Reno Light		Academic Services Coordinator (Pohl)	1	120	120	120	
10 TULLIS 10 TULLIS	1	1 Office Specialist Waiting Area	105A 105	108 108 122 122				1 Reno Light Reno Light		Office Specialist (Ellis) Dedicated Storage	1	120 120	120 120	120 120	(8) 3-D printers
10 TULLIS	1	Storage / Service	105D	27 27		, ,		Kello Light		Est. Internal Suite Circulation (30%)	1	120	120	144	(a) 3-D printers
10 10223	-	Storage / Service	1030	494						Est. Internal saite circulation (50%)			-	624	
		Student Life								Student Life					
					SS16	5 1		1 Reno Light		Director (Chamberlin)	1	120	120	120	
					SS17			4 Reno Light		Staff Offices	1	120	120	480	
					SS18	B 3		Reno Light		Student Government (SGA) Offices	1	120	120	360	
					L			Reno Light		Est. Internal Suite Circulation (30%)				288	
					SS19			Reno Light		Storage	1	450	450	450	Renting trailers currently
10 TULLIS	1	Cats Corner Pantry	102	112 112	SS20 SS21			Reno Light Reno Light		SGA Lounge / Meeting Area Cat's Corner Pantry	15	36 140	540 140	540 140	Replaces Tullis 102 - 112 SF
10 TULLIS	1	Cats Corner Pantry	102	112 112	SS21 SS22			Reno Light Reno Light		Cat's Corner Pantry Multi-Faith Prayer Room	1	140	140 120	140	Replaces Fullis 102 - 112 SF
					SS23			Reno Light		Kitchen			120	120	Support mutlicultural celebrations
				112				Reno Light		Shared Student Club Space - TBD			120	120	For additional Active Clubs - 8 to 16
													_	2,738	
		Student Clubs and Organizations								Student Clubs and Orgs Military Affairs Resource Center includes:					Access to outdoor area for drill and/or afterhours ev
					SS25	5 1		Reno Light		Military Affairs Resource Center includes: Student Veterans - Office Space	4	120	120	120	Access to outdoor area for drill and/or afterhours ev Defined, but collocated
					SS25			Reno Light		Airforce ROTC - Office Space	1	120	120	120	Defined, but collocated Defined, but collocated
					SS26			Reno Light		Civil Air Patrol - Office Space	1	120	120	120	Defined, but collocated Defined, but collocated
10 TULLIS	1	Student Veteran's Lounge	106	198 198				Reno Light		Student Veterans Lounge	1	200	200	200	Sim. To Tullis 106
		···· · · · · · · · · · · · · · · · · ·		198				Reno Light		Secure Storage	1	120	120	120	
		<u> </u>				_		_		Est. Internal Suite Circulation (30%)			_	204	
		6					1	14						884	
		Subtotal - Student Services		3,795	1 I								Г	7,006	

53631-00

1► DETAILED SPACE PROGRAM

							TECH WEST / TECH CENTER "BACKFILL" PROGRAM, CO	NT'D.				
Bldg. Bldg. Name Quan.	SOCIAL WORK Count Existing Rooms	D	NSF/Occ. NSF /Space Total NSF		Quan. Head Count		SOCIAL WORK Proposed Spaces	# Occ.	uce (o	ce to		
Bidg. Bidg. Name Quan.	Social Work	KOOM NO. # UCC.	NSF/OCC. NSF/Space Total NSF		Quan. Head Count		Social Work	# Occ.	NSF/UCC. I	isr/space	iotal NSF	
	No dedicated lab space currently			TL7		Reno Med	Teaching Lab - Simulate Environments (Home, Courtroom, etc.)	4	100	400	400	No critical adjacencies; collaborations with PEO
				TL8		Reno Med	Staging / Props Room			240	240	Scene storage
				TL9 TL10	0 F	Reno Med	Recording Room Observation Room	16	30	120 480	0 480	Observation Room to serve this function
				1110	1		Observation Room	16	30	480	1,120	
											1,120	
					3 10	Office	Intercampus Academic Programs - Social Work - SEE BACKFILL	1	120	120	360	
										_	360	
										r.		
	Subtotal - Social Work		0	-							1,480	
	PROFESSIONAL ED & OUTREACH						PROFESSIONAL ED & OUTREACH					
Bldg. Bldg. Name Quan.	Count Existing Rooms	Room No. # Occ.	NSF/Occ. NSF /Space Total NSF		Quan. Head Count		Proposed Spaces	# Occ.	NSF/Occ. I	ISF/Space	Total NSF	
12 OUTREACH 1	1 Office	102	476 476	PE1	1 1 F	Reno Light	Office Director I (Zoller)		150	150	150	
12 OUTREACH 1	Office Service	102 102A	4/6 4/6 22 22	PE1		Reno Light	Academic Advisor (Hoffman)	1	60	60	60	Shared office (120 SF)
12 OUTREACH 1	Office Service	102A 102B	33 33	PE3		Reno Light	Program / Project Coordinator (Wilson)	1	60	60	60	Shared office (120 SF)
12 OUTREACH 1	Processing Room	106	346 346	PE4		Reno Light	Receptionist (Student - TBC)	1	64	64	64	Shared Office (120 St)
12 OUTREACH 1	Storage Room	106A	71 71	PE5		Reno Light	Future Position - Media Design / Videography	1	120	120	120	
12 OUTREACH 1	Conference Room	107	273 273	PE6		Reno Light	Lobby / Waiting Area	6	36	216	216	
12 OUTREACH 1	1 Office / Corridor	109	330 330	PE7		Reno Light	Processing Room			350	350	
12 OUTREACH 1	1 Director Office	110	143 143	PE8		Reno Light	Conference Room	6	30	180	180	Replaces Outreach Room 107
12 OUTREACH 1	Storage	114	55 55	PE9	1 F	Reno Light	Storage		80	80	80	
12 OUTREACH 1	Classroom	115	813 813	1			Est. Internal Suite Circulation (30%)				384	
12 OUTREACH 1	Classroom Service	115A	130 130	1							1,664	
12 OUTREACH 1	Special Class Lab - Testing Center	116	293 293	1								
12 OUTREACH 1	Special Class Lab - Testing Center ADA	116A	161 161 172 172									
12 OUTREACH 1	2 Reception Reception Lounge	117 118	172 172 118 118									
12 OUTREACH 1	Office	119	170 170									
II domenti I	Office	113	3,606				Training Space					Parking = 1:1 ratio (vehicle/student)
			2,222	PE10	1 F	Reno Med	Reception - Lobby / Check-In / Catering	25	20	500	500	New Space - with lockers and catering space
14 CONST LAB 1	Hoteling / Storage	100	226 226	PE11	1 F	Reno Light	Classroom (30-p)	30	33	990	990	Replace Outreach Bldg Room 115
						-						Replaces Const. Lab Room 101; used in partnership w/ KD0
14 CONST LAB 1	Classroom	101	673 673	PE12		Reno Light	Computer Lab (20-p)	20	35	700	700	for training, exams
14 CONST LAB 1	Class Lab Service	105B	167 167	PE13		Reno Heavy	Construction Lab (40-p) / Wet Lab	40	60	2,400	2,400	Overhead door; (15) inspectors + (25) students
14 CONST LAB 1	Class Lab	106	2,189 2,189	PE14		Reno Heavy	Construction Lab Prep Area			330	330	New space - Include workstation for Lab Tech (Davis)
14 CONST LAB 1	Class Lab	107	1,329 1,329	PE15		Reno Light	Construction Lab Consumable Storage			200	200	Replace Const. Lab Room 105B
_			4,584	PE16		Reno Light	Construction Lab General Storage			225	225	Replace Const. Lab Room 100
	5				5						5,345	
	5 Subtotal - Professional Ed & Outreach		8,190		5					ſ	7,009	<u></u>
	Subtotal - Professional Ed & Outreach		8,190		5		AUXILIARY SERVICES - OPERATIONS					
Bidg. Bidg. Name Quan.	•	Room No. # Occ.	8,190 NSF/Occ. NSF/Space Total NSF		Quan. Head Count		AUXILIARY SERVICES - OPERATIONS Proposed Spaces	# Occ.	NSF/Occ. I	ISF/Space	7,009	
	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations	Room No. # Occ.	7.1					# Occ.	NSF/Occ. I	ISF/Space	7,009	
14 CONST LAB 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms	101	NSF/Occ. NSF/Space Total NSF 673 673				Proposed Spaces Facilities - Shops				7,009 Total NSF	
14 CONST LAB 1 15 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge	101 101	NSF/Occ. NSF/Space Total NSF 673 673 670 670	FS1	Quan. Head Count		Proposed Spaces Facilities - Shops Break / Show Up Room	20	25	500	7,009 Total NSF	Size for 20-p to hold meetings
14 CONST LAB 1 15 FM SHOPS 1 15 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry	101 101 103	NSF/Occ. NSF/Space Total NSF 673 673 670 670 142 142	FS2	Quan. Head Count		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry			500 120	7,009 Total NSF 500 120	Exisitng space can be reduced
14 CONST LAB 1 15 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge	101 101	NSF/Occ. NSF/Space Total NSF 673 673 670 670		Quan. Head Count		Proposed Spaces Facilities - Shops Break / Show Up Room	20	25	500	7,009 Total NSF	Exisiting space can be reduced Storage of plumbing and HVAC parts
14 CONST LAB 1 15 FM SHOPS 1 15 FM SHOPS 1 15 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop	101 101 103 104	NSF/Occ. NSF/Space Total NSF 673 673 670 670 142 142 848 848	FS2 FS3	Quan. Head Count 1 1 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop	20	25	500 120 1,200	7,009 Total NSF 500 120 1,200	Exisitng space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles,
14 CONST LAB 1 15 FM SHOPS 1 15 FM SHOPS 1 15 FM SHOPS 1 15 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop Shop - Garage	101 101 103 104	NSF/Occ. NSF/Space Total NSF 673 673 670 670 142 142 848 848 1,333 1,333	FS2 FS3 FS4	Quan. Head Count		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry	20	25	500 120	7,009 Total NSF 500 120	Exisiting space can be reduced Storage of plumbing and HVAC parts
14 CONST LAB 1 15 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Eststing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office	101 101 103 104	NSF/Occ. NSF/Space Total NSF 673 673 670 670 670 142 142 848 848 1,333 1,333 108 108	FS2 FS3 FS4 FS5	Quan. Head Count 1 1 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage	20	25	500 120 1,200	7,009 Total NSF 500 120 1,200	Exisitng space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles,
14 CONST LAB 1 15 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop Shop - Garage	101 101 103 104 105 105A 105B	NSF/Occ. NSF/Space Total NSF 673 673 670 670 670 142 142 848 848 1,333 1,333 108 108 358 358	FS2 FS3 FS4	Quan. Head Count 1 1 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop	20	25	500 120 1,200 1,300	7,009 Total NSF 500 120 1,200 1,300 0	Exisiting space can be reduced Storage of plumbing and HVAC parts Double wide, Lawn equip - mowers, utility vehicles, snowplows, snow blowers
14 CONST LAB 1 15 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Wash Bay	101 101 103 104 105 105A	NSF/Occ. NSF/Space Total NSF 673 673 670 670 670 142 142 848 848 1,333 1,333 108 108	FS2 FS3 FS4 FS5 FS6	Quan. Head Count 1 1 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage)	20	25	500 120 1,200 1,300	7,009 Total NSF 500 120 1,200 1,300	Exisitng space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles,
14 CONST LAB 1 15 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Camps Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Wash Bay Shop - Weld Room	101 101 103 104 105 105A 105B	NSF/Occ. NSF/Space Total NSF 673 673 670 670 142 142 848 848 1,333 1,333 108 108 358 358 257 257	FS2 FS3 FS4 FS5 FS6 FS7	Quan. Head Count 1 1 1 0 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Wold Room	20	25	500 120 1,200 1,300 358 150	7,009 Total NSF 500 120 1,200 1,300 0 150	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening
14 CONST LAB 1 15 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Loundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Wed Room Storage - Wed Room Storage - Wed Room Storage - Wed Room	101 101 103 104 105 105A 105B 106	NSF/Occ. NSF /Space Total NSF 673 670 670 142 142 848 848 1,333 1,333 108 108 358 358 257 257 96 98 281 281 281 262 226 226	FS2 FS3 FS4 FS5 FS6 FS7	Quan. Head Count 1 1 1 0 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Wold Room	20	25	500 120 1,200 1,300 358 150	7,009 Total NSF 500 120 1,200 1,300 0 150	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening
14 CONST LAB 1 15 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Camps Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Wash Bay Shop - Weld Room Storage - Weld Room 1 Office	101 101 103 104 105 105A 105B 106 106A	NSF/Occ. NSF/Space Total NSF 673 673 670 670 142 142 848 848 1,333 1,333 108 108 358 358 257 257 98 98 281 281	FS2 FS3 FS4 FS5 FS6 FS7	Quan. Head Count 1 1 1 0 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage)	20	25	500 120 1,200 1,300 358 150	7,009 Total NSF 500 120 1,200 1,300 0 150	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening
14 CONST LAB 1 15 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop Shop - But Shop Mechanic Office Shop - Wash Bay Shop - Weld Room Storage - Weld Room 1 Office 1 Office	101 103 104 105 105A 105B 106 106A 107 108	NSF/Occ. NSF /Space Total NSF 673 673 673 670 670 142 142 848 848 848 1.333 1.333 108 108 358 358 257 257 98 98 281 281 281 286 226 226 4,994	FS2 FS3 FS4 FS5 FS6 FS7 FS8	Quan. Head Count 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF	20	25	500 120 1,200 1,300 358 150 250	7,009 Total NSF 500 120 1,200 1,300 0 150 0	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment
14 CONST IAB 1 15 FM SHOPS 1 16 FM SHOPS 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SPC Facilities Lounge Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Wash Bay Shop - Weld Room 3 torage - Weld Room 1 Office 1 Office	101 101 103 104 105 105A 105B 106 106A 107 108	NSF/Occ. NSF /Space Total NSF 673 673 673 673 142 142 848 848 1,333 1,338 358 358 257 257 98 98 281 281 226 4,994 278 278 278	FS2 FS3 FS4 FS5 FS6 FS7 FS8	Quan. Head Count 1 1 1 1 0 1 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage	20	25	500 120 1,200 1,300 358 150 250	7,009 Total NSF 500 120 1,200 1,300 0 150 0	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future
14 CONST LAB 1 15 FM SHOPS 1 16 FM OFFICES 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Wash Bay Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office 1 Office	101 103 104 105 105A 105B 106 106A 107 108	NSF/Occ. NSF/Space Total NSF 673 673 673 670 670 142 142 848 848 1,333 1,333 108 108 358 358 257 257 98 98 281 281 226 226 4,994 278 278 1,200 1,200	FS2 FS3 FS4 FS5 FS6 FS7 FS8	Quan. Head Count 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage)	20	25	500 120 1,200 1,300 358 150 250	7,009 Total NSF 500 120 1,200 1,300 0 150 0	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment
14 CONST IAB 1 15 FM SHOPS 1 16 FM OFFICES 1 16 FM OFFICES 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Cansur Sealtities Waintenance & Operations Classroom - Assigned to SPC Facilities Lounge Lounge Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Wash Bay Shop - Weld Room 3 torage - Weld Room 1 Office 1 Office 1 Office Storage - (includes 3rd cage for Cust. Supplies) Secure Storage - Custodial Supplies	101 101 103 104 105 105A 105B 106 106A 107 108	NSF/Occ. NSF /Space Total NSF 673 673 673 673 142 142 848 848 1,333 1,338 1308 1308 358 358 257 257 98 98 281 281 226 226 4,994 278 278 1,200 1,200 70 70	FS2 FS3 FS4 FS5 FS6 FS7 FS8	Quan. Head Count 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage	20	25	500 120 1,200 1,300 358 150 250	7,009 Total NSF 500 120 1,200 1,300 0 150 0	Existing space can be reduced Storage of plumbing and HAVC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future
14 CONST IAB 1 15 FM SHOPS 1 16 FM SHOPS 1 16 FM SHOPS 1 16 FM OFFICES 1 16 FM OFFICES 1 16 FM OFFICES 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Eststing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Wash Bay Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office Storage - (includes 3rd cage for Cust. Supplies) Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies	101 103 104 105 105A 105B 106 106A 107 108 101 104 104 104A	NSF/Occ. NSF/Space Total NSF 673 673 673 670 670 142 142 848 848 1,333 1,333 108 108 358 358 257 257 98 98 281 281 226 226 4,994 278 1,200 7,70 70 150 150 150	FS2 FS3 FS4 FS5 FS6 FS7 FS8	Quan. Head Count 1 1 1 1 1 0 1 0 0		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage)	20	25	500 120 1,200 1,300 358 150 250 4,000 1,200 400	7,009 Total NSF 500 120 1,200 1,300 0 150 0 4,000 0 0	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets
14 CONST IAB 1 15 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Waintenance & Operations Classroom - Assigned to SPC Facilities Lounge Lounge Lounge Lounge Shop - ME Shop Shop - Garage Mechanic Office Shop - Wesh Bay Shop - Weish Room Storage - Weld Room 1 Office 1 Office 1 Office Storage - (includes 3rd cage for Cust. Supplies) Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies	101 101 103 104 105 105A 105B 106 106A 107 108 101 104 104B 105B	NSF/Occ. NSF /Space Total NSF 673 673 673 673 673 674 142 142 848 848 1,333 1,333 108 108 257 257 98 98 281 221 226 4294 278 278 1,200 1,200 70 150 150 155 155	FS2 FS3 FS4 FS5 FS6 FS7 FS8	Quan. Head Count 1 1 1 1 1 0 1 0 0		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage)	20	25	500 120 1,200 1,300 358 150 250	7,009 Total NSF 500 120 1,200 1,300 0 150 0	Existing space can be reduced Storage of plumbing and HAVC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future
14 CONST IAB 1 15 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Eststing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Wash Bay Shop - Weld Room Storage - Weld Room 1 Office 1 Office Storage - (includes 3rd cage for Cust. Supplies) Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies Paint Room 1 Office	101 103 104 105 105A 105B 106 106A 107 108 101 104 104A 104B 105 108	NSF/Occ. NSF/Space Total NSF 673 673 670 670 142 142 848 848 1,333 1,333 108 108 358 358 257 257 98 98 281 281 226 226 4,994 278 278 1,200 1,200 70 70 150 155 1341 341	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS21 FS9 FS10	Quan. Head Count 1 1 1 1 1 0 1 0 1 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Wold Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room	20	25	500 120 1,200 1,300 1,300 358 150 250 4,000 1,200 400	7,009 Total NSF 500 120 1,200 1,300 0 150 0 4,000 0 155	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets
14 CONST IAB 1 15 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Waintenance & Operations Classroom - Assigned to SPC Facilities Lounge Lounge Lounge Lounge Shop - ME Shop Shop - Garage Mechanic Office Shop - Wesh Bay Shop - Weish Room Storage - Weld Room 1 Office 1 Office 1 Office Storage - (includes 3rd cage for Cust. Supplies) Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies	101 101 103 104 105 105A 105B 106 106A 107 108 101 104 104B 105B	NSF/Occ. NSF /Space Total NSF 673 673 673 673 673 674 142 142 848 848 1,333 1,333 108 108 257 257 98 98 281 221 226 4294 278 278 1,200 1,200 70 150 150 155 155	FS2 FS3 FS4 FS5 FS6 FS7 FS8	Quan. Head Count 1 1 1 1 1 0 1 0 1 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage)	20	25	500 120 1,200 1,300 358 150 250 4,000 1,200 400	7,009 Total NSF 500 120 1,200 1,300 0 150 0 4,000 0 0	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets
14 CONST IAB 1 15 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Lounge Lounge Lounge Mechanic Office Shop - Mes Shop Mechanic Office Shop - Wash Bay Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office Storage - (includes 3rd cage for Cust. Supplies) Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies Paint Room 1 Office CARP Shop	101 103 104 105 105A 105B 106 106A 107 108 101 104 104A 104B 105 108	NSF/Occ. NSF /Space Total NSF 673 673 673 673 673 142 142 848 848 1,333 1,333 1,08 108 358 358 257 257 98 98 281 226 4,994 278 278 1,200 1,200 70 150 150 155 155 341 341 1,528 1,528	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS21 FS9 FS10	Quan. Head Count 1 1 1 1 1 0 1 0 1 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Wold Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room	20	25	500 120 1,200 1,300 1,300 358 150 250 4,000 1,200 400	7,009 Total NSF 500 120 1,200 1,300 0 150 0 4,000 0 155	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets
14 CONST LAB 1 15 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Camps Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office 1 Office Care Storage - Custodial Supplies Secure Storage - Custodial Supplies Paint Room 1 Office CARP Shop CARP Office Tool Room 1 Office CARP Shop CARP Office Tool Room 1 Office Tool Room 1 Office CARP Office Tool Room 1 Office	101 103 104 105 105A 105B 106A 107 108 101 104 1004 105B 105B 1001 104 104A 105B 1100 1100B 1110A 1111 202	NSF/Occ. NSF /Space Total NSF 673 673 670 673 142 142 848 848 1,333 1,333 108 108 358 358 257 257 98 98 281 281 226 226 4,994 278 278 1,200 1,200 70 70 150 155 341 341 1,528 1,528 1,000 89 89 252 525	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS21 FS9 FS10 FS11	Quan. Head Count 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above)	20	25	500 120 1,200 1,300 358 150 250 4,000 1,200 400 155	7,009 Total NSF 500 120 1,200 1,300 0 150 0 4,000 0 155 0	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets Or not needed?
14 CONST IAB 1 15 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Lounge Lounge Lounge Augher - Garage Mechanic Office Shop - Wash Bay Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office 1 Office Secure Storage - Custodial Supplies CARP Shop CARP Shop CARP Shop CARP Office Tool Room 1 Office 1 Office	101 103 104 105 105A 105B 106 106A 107 108 101 104 104A 104B 105 110 110 110A	NSF/Occ. NSF /Space Total NSF 673 673 673 673 142 142 848 848 1,333 1,333 1,08 108 108 358 358 257 257 98 281 226 226 4,934 278 278 1,200 1,200 70 150 150 155 155 341 341 1,528 1,528 1,00 89 89 235 235 164 164 164	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS21 FS9 FS10 FS11	Quan. Head Count 1 1 1 1 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above) Secure Tool Room	20	25	500 120 1,200 1,300 358 150 250 4,000 1,200 400 1,550 200	7,009 Total NSF 500 120 1,200 1,300 0 150 0 4,000 0 0 155 0 200	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets Or not needed? Double size of existing
14 CONST LAB 1 15 FM SHOPS 1 16 FM SHOPS 1 16 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Camps Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Loundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office Sorage - (includes 3rd cage for Cust. Supplies) Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies Paint Room 1 Office CARP Shop CARP Office Tool Room 1 Office 1 Office 1 Office 1 Office Tool Room 1 Office	101 103 104 105 105A 105B 106A 107 108 101 104 104A 105B 105 108 110 110A 1111 202 203 204	NSF/Occ. NSF /Space Total NSF 673 673 673 673 142 142 848 848 1,333 1,333 1,333 1,333 1,333 1,333 1,257 98 98 281 281 26 226 4,994 278 278 1,200 1,200 70 150 150 155 155 341 341 1,528 1,528 1,000 1,000 89 89 235 235 164 164 267 267	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS21 FS11 FS11 FS12 FS13	Quan. Head Count 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above) Secure Tool Room Irrigation Supply Storage (see Consolidated Storage)	20	25	500 120 1,200 1,300 358 150 250 4,000 1,200 400 1,55 1,550 200	7,009 Total NSF 500 120 1,200 1,300 0 150 0 4,000 0 0 155 0 200	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets Or not needed? Double size of existing
14 CONST LAB 1 15 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Lounge Lounge Lounge Assigned to SFC Facilities Shop - Med Shop - Med Shop - Garage Mechanic Office Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office 1 Office Secure Storage - Custodial Supplies CARP Shop CARP Office Tool Room 1 Office I Office	101 103 104 105 105A 105B 106 106A 107 108 101 104 104A 104B 105 108 110 1100 1100 1100 1100 1100 11	NSF/Occ. NSF /Space Total NSF 673 673 673 673 142 142 848 848 1,333 1,333 1,08 108 358 358 257 257 98 281 226 226 4,994 278 278 1,200 1,200 150 150 155 155 341 341 1,528 1,528 1,00 100 89 89 235 235 164 164 267 267	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS21 FS11 FS12 FS13 FS14 FS14 FS14	Quan. Head Count 1 1 1 1 1 0 1 0 1 0 1 0 0 0		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above) Secure Tool Room Irrigation Supply Storage (see Consolidated Storage) CARP Storage (see Consolidated Storage)	20	25	500 120 1,200 1,300 3588 150 250 4,000 1,200 400 155 1,550 200	7,009 Total NSF 500 120 1,200 0,150 0 155 0 200	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets Or not needed? Double size of existing
14 CONST LAB 1 15 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office 1 Office CAPP Storage - Custodial Supplies Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies Paint Room 1 Office CAPP Office Tool Room 1 Office CAP Office 1 Office 1 Office Tool Room 1 Office APP Office Tool Room 1 Office Storage - Castodial Supplies Paint Room 1 Office CAP Storage - Castodial Supplies Paint Storage CARP Storage CARP Storage	101 103 104 105 105A 105B 106A 107 108 101 104 104A 105B 110 110A 1111 202 203 204 205 206	NSF/Occ. NSF /Space Total NSF 673 673 673 673 142 142 848 848 1,333 1,333 1,333 1,333 358 358 257 257 98 98 281 281 26 226 4,994 278 278 1,200 1,200 70 150 150 155 155 341 341 1,528 1,528 100 100 88 89 235 235 164 164 267 267 474 474 435 435	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS21 FS11 FS11 FS12 FS13	Quan. Head Count 1 1 1 1 1 0 1 0 1 0 1 0 0 0		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above) Secure Tool Room Irrigation Supply Storage (see Consolidated Storage)	20	25	500 120 1,200 1,300 358 150 250 4,000 1,200 400 1,55 1,550 200	7,009 Total NSF 500 120 1,200 1,300 0 150 0 4,000 0 0 155 0 200	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets Or not needed? Double size of existing
14 CONST LAB 1 15 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office 1 Office 1 Office Auxiliary - Weld Room 1 Office CARP Shop - Custodial Supplies Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies CARP Shop CARP Office Tool Room 1 Office 1 Office 1 Office CARP Shop CARP Shop CARP Storage PME Storage	101 103 104 105 105A 105B 106 106A 107 108 101 104 104A 104B 105 108 110 110A 1111 202 203 204 205 206 207	NSF/Occ. NSF /Space Total NSF 673 673 673 673 142 142 848 848 1,333 1,333 108 108 358 358 257 257 98 98 98 281 281 226 226 4,994 278 278 1,200 1,200 70 150 150 155 155 341 341 1,528 1,528 100 100 89 89 235 235 164 164 267 267 474 474 435 435	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS21 FS11 FS12 FS13 FS14 FS14 FS14	Quan. Head Count 1 1 1 1 1 0 1 0 1 0 1 0 0 0		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above) Secure Tool Room Irrigation Supply Storage (see Consolidated Storage) CARP Storage (see Consolidated Storage)	20	25	500 120 1,200 1,300 3588 150 250 4,000 1,200 400 155 1,550 200	7,009 Total NSF 500 120 1,200 0,150 0 155 0 200	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets Or not needed? Double size of existing
14 CONST LAB 1 15 FM SHOPS 1 16 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Lounge Lounge Lounge Mechanic Office Shop - PME Shop Shop - Wash Bay Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office Storage - (includes 3rd cage for Cust. Supplies) Secure Storage - Custodial Supplies Joffice CARP Shop CARP Office Tool Room 1 Office 1 Office 1 Office 1 Office Tool Room 1 Office Storage - Storage Shop Storage Shop Storage Shop Storage Shop Service Office Service	101 103 104 105 105A 105B 106A 107 108 101 104 104A 105B 110 110A 1111 202 203 204 205 206 207 208	NSF/Occ. NSF /Space Total NSF 673 673 673 673 142 142 848 848 1,332 1,333 138 358 358 358 257 257 98 98 281 281 226 226 4,994 278 278 1,200 1,200 70 70 70 150 150 150 155 155 341 341 1,528 1,528 1,000 100 89 98 235 235 164 164 267 267 474 474 435 18 18	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS21 FS9 FS10 FS11 FS12 FS13 FS14 FS15 FS16	Quan. Head Count 1 1 1 1 0 1 0 1 0 1 0 0 0 0		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above) Secure Tool Room Irrigation Supply Storage (see Consolidated Storage) PME Storage (see Consolidated Storage)	20	25	500 120 1,200 1,300 1,300 358 150 250 4,000 1,200 400 155 1,550 200 267 500 450	7,009 7,009	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets Or not needed? Double size of existing
14 CONST LAB 1 15 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Lounge Laundry Shop - PME Shop Shop - Garage Mechanic Office Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office 1 Office 1 Office Auxiliary - Weld Room 1 Office CARP Shop - Custodial Supplies Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies CARP Shop CARP Office Tool Room 1 Office 1 Office 1 Office CARP Shop CARP Shop CARP Storage PME Storage	101 103 104 105 105A 105B 106 106A 107 108 101 104 104A 104B 105 108 110 110A 1111 202 203 204 205 206 207	NSF/Occ. NSF /Space Total NSF 673 673 673 673 142 142 848 848 1,333 1,333 1,08 108 358 358 257 257 98 98 98 281 281 226 226 4,994 278 278 1,200 1,200 150 150 155 155 341 341 1,528 1,528 1,00 100 89 89 235 235 164 164 267 267 474 474 435 435 18 18 115 115 699 699	FS221 FS30 FS40 FS55 FS66 FS77 FS80 FS221 FS99 FS10 FS111 FS12 FS13 FS14 FS15 FS16 FS16 FS16 FS16 FS16 FS16 FS16 FS16	Quan. Head Count 1 1 1 1 1 0 1 0 1 0 0 1 0 0 0 0		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above) Secure Tool Room Irrigation Supply Storage (see Consolidated Storage) PME Storage (see Consolidated Storage) PME Storage (see Consolidated Storage) Shop Storage (see Consolidated Storage)	20	25	500 120 1,200 1,300 3588 150 250 4,000 400 155 1,550 200 267 500 450	7,009 Total NSF 500 120 1,200 1,300 0 150 0 155 0 200 0 0 0 0 0	Existing space can be reduced Storage of plumbing and HAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets Or not needed? Double size of existing
14 CONST LAB 1 15 FM SHOPS 1 16 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Lounge Lounge Lounge Mechanic Office Shop - PME Shop Shop - Wash Bay Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office Storage - (includes 3rd cage for Cust. Supplies) Secure Storage - Custodial Supplies Joffice CARP Shop CARP Office Tool Room 1 Office 1 Office 1 Office 1 Office Tool Room 1 Office Storage - Storage Shop Storage Shop Storage Shop Storage Shop Service Office Service	101 103 104 105 105A 105B 106A 107 108 101 104 104A 105B 110 110A 1111 202 203 204 205 206 207 208	NSF/Occ. NSF /Space Total NSF 673 673 673 673 142 142 848 848 1,332 1,333 138 358 358 358 257 257 98 98 281 281 226 226 4,994 278 278 1,200 1,200 70 70 70 150 150 150 155 155 341 341 1,528 1,528 1,000 100 89 98 235 235 164 164 267 267 474 474 435 18 18	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS21 FS9 FS10 FS11 FS12 FS13 FS14 FS15 FS16	Quan. Head Count 1 1 1 1 1 0 1 0 1 0 0 1 0 0 0 0		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above) Secure Tool Room Irrigation Supply Storage (see Consolidated Storage) PME Storage (see Consolidated Storage)	20	25	500 120 1,200 1,300 1,300 358 150 250 4,000 1,200 400 155 1,550 200 267 500 450	7,009 7,009	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets Or not needed? Double size of existing
14 CONST LAB 1 15 FM SHOPS 1 16 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Lounge Lounge Lounge Mechanic Office Shop - PME Shop Shop - Wash Bay Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office Storage - (includes 3rd cage for Cust. Supplies) Secure Storage - Custodial Supplies Joffice CARP Shop CARP Office Tool Room 1 Office 1 Office 1 Office 1 Office Tool Room 1 Office Storage - Storage Shop Storage Shop Storage Shop Storage Shop Service Office Service	101 103 104 105 105A 105B 106A 107 108 101 104 104A 105B 110 110A 1111 202 203 204 205 206 207 208	NSF/Occ. NSF /Space Total NSF 673 673 673 673 142 142 848 848 1,333 1,333 1,08 108 358 358 257 257 98 98 98 281 281 226 226 4,994 278 278 1,200 1,200 150 150 155 155 341 341 1,528 1,528 1,00 100 89 89 235 235 164 164 267 267 474 474 435 435 18 18 115 115 699 699	FS221 FS30 FS40 FS55 FS66 FS77 FS80 FS221 FS99 FS10 FS111 FS12 FS13 FS14 FS15 FS16 FS16 FS16 FS16 FS16 FS16 FS16 FS16	Quan. Head Count 1 1 1 1 1 0 1 0 1 0 0 1 0 0 0 0		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above) Secure Tool Room Irrigation Supply Storage (see Consolidated Storage) PME Storage (see Consolidated Storage) PME Storage (see Consolidated Storage) Shop Storage (see Consolidated Storage)	20	25	500 120 1,200 1,300 3588 150 250 4,000 400 155 1,550 200 267 500 450	7,009 Total NSF 500 120 1,200 1,300 0 150 0 155 0 200 0 0 0 0 0	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future includes oversize golf cart and pallets Or not needed? Double size of existing
14 CONST LAB 1 15 FM SHOPS 1 16 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Lounge Lounge Lounge Mechanic Office Shop - PME Shop Shop - Wash Bay Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office Storage - (includes 3rd cage for Cust. Supplies) Secure Storage - Custodial Supplies Joffice CARP Shop CARP Office Tool Room 1 Office 1 Office 1 Office 1 Office Tool Room 1 Office Storage - Storage Shop Storage Shop Storage Shop Storage Shop Service Office Service	101 103 104 105 105A 105B 106A 107 108 101 104 104A 105B 110 110A 1111 202 203 204 205 206 207 208	NSF/Occ. NSF /Space Total NSF 673 673 673 673 674 482 484 848 1.333 1.333 1.08 1.08 1.08 2.57 2.57 2.57 2.58 2.81 2.81 2.60 2.66 4.994 2.78 2.78 2.78 1.00 1.000 1.55 1.55 3.41 3.41 1.5.28 1.5.28 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS12 FS12 FS13 FS14 FS15 FS16 FS17 FS18 FS17 FS18 FS17 FS18 FS17 FS18 FS19 FS19 FS19 FS19 FS19 FS19 FS19 FS19	Quan. Head Count 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above) Secure Tool Room Irrigation Supply Storage (see Consolidated Storage) PME Storage (see Consolidated Storage) PME Storage (see Consolidated Storage) Shop Storage (see Consolidated Storage) Bulky Item Storage - Furniture, etc. (see Consolidated Storage) Bulky Item Storage (Currently in 3 Outdoor Containers - See Consol.)	20	25	500 120 1,200 1,300 3588 150 250 4,000 400 155 1,550 200 267 500 450	7,009 Total NSF 500 120 0 1,200 0 150 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Existing space can be reduced Storage of plumbing and HAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets Or not needed? Double size of existing
14 CONST LAB 1 15 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Lounge Laundry Shop - PME Shop Shop - Wash Bay Shop - Weld Room 1 Office 1 Office 1 Office 1 Office Storage - (Includes 3rd cage for Cust. Supplies) Secure Storage - Custodial Supplies 1 Office CARP Shop CARP Office 1 Office 1 Office 1 Office 1 Office 1 Office Storage - Custodial Supplies Secure Storage - Custodial Supplies Secure Storage - Custodial Supplies Paint Room 1 Office 1 Office 1 Office 1 Office 1 Office 1 Office Storage Shop Storage Shop Service Office Service Shop Storage	101 103 104 105 105A 105B 106A 107 108 101 104 104A 105B 110 110A 1111 202 203 204 205 206 207 208	NSF/Occ. NSF /Space Total NSF 673 673 673 673 142 142 848 848 1,333 1,333 108 358 358 257 257 98 98 2126 226 278 278 1,200 1,200 70 150 150 155 155 341 341 1,528 1,528 100 100 89 98 235 235 164 164 267 267 474 474 474 474 474 474 474 475 18 18 115 115 669 669 6,318	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS21 FS11 FS12 FS13 FS14 FS15 FS16 FS17 FS17 FS18	Quan. Head Count 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above) Secure Tool Room Irrigation Supply Storage (see Consolidated Storage) PME Storage (see Consolidated Storage) Shop Storage (see Consolidated Storage) Bulky Item Storage - Furniture, etc. (see Consolidated Storage) Bulky Item Storage (see Consolidated Storage) Additional Storage (Currently in 3 Outdoor Containers - See Consol.) Salt Shed	20	25	500 120 1,200 1,300 358 150 250 4,000 1,200 400 155 1,550 200 450 699 700	7,009 500 120 1,200 1,300 150 0 150 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets Or not needed? Double size of existing 1,5 (3) 15° x 40° sheds/shipping containers for storage of tools
14 CONST LAB 1 15 FM SHOPS 1 16 FM SHOPS 1 16 FM OFFICES 1	Subtotal - Professional Ed & Outreach AUXILIARY SERVICES - OPERATIONS Count Existing Rooms Campus Facilities Maintenance & Operations Classroom - Assigned to SFC Facilities Lounge Lounge Laundry Shop - PME Shop Shop - Weld Room Storage - Weld Room 1 Office 1 Office 1 Office 1 Office 1 Office CAPP Shop CAPP Shop CAPP Shop CAPP Shop CAPP Office 1 Office I Office CAPP Shop CAPP Shorage PME Storage PME Storage PME Storage Shop Service Shop Service Shop Service Shop Storage Storage - Currently in (3) Containers	101 103 104 105 105A 105B 106A 107 108 101 104 104A 105B 110 110A 1111 202 203 204 205 206 207 208	NSF/Occ. NSF /Space Total NSF 673 673 673 673 674 482 484 848 1.333 1.333 1.08 1.08 1.08 2.57 2.57 2.57 2.58 2.81 2.81 2.60 2.66 4.994 2.78 2.78 2.78 1.00 1.000 1.55 1.55 3.41 3.41 1.5.28 1.5.28 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	FS2 FS3 FS4 FS5 FS6 FS7 FS8 FS12 FS12 FS13 FS14 FS15 FS16 FS17 FS18 FS17 FS18 FS17 FS18 FS17 FS18 FS19 FS19 FS19 FS19 FS19 FS19 FS19 FS19	Quan. Head Count 1		Proposed Spaces Facilities - Shops Break / Show Up Room Laundry PME & CARP Shop Garage Wash Bay (Included in Garage) Weld Room Storage (see Consolidated Storage) Exterior Yard - Future Space Allocation = 16,000 - 18,000 NSF Consolidated Storage Storage (see Consolidated Storage) Secure Storage - Custodial Supplies (see Consolidated Storage) Paint Room CARP Shop (Included with PME above) Secure Tool Room Irrigation Supply Storage (see Consolidated Storage) PME Storage (see Consolidated Storage) PME Storage (see Consolidated Storage) Shop Storage (see Consolidated Storage) Bulky Item Storage - Furniture, etc. (see Consolidated Storage) Bulky Item Storage (Currently in 3 Outdoor Containers - See Consol.)	20	25	500 120 1,200 1,300 358 150 250 4,000 1,200 400 400 267 500 450 450	7,009 Total NSF 500 120 0 1,200 0 150 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Existing space can be reduced Storage of plumbing and HVAC parts Double wide; Lawn equip - mowers, utility vehicles, snowplows, snow blowers Welding and sharpening Handheld lawn equipment Total interior space allocation for Storage in the future Includes oversize golf cart and pallets Or not needed? Double size of existing 1,5 (3) 15° x 40° sheds/shipping containers for storage of tools

1► DETAILED SPACE PROGRAM

SECTION 8► APPENDIX

Bldg. Bldg. Name Quan.	Count Existing Rooms	Room No. # Occ.	NSF/Occ. NSF /Space Total NSF		Quan. H	lead Count	t	Proposed Spaces Shop Office Area	# Occ.	NSF/O	cc. NSF/	Space To	tal NSF	
				FS21	1			Mechanic Workstation		1	64	64	64	Adjacent to Garage
				FS22				CARP Workstation			64	64	64	Adjacent to darage
				FS23				Tradesman - Elec., Plumbing, and HVAC			64	64	192	
				1323	•			Est. Internal Suite Circulation (30%)		•	-	04	96	
								Est. Internal saite circulation (50%)				_	416	
								Facilities - Offices						
				FO1	1	1	1	Assoc. Director (Werner)		1 1	.50	150	150	
				FO2	1	1		Custodial Supervisor (Betzner)			.20	120	120	
				FO3	1	1	1	Facility Coordinator (Stout)			20	120	120	
				FO4	1	1	1	Office Specialist / Receptionist (Serrault)			64	64	64	Currently in Bldg 16 Room 101
				FO5	1		_	Storage for Custodial Supplies		_		80	80	Currently in Custodial Sup. Office 107
				FO6	1			Lobby / Waiting Area		4	36	144	144	
				FO7	1			Workroom / Mail			40	140	140	
						- 4	1	Est. Internal Suite Circulation (30%)					245	
							-					_	1,063	
	Subtotal - Campus Facilities		13,112					Subtotal - Campus Facilities					9,604	
	Campus Security Office							Campus Security						
13 EXTENSION 1	1 Office (SOP Secur/Park)	203	414 414	S1	1	1	1	University Police Sargent (Glen)		1 1	20	120	120	
13 EXTENSION 1	1 Office (SOP Secur/Park)	204	123 123	52	1			Key Shop				120	120	
13 EXTENSION 1	1 Office (SOP Secur/Park) - Workspace	205	783 783	S3	1	1	1	Security Officer		1 1	20	120	120	Hoteling Office for rotating officers'
13 EXTENSION 1	1 Office (SOP Secur/Park) - Keying Room	206	361 361	S4	1			Storage				80	80	Uniforms, back-up radios, etc.
13 EXTENSION 1	1 Office (SOP Secur/Park)	207	630 630	S5	1	1	1	Security Officer / Command Center		1 1	20	120	120	Future Position - to monitor campus security cameras
			2,311		_	3	3					_	560	·
	Campus Post Office							Campus Post Office						
16 FM OFFICES 1	Postal Room	103	159 159	P1	1			Postal Room		1 1	59	159	159	All campus mail is accepted and dist. from here
	Campus IT							Information Technology						
7 TECH WEST 1	Reception	182	181 181	IT1	1	1	1	Director II (Carver)			64	64	64	Flexible/hybrid work environment with workstations
7 TECH WEST 1	Conference Room	182A	169 169		1	1	1	Instructional Designer (Wiegert)			64	64	64	Workstation
7 TECH WEST 1	1 Office	182B	130 130	IT3	1	1	1	Sr. Computer Systems Specialist (Hoover)		1	64	64	64	Workstation
7 TECH WEST 1	Editing Room	182C	233 233	IT4	1	1	1	IT Support Specialist II (Hall)		1	64	64	64	Workstation
7 TECH WEST 1	IT Closet	182D	16 16	IT5	1			Countertop / Waiting Area			36	144	144	Countertop and waiting area for walk-ins
7 TECH WEST 1	IT Closet	182E	32 32	IT6	3	3	3	Student Workers		1	36	36	108	
7 TECH WEST 1	1 Office	183	135 135	IT7	1			Shared Workbench / Tools Inventory / Storage				240	240	Sim. KSU Hale ITAC set up
7 TECH WEST 1	1 Office	184	134 134	IT8	1			Meeting Room (4-p)		4	30	120	120	Meeting and phone calls
7 TECH WEST 1	1 Office	186	134 134					Est. Internal Suite Circulation (30%)					260	
7 TECH WEST 1	Server Room	187	106 106											
7 TECH WEST 1	1 Office	188	148 148	IT9	1			Data Closet / Telecom Room				294	294	Room 191 to remain
7 TECH WEST 1	Unpacking / Staging	189	265 265	IT10	1			Unpacking / Staging / Inventory (Possibly in MECH 193B)				842	842	Room 189 is not sufficient
7 TECH WEST 1	Telecom Room	191	294 294										2,264	
			1,977			7	7							
								Operations Group Shared Space						
				OG1				Conference Room (12-p)	1	2	30	360	360	
7 TECH WEST 1	Break Room	181	110 110	OG2	1		_	Break Room				220	220	
						14	4						580	
	Subtotal - Balance of Operations Group		4,557					Subtotal - Balance of Operations Group					3,563	13,168
	Total Net Assignable - TECH WEST & TECH CEN	ITER "BACKFILL" RENOVATION	PROGRAM 39,144									Г	38,152	
	-		•									-		-

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2► GENERAL PURPOSE CLASSROOM SUMMARY

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		Ex	isting Ge	neral Purpos	e Classroom	ıs					Proposed Genera	l Purpose Cla	assrooms			
No. of Classroom s	Building #	Building Name	Room #	Room NSF (KBOR 2020 Report)	Average NSF/Seat (KBOR 2020 Report)	Max Capacity (KBOR 2020 Report)		Max Capacity (KSU Classroom Standards)	No. of Classroom s		# Building Name	Room #	NSF	NSF/Seat	Max Capacity (Active Learning)	Notes
1	3	Composites	106	487	20.3	24	33	15					0			
	4	Aviation Center	138										0			Not included in KBOR Stud
2	4	Aviation Center	139	347	22.3	16	30	12					0			
3	4	Aviation Center	140	743	22.3	33	30	25					0			
4	4	Aviation Center	141	730	22.3	33	30	24					0			
5	4	Aviation Center	142	738	22.3	33	30	25	0	4	Aviation Center	142	738	30	0	Dedicated to AVM
	5	UAS Lab	105A										0			Not included in KBOR Stud
6	6	Tech Center	118	1,025	22.3	46	30	34					0			
7	6	Tech Center	119	994	22.3	45	30	33	1	6	Tech Center	119	994	30	33	Maintain in Tech Center
8	6	Tech Center	120	984	22.3	44	30	33	2	6	Tech Center	120	984	30	33	Maintain in Tech Center
9	7	Tech West	144	811	22.3	36	30	27					0			
10	7	Tech West	151	734	22.3	33	30	24					0			
11	7	Tech West	152	827	22.3	37	27	31					0			
12	7	Tech West	153	653	22.3	29	30	22					0			
13	7	Tech West	154	792	22.3	36	30	26					0			
14	7	Tech West	166	679	22.3	30	30	23					0			
15	7	Tech West	169	778	22.3	35	30	26					0			
16	7	Tech West	172	754	22.3	34	30	25					0			
									3		New Academic Center		1,400	35	40	
									4		New Academic Center		1,400	35	40	
									5		New Academic Center		1,400	35	40	
									6		New Academic Center		1,400	35	40	
									7		New Academic Center		1,400	35	40	
									8		New Academic Center		1,400	35	40	
									9		New Academic Center		1,400	35	40	
									10		New Academic Center		1,400	35	40	
									11		New Academic Center		2,100	35	60	
									0		New Academic Center		1,000	50	0	Dedicated to UAS
				12,076		544		404	11				17,016		446	

Additional Notes

KBOR Study included Tech West 166 which has been used as the AR/VR Lab in recent semesters

KBOR Study included Tech West 169 which is the UAS Teaching Lab

NSF/Seat for existing classrooms is estimated based on K-State Classroom Design Standards (2019)

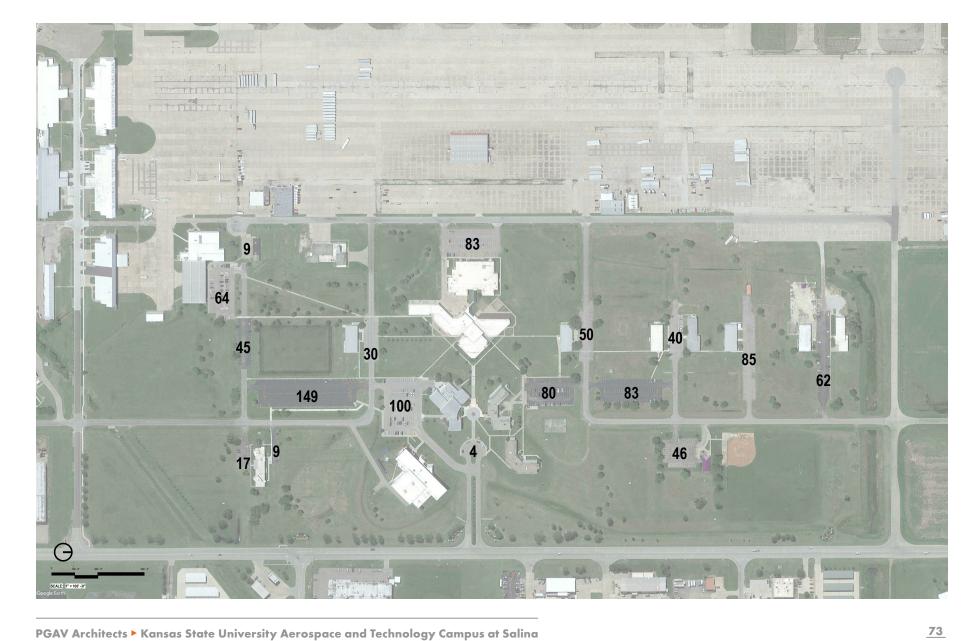
Classrooms proposed in the New Academic Center are sized for active learning



K-State Salina

New Academic Center - Construction Cost Benchmarking (Construction costs include Building & Sitework)

	Project	Bldg. Area		Bldg. Type	Construction Cost	Cost/GSF			Year comp	oleted and co	st escalati	on at 3.5%	annually		1.035
							2016	2017	2018	2019	2020	2021	2022	2023	2024
1	FHSU-Applied Technology Center	58,502	GSF	Vocational Lab/Shop/Class	\$11,328,200	\$193.64	Х	\$200	\$207	\$215	\$222	\$230	\$238	\$246	\$255
2	KSU-College of Business Administration	160,000	GSF	Classroom/Office	\$40,900,000	\$255.63	х	\$265	\$274	\$283	\$293	\$304	\$314	\$325	\$337
3	WSU Bardo Center	133,216	GSF	Lab/Classroom/Office	\$26,900,000	\$201.93		х	\$209	\$216	\$224	\$232	\$240	\$248	\$257
4	UMKC School Engineering Computing	57,873	GSF	Engineering Lab/ Intensive	\$21,406,616	\$369.89				Х	\$382.84	\$383	\$383	\$383	\$383
5	JCCC Hugh Libby Career and Tech Ed Center	72,000	GSF	Vocational Lab/Class/Shops	\$23,049,369	\$320.13				Х	\$331	\$343	\$355	\$367	\$380
6	FHSU Center for Student Success	46,067	GSF	Classroom/Office	\$11,955,000	\$259.51					х	\$269	\$278	\$288	\$298
7	MNU Student Center	47,324	GSF	Classroom/Office/Food Service	\$15,817,822	\$334.25					х	\$346	\$358	\$371	\$384
8	OSU -New Frontiers	201,795	GSF	Lab/Classroom/Office	\$74,702,263	\$370.19						х	\$383	\$397	\$410
9	KCKCC-Applied Tech Center	114,200	GSF	Vocational Lab/Class/Office	\$42,240,000	\$369.88						х	\$383	\$396	\$410
												Sub-Total	\$2,932		\$3,113
											Average C	ost /GSF	\$366		\$389
						Project Soft	Cost Allowance at 3	0% of Constru	ıction Cost				\$110		\$117
						Estimated To	otal Project Cost Per	r SF					\$476		\$506



CLASSROOM

FACULTY OFFICE

STUDENT SERVICES

TEACHING LAB

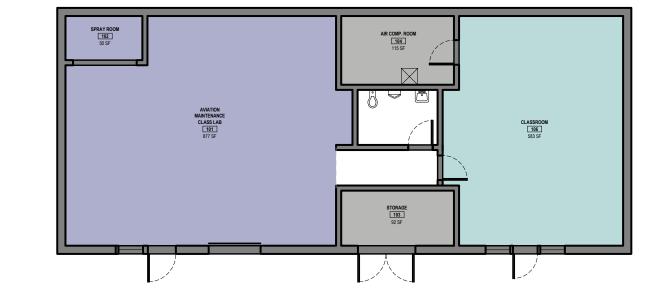
PROF. ED. & OUTREACH

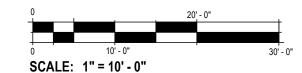
STUDENT STUDY

OPERATIONS

BUILDING SUPPORT

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COMPOSITES BUILDING BUILDING #3



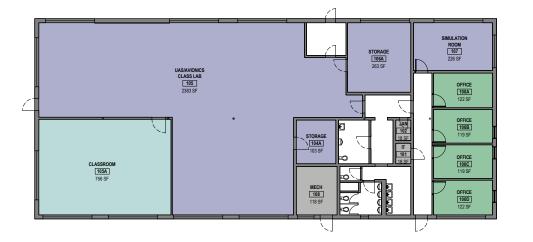
5 EXISTING BUILDING PLANS / SPACE USE

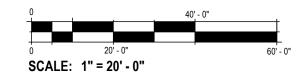


AERONAUTICAL CENTER / STEVENS FLIGHT CENTER BUILDING #4



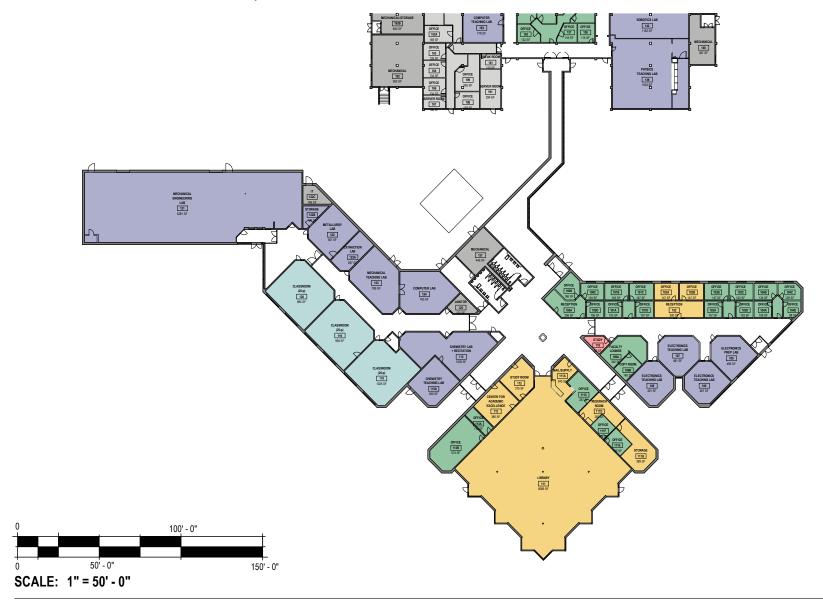
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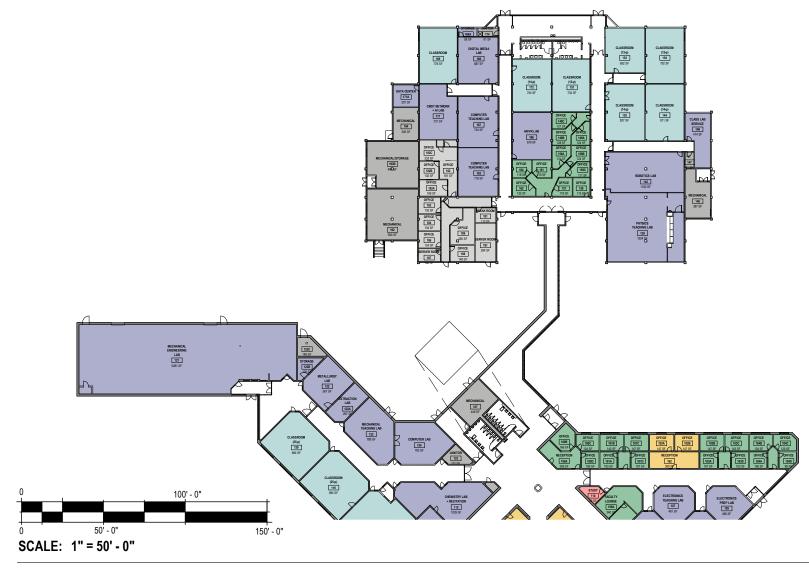
U.A.S. LABORATORY BUILDING #5





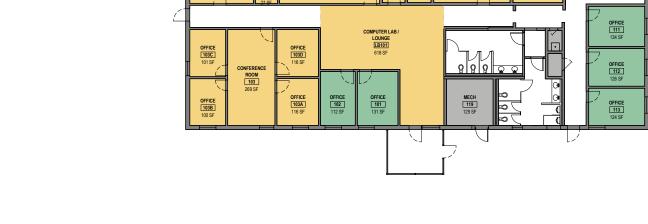
TECHNOLOGY CENTER
BUILDING #6

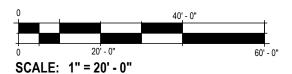








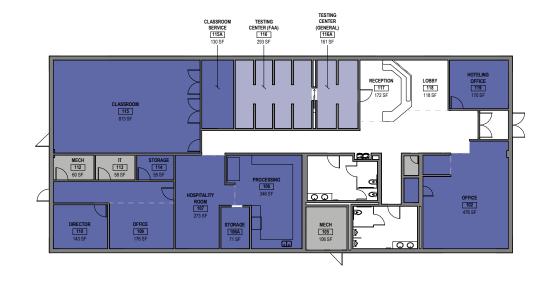


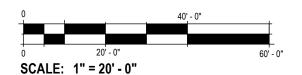


TULLIS BUILDING BUILDING #10



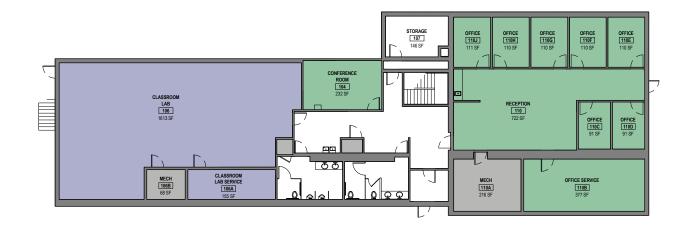
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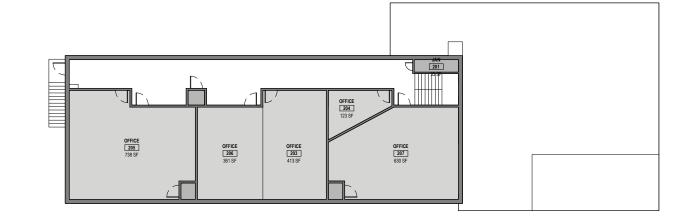


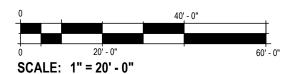


OUTREACH CENTER BUILDING #12





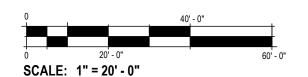




EXTENSION CENTER BUILDING #13



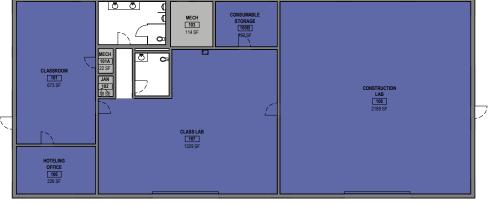
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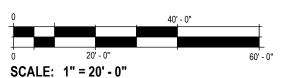


EXTENSION CENTER BUILDING #13





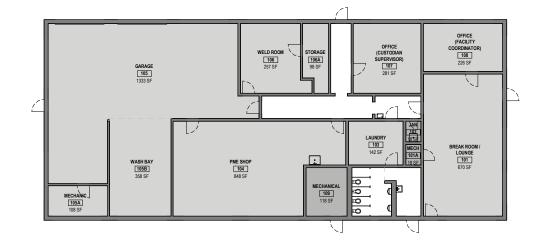


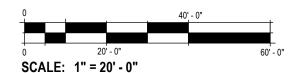


CONSTRUCTION LAB BUILDING #14



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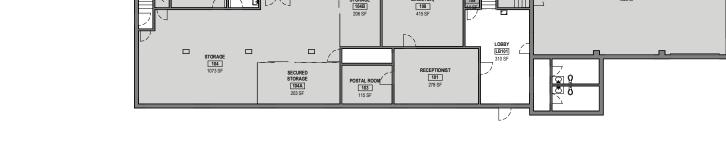
MAINTENANCE BUILDING #15



SHOP SERVICE 207 — 18 SF

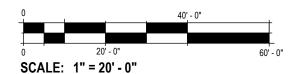
SCALE: 1" = 20' - 0"







PME STORAGE 206 436 SF



FACILITIES BUILDING #16



FACILITIES BUILDING #16

IRRIGATION SUPPLY STORAGE 204 267 SF

OFFICE 203 164 SF



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