

HIGH SCHOOL
EDUCATIONAL SPECIFICATIONS

COMPONENT:

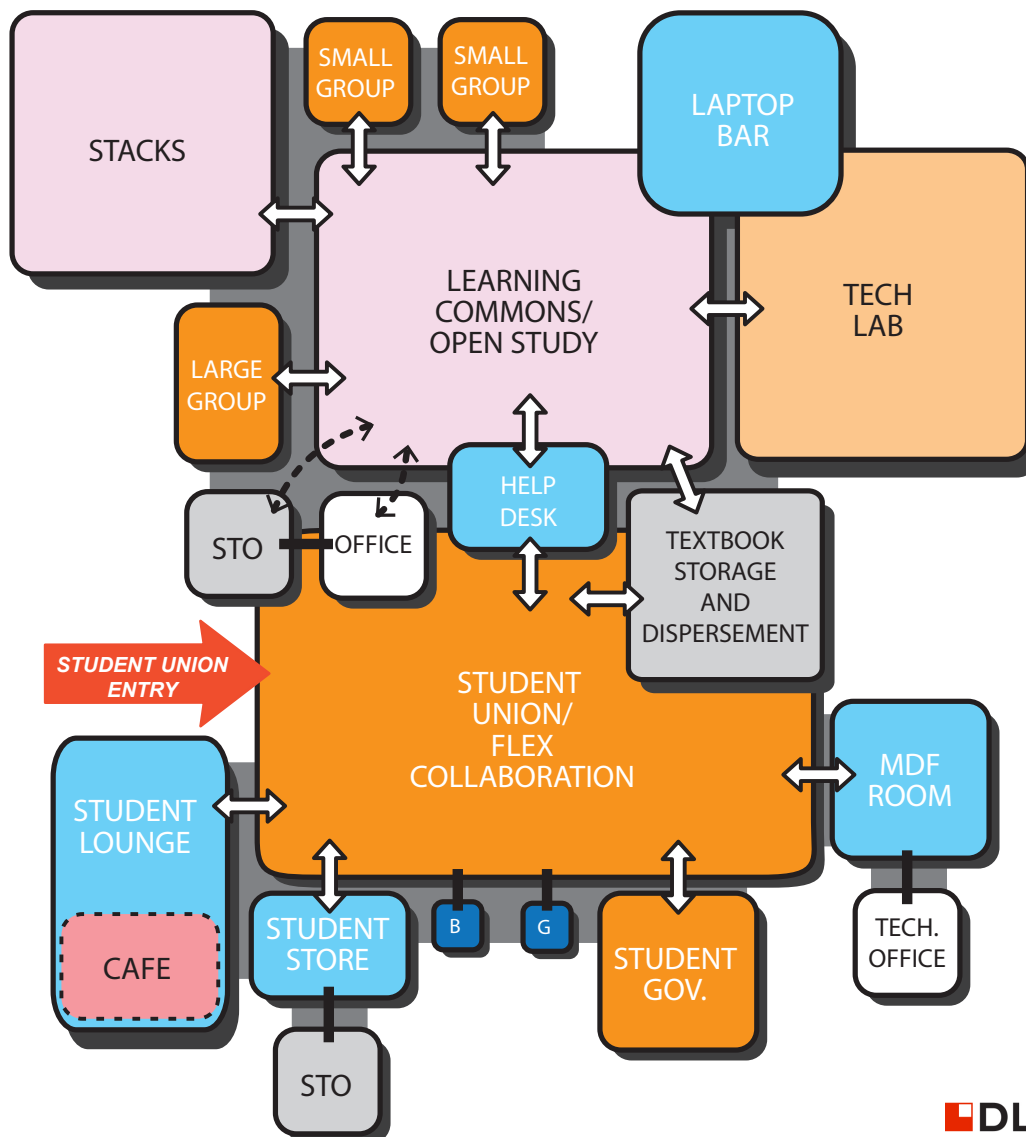
STUDENT UNION



DESCRIPTION/GOALS

- The Student Union Component is both an informal flexible / adaptive learning / gathering space for students as well as the informational research center for academic and career activities. Flexible meeting rooms and lounge space support various student group functions while a library function, and tech hub provide a more fixed staff-based support services to students.
- Welcoming student-focused aesthetic with a 'Starbucks' atmosphere with comfortable furniture throughout. College ready environment.
- Accessible during and after instructional hours
- Technology focused

ADJACENCY DIAGRAM



ROOM TYPE:

LEARNING COMMONS

SIZE: 150 sf

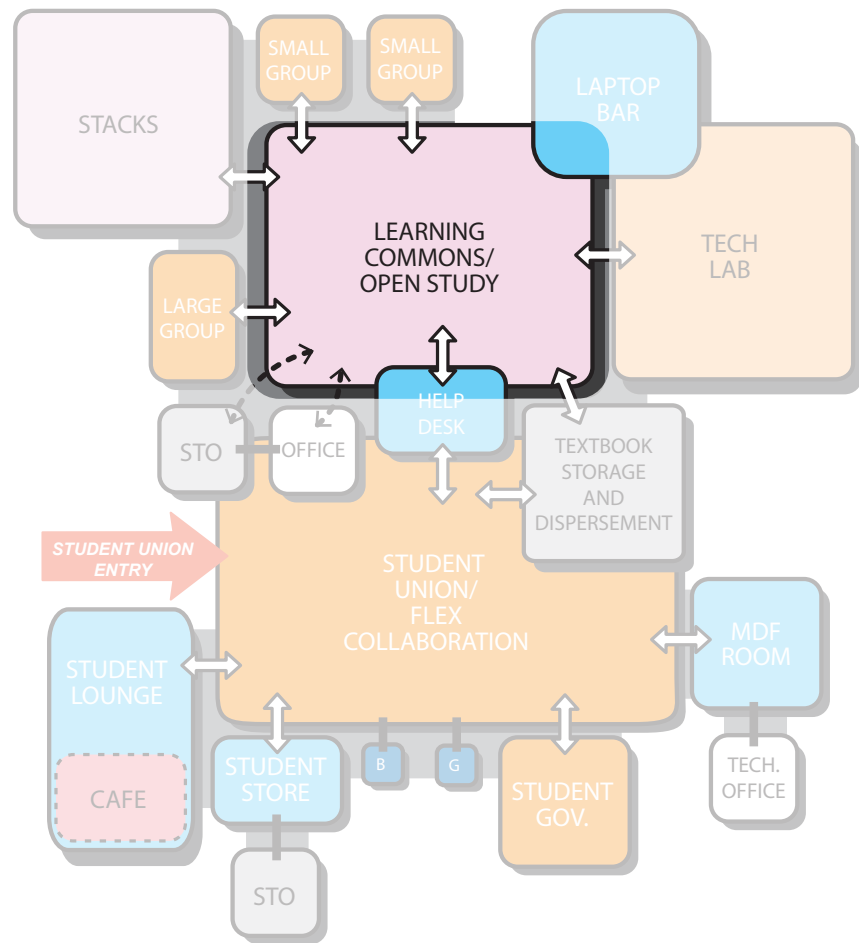
OCCUPANTS: 40

ACTIVITIES AND USES

Individual and group use by students and staff for general reading, research information access and retrieval via stacks, periodicals, and internet access, studying and tutoring. Activities to include use of computer carrels for research, general reading and open study, and technology assistance from on-site technology staff and research assistants.

SUPPORT SPACES

- Help desk / genius bar: 200 sf
- Laptop bar / charging stations: 300 sf
- Stacks: 1000 sf
- Open study: 1400 sf
- Storage: 200 sf
- Office: 100 sf



SPECIAL CONSIDERATIONS

- Ceiling material: acoustic ceiling tile, painted gypsum board, and/or painted exposed structure
- Ceiling height: varying
- Wall material: painted gypsum board, tackable wall surfaces for display
- Floor material: carpet tile, linoleum product, or sealed concrete
- Acoustics: per ANSI/ASA S12.60-2010/ Part 1 “American National Standard Acoustical Performance Criteria, Design Requirements and Guidelines for Schools,”
 - Part 1: Permanent Schools
- Flexible media center space with accommodations for relocation/reconfiguration of study seating and stacks areas
- Inviting, public/student-friendly atmosphere, learning commons, student union, Starbucks atmosphere

DOORS / WINDOWS

- Natural light and views desirable
- Acceptable for supervision from office/work support areas
- Skylights acceptable
- Ability to lock down door
- Keyless electronic lock access

FURNITURE / EQUIPMENT/ MILLWORK

- Shelving for approx. 14000 volumes print material (5-high shelving), 2200 volumes reference (3-high shelving), periodical display shelving for (40) titles.
- (6-8) 4-person rectangular work/study tables (24-32) students
- (2-3) groups of soft casual seating
- (1) 80” TV monitor display for presentations
- TV monitor wall-mount bracket
- Laptop computer cart (24 computers)
- Book theft detection system at entry doors
- Clock
- Secure storage/charging of laptop computers, locks (verify locations)
- Tackable wall surfaces and display cases for display of media materials and student work

BUILDING SYSTEM REQUIREMENTS

MECHANICAL

- Independent temperature control of area within flexible range set by district’s EMS system
- Room temperature sensor connected to campus EMS
- Fire alarm/suppression as required

PLUMBING

- N/A

ELECTRICAL / LIGHTING

- Wall and floor outlets for maintenance, general room and instructional technology needs
- Segregated power with transient voltage surge suppression
- Glare reducing lenses
- Lighting: per IES Lighting Handbook guidelines

TECHNOLOGY

- Intercom speakers
- Hardwired video outlet to permit taping of in-room activities, transmitting to on-campus or off-campus locations, and receiving video transmission from on-campus distribution system at TV monitor display
- Local area network connectivity for the charge desk, carrels, table, and computer workstations
- Wireless access capable for most computer communications/applications

ROOM TYPE:

TECHNOLOGY LAB

SIZE: 1200 sf

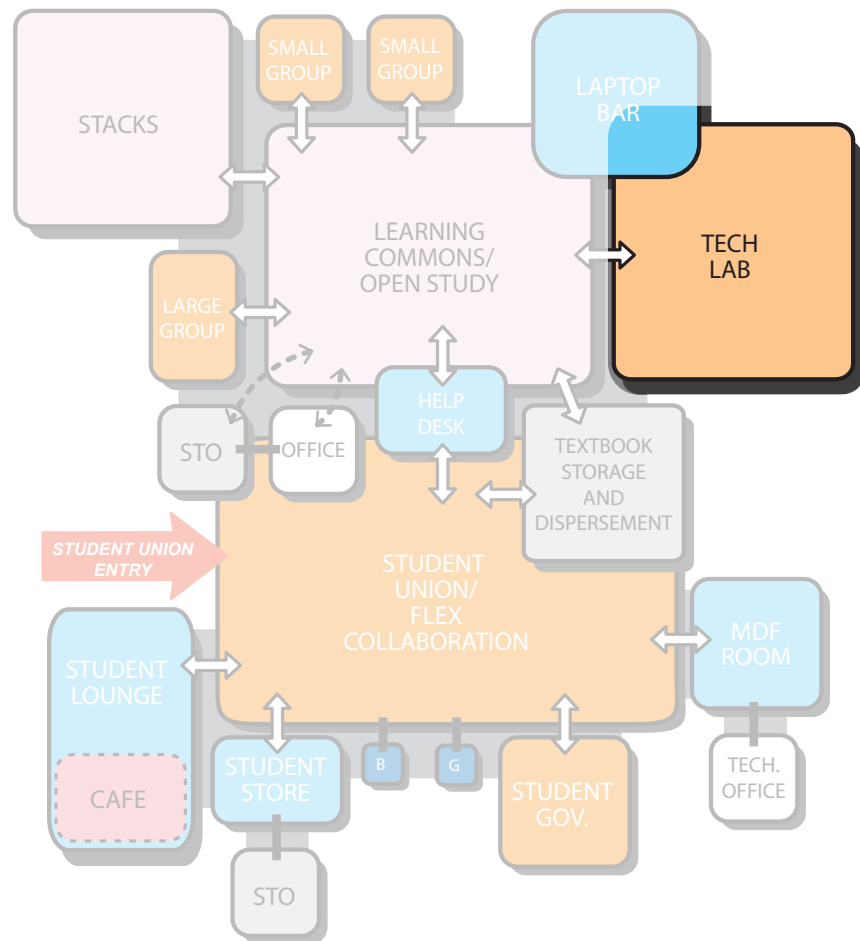
OCCUPANTS: 1 instructor, 29 students

ACTIVITIES AND USES

Computer supported technology instruction and exploration to include lecture, demonstration, discussion, individual and small group cooperative and collaborative learning.

SUPPORT SPACES

- None



SPECIAL CONSIDERATIONS

- Ceiling material: acoustic ceiling tile, painted gypsum board
- Ceiling height: 9'-0" min.
- Wall material: painted gypsum board and/or tackable wall surfaces for display
- Floor material: carpet tile or linoleum product
- Acoustics: per ANSI/ASA S12.60-2010/ Part 1 "American National Standard Acoustical Performance Criteria, Design Requirements and Guidelines for Schools,"
 - Part 1: Permanent Schools
- Inviting, public/student-friendly atmosphere
- Separation from reading area (acoustics) but a direct connection to the reading area or control

DOORS / WINDOWS

- Natural light and views desirable
- Acceptable for supervision from control/help desk
- Skylights acceptable
- Keyless electronic lock access

FURNITURE / EQUIPMENT/ MILLWORK

- (1) 80" TV monitor display
- TV display wall-mount brackets
- Printer station
- Instructor podium station
- Marker wall
- Clock
- (30) chairs
- (15) computer desks for two, workstations that hold C.P.U. below work surface

BUILDING SYSTEM REQUIREMENTS

MECHANICAL

- Independent temperature control of room within flexible range set by district's EMS system
- Room temperature sensor connected to campus EMS
- Fire alarm/suppression as required

PLUMBING

- N/A

ELECTRICAL / LIGHTING

- Wall and floor outlets for maintenance, general room and computer workstations, printer
- Segregated power with transient voltage surge suppression
- Glare reducing lenses
- Lighting: per IES Lighting Handbook guidelines

TECHNOLOGY

- Telephone/intercom handset, VoIP
- Intercom speakers
- Hardwired video outlet to permit taping of in-room activities, transmitting to on-campus or off-campus locations, and receiving video transmission from on-campus distribution system at TV monitor display
- Local area network connectivity for computer workstations and printer locations
- Wireless access capable for most computer communications/applications
- Speaker system with volume control

ROOM TYPE:

LARGE GROUP STUDY

SIZE: 200 sf

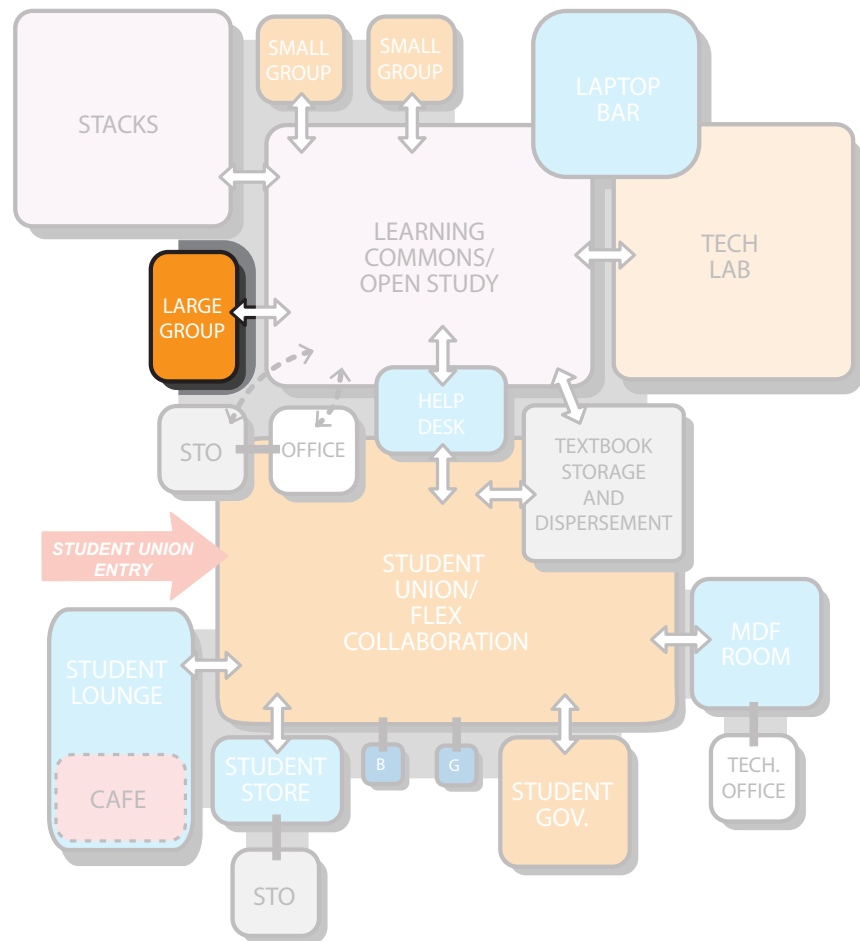
OCCUPANTS: 12

ACTIVITIES AND USES

Large group meeting and conference area for a variety of informal and formal student, faculty, and staff uses.

SUPPORT SPACES

- None



SPECIAL CONSIDERATIONS

- Ceiling material: acoustic ceiling tile
- Ceiling height: 9'-0" min.
- Wall material: painted gypsum board
- Floor material: carpet tile
- Acoustics: per ANSI/ASA S12.60-2010/ Part 1 "American National Standard Acoustical Performance Criteria, Design Requirements and Guidelines for Schools,"
 - Part 1: Permanent Schools

DOORS / WINDOWS

- Interior wall glazing desirable - supervision from control desk and/or office areas
- Natural light desirable
- Sidelight at door
- Window coverings as required for sun/glare control if there are exterior windows
- Skylights acceptable

FURNITURE / EQUIPMENT/ MILLWORK

- Clock
- Conference table and chairs for flexible seating configurations
- (1) 55" TV monitor display w/ wall-mount bracket

BUILDING SYSTEM REQUIREMENTS

MECHANICAL

- Independent temperature control of room within flexible range set by district's EMS system
- Room temperature sensor connected to campus EMS
- Fire alarm/suppression as required

PLUMBING

- N/A

ELECTRICAL / LIGHTING

- Outlets for general room and workstation use
- Clean, segregated power distribution with surge suppression
- Glare reducing lenses
- Lighting: per IES Lighting Handbook guidelines

TECHNOLOGY

- Data outlet for local area network connectivity
- Hardwired outlet to receive transmission from on-campus distribution system at TV monitor display
- Wireless access capable for most computer communications/applications
- Apple TV available for various network devices to connect to TV monitor display via iPad, Mac and Windows mirroring

ROOM TYPE:

SMALL GROUP STUDY

SIZE: 100 sf

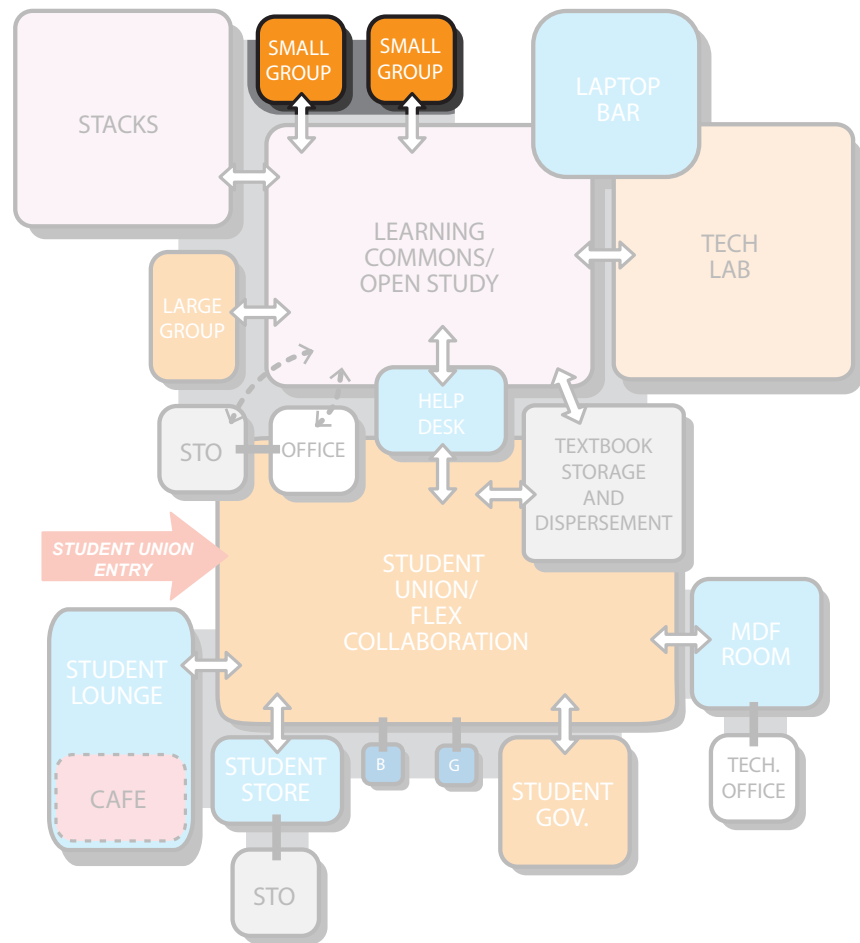
OCCUPANTS: 6

ACTIVITIES AND USES

Small group study / meeting room for students, faculty, and staff usage.

SUPPORT SPACES

- None



SPECIAL CONSIDERATIONS

- Ceiling material: acoustic ceiling tile
- Ceiling height: 9'-0" min.
- Wall material: painted gypsum board
- Floor material: carpet tile
- Acoustics: per ANSI/ASA S12.60-2010/ Part 1 "American National Standard Acoustical Performance Criteria, Design Requirements and Guidelines for Schools,"
 - Part 1: Permanent Schools

DOORS / WINDOWS

- Interior wall glazing desirable - supervision from control desk and/or office areas
- Natural light desirable
- Sidelight at door
- Window coverings as required for sun/glare control if there are exterior windows
- Skylights acceptable

FURNITURE / EQUIPMENT/ MILLWORK

- Clock
- Conference table and chairs for flexible seating configurations
- Marker wall

BUILDING SYSTEM REQUIREMENTS

MECHANICAL

- Independent temperature control of room within flexible range set by district's EMS system
- Room temperature sensor connected to campus EMS
- Fire alarm/suppression as required

PLUMBING

- N/A

ELECTRICAL / LIGHTING

- Outlets for general room and workstation use
- Clean, segregated power distribution with surge suppression
- Glare reducing lenses
- Lighting: per IES Lighting Handbook guidelines

TECHNOLOGY

- Data outlet for local area network connectivity
- Hardwired outlet to receive transmission from on-campus distribution system at TV monitor display
- Wireless access capable for most computer communications/applications
- Apple TV available for various network devices to connect to TV monitor display via iPad, Mac and Windows mirroring

ROOM TYPE:

TEXTBOOK STORAGE / DISPERSEMENT

SIZE: 900 sf

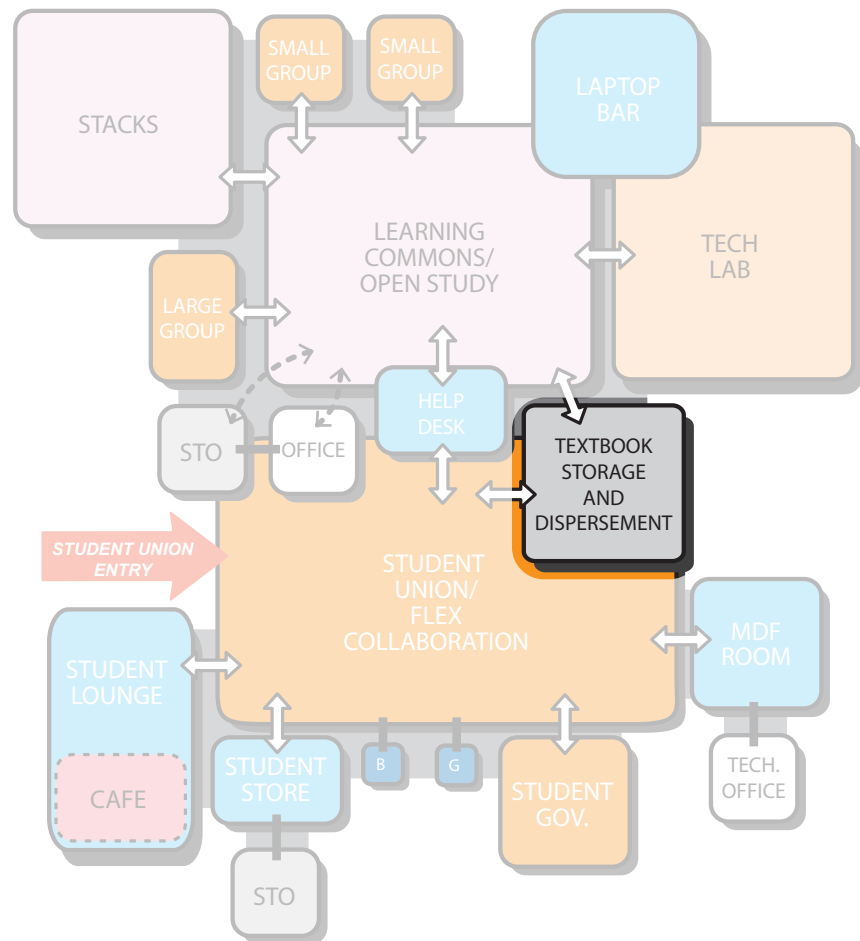
OCCUPANTS: 2 students, 3 staff

ACTIVITIES AND USES

Textbook storage for 30,000 volumes with staff work area and book dispersement counter.

SUPPORT SPACES

- None



SPECIAL CONSIDERATIONS

- Ceiling material: acoustic ceiling tile
- Ceiling height: 9'-0" min.
- Wall material: painted gypsum board
- Min. 55 STC rating between adjacent occupied spaces
- Floor material: vinyl composite tile or sealed concrete
- Acoustics: per ANSI/ASA S12.60-2010/ Part 1 "American National Standard Acoustical Performance Criteria, Design Requirements and Guidelines for Schools,"
 - Part 1: Permanent Schools

DOORS / WINDOWS

- Door with view panel
- Energy efficient windows with blinds
- Skylights acceptable

FURNITURE / EQUIPMENT/ MILLWORK

- (1) Staff workstation
- Fixed distribution counter with flexible workstation
- Tall shelving for 30,000 textbooks
- Storage cabinets (with locks)
- Clock

BUILDING SYSTEM REQUIREMENTS

MECHANICAL

- Independent temperature control of area within flexible range set by district's EMS system
- Room temperature sensor connected to campus EMS
- Fire alarm/suppression as required

PLUMBING

- N/A

ELECTRICAL / LIGHTING

- Outlets for general room and workstation use
- Clean, segregated power distribution with surge suppression
- Lighting: per IES Lighting Handbook guidelines

TECHNOLOGY

- Telephone / intercom handset, VoIP
- Intercom speaker with outlet
- Local area network connectivity
- Wireless access capable for most computer communications/applications

ROOM TYPE:
STUDENT STORE

SIZE: 200 sf

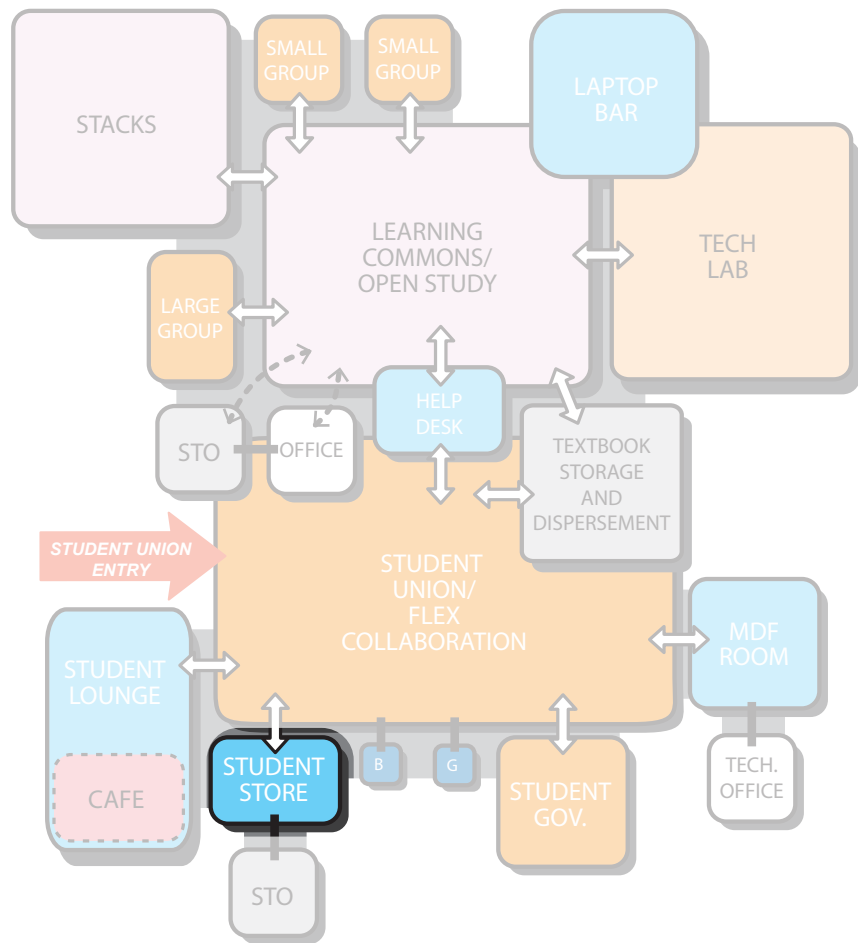
OCCUPANTS: 2-3 staff

ACTIVITIES AND USES

Sales of school supplies, school memorabilia, shirts, sweatshirts, etc., with close proximity to the bookkeeper.

SUPPORT SPACES

- Storage: 100 sf



SPECIAL CONSIDERATIONS

- Ceiling material: acoustic ceiling tile
- Ceiling height: 9'-0" min.
- Wall material: painted gypsum board
- Floor material: carpet tile, vinyl composite tile or sealed concrete
- Adjacent storage accessible through common door
- Acoustics: per ANSI/ASA S12.60-2010/ Part 1 "American National Standard Acoustical Performance Criteria, Design Requirements and Guidelines for Schools,"
 - Part 1: Permanent Schools
- Min. 40 STC with adjacent occupied spaces

DOORS / WINDOWS

- Roll-up counter door to exterior if applicable
- Skylights acceptable

FURNITURE / EQUIPMENT/ MILLWORK

- Service counter with chair/stools
- Storage shelving
- Cash register
- Locking product display cabinet
- Storage cabinets (with locks)
- TV monitor display
- TV monitor wall-mounting bracket
- Tackboard: (1) 4' x 4'
- Clock

BUILDING SYSTEM REQUIREMENTS

MECHANICAL

- Independent temperature control of area within flexible range set by district's EMS system
- Room temperature sensor connected to campus EMS
- Fire alarm/suppression as required

PLUMBING

- N/A

ELECTRICAL / LIGHTING

- Outlets for general room and workstation use
- Clean, segregated power distribution with surge suppression
- Lighting: per IES Lighting Handbook guidelines

TECHNOLOGY

- Telephone / intercom handset, VoIP
- Intercom speaker with outlet
- Local area network connectivity
- Wireless access capable for most computer communications/applications

ROOM TYPE:

STUDENT GOVERNMENT

SIZE: 300 sf

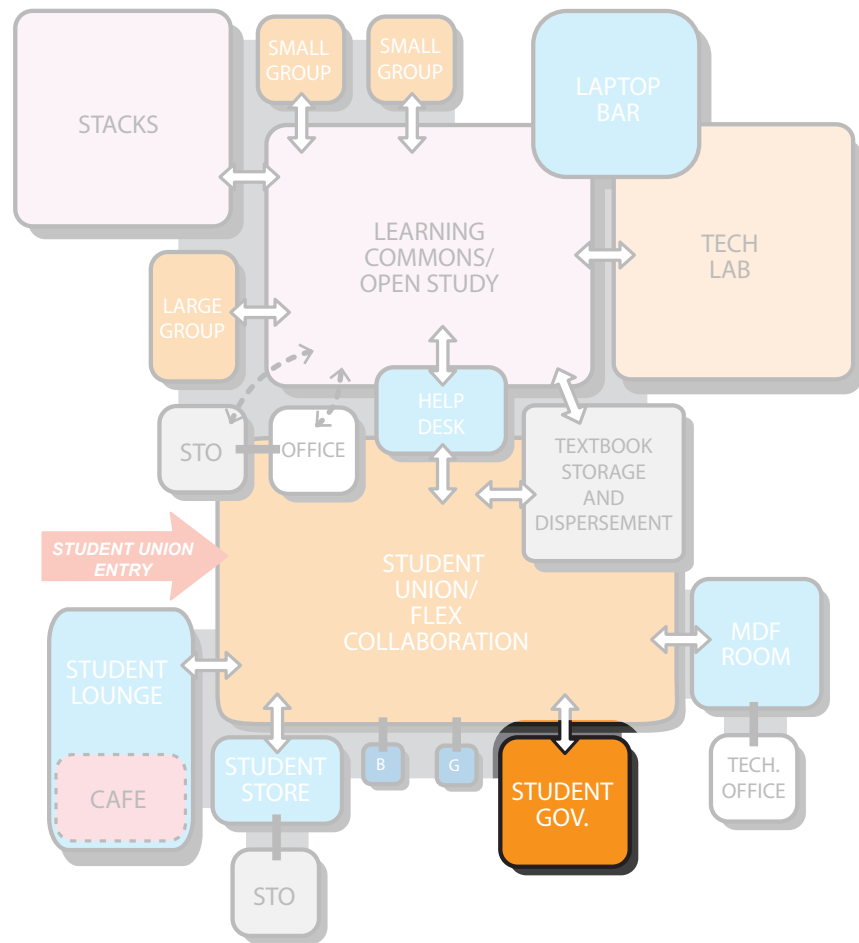
OCCUPANTS: 10

ACTIVITIES AND USES

Large and small group meetings for student government with limited storage for related supplies.

SUPPORT SPACES

- None



SPECIAL CONSIDERATIONS

- Ceiling material: acoustic ceiling tile
- Ceiling height: 9'-0" min.
- Wall material: painted gypsum board
- One wall tackable surface
- Floor material: carpet tile
- Acoustics: per ANSI/ASA S12.60-2010/ Part 1 "American National Standard Acoustical Performance Criteria, Design Requirements and Guidelines for Schools,"
 - Part 1: Permanent Schools
- Min. 55 STC rating between adjacent occupied rooms

DOORS / WINDOWS

- Door with view panel
- Energy efficient windows with blinds
- Skylights acceptable
- Large windows to exterior - natural light desirable

FURNITURE / EQUIPMENT/ MILLWORK

- Flexible tables and chairs for various arrangements
- Markerboard: (1) 4' x 12' or marker wall
- Tackboard: (2) 4' x 4'
- Storage cabinet with lock
- Clock

BUILDING SYSTEM REQUIREMENTS

MECHANICAL

- Independent temperature control of area within flexible range set by district's EMS system
- Room temperature sensor connected to campus EMS
- Fire alarm/suppression as required

PLUMBING

- N/A

ELECTRICAL / LIGHTING

- Outlets for general room and workstation use
- Clean, segregated power distribution with surge suppression
- Lighting: per IES Lighting Handbook guidelines
- Ability to dim room in response to video projection

TECHNOLOGY

- Telephone / intercom handset, VoIP
- Intercom speaker with outlet
- Hardwired video outlet to permit taping of in-room activities, transmitting to on-campus locations, and receiving video transmission from on-campus distribution system
- Local area network connectivity
- Wireless access capable for most computer communications/applications

ROOM TYPE:

CAFÉ

SIZE: 200 sf

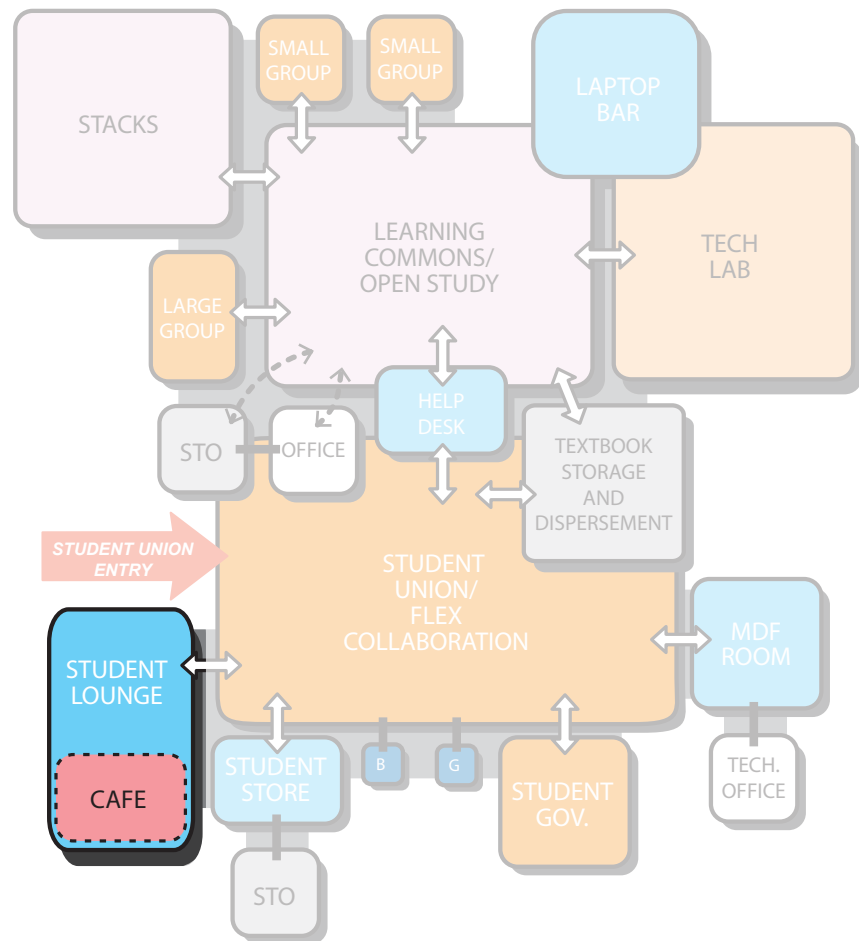
OCCUPANTS: 2 staff behind counter

ACTIVITIES AND USES

Small scale location for sale of food, beverages, and snacks.

SUPPORT SPACES

- Lounge: 500 sf



SPECIAL CONSIDERATIONS

- Ceiling material: moisture resistant acoustic ceiling tile
- Ceiling height: 9'-0" min.
- Wall material: painted gypsum board, fiber reinforced plastic wall panels or ceramic tile where required
- Floor material: porcelain tile
- Acoustics: per ANSI/ASA S12.60-2010/ Part 1 "American National Standard Acoustical Performance Criteria, Design Requirements and Guidelines for Schools,"
 - Part 1: Permanent Schools

DOORS / WINDOWS

- Roll-up counter window to adjacent lounge
- Energy efficient windows with blinds, natural light preferred
- Skylights acceptable

FURNITURE / EQUIPMENT/ MILLWORK

- Cash register
- Commercial dishwasher
- Cold deli storage / display
- Beverage display refrigerator
- Various small scale food prep/warming equipment
- Freestanding dry storage cabinets (with locks)
- TV monitor display
- TV monitor wall-mounting bracket
- Tackboard / info board
- Display shelving
- Clock

BUILDING SYSTEM REQUIREMENTS

MECHANICAL

- Independent temperature control of area within flexible range set by district's EMS system
- Room temperature sensor connected to campus EMS
- Fire alarm/suppression as required
- Room exhaust

PLUMBING

- Large commercial sink with hot and cold water
- Commercial dish-washing station
- Hook-up for independent ice maker

ELECTRICAL / LIGHTING

- Outlets for maintenance, general room, appliances at back counter and any large equipment
- Segregated power with transient voltage surge suppression
- Lighting: per IES Lighting Handbook guidelines

TECHNOLOGY

- Telephone / intercom handset, VoIP
- Intercom speaker with outlet
- Local area network connectivity for point of sale and TV monitor display
- Wireless access capable for most computer communications/applications

ROOM TYPE:

TECH OFFICE

SIZE: 100 sf

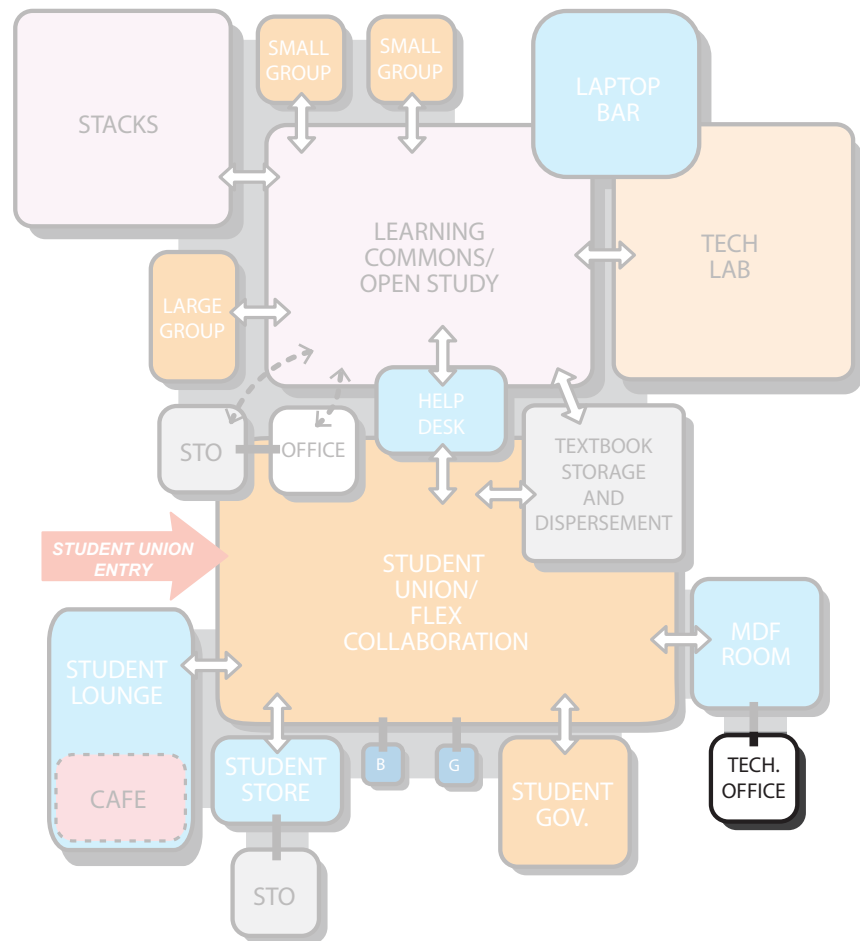
OCCUPANTS: 1 primary occupant, 2-3 guests

ACTIVITIES AND USES

Administrative location for technical support staff.

SUPPORT SPACES

- None



SPECIAL CONSIDERATIONS

- Ceiling material: acoustic ceiling tile
- Ceiling height: 9'-0" min.
- Wall material: painted gypsum board
- Floor material: carpet tile or vinyl composite tile
- Acoustics: per ANSI/ASA S12.60-2010/ Part 1 "American National Standard Acoustical Performance Criteria, Design Requirements and Guidelines for Schools,"
 - Part 1: Permanent Schools
- Min. 55 STC rating between office and adjacent teaching spaces

DOORS / WINDOWS

- Door with view panel
- Energy efficient windows with blinds
- Skylights acceptable
- Large windows to exterior - natural light desirable
- Ability to lock down door

FURNITURE / EQUIPMENT/ MILLWORK

- (1) administrative office desk and chair
- (1) computer workstation
- Storage cabinets i.e. credenza and 4-drawer file (with locks)
- Tackboard: (1) 4' x 4'
- Clock

BUILDING SYSTEM REQUIREMENTS

MECHANICAL

- Independent temperature control of area within flexible range set by district's EMS system
- Room temperature sensor connected to campus EMS
- Fire alarm/suppression as required

PLUMBING

- N/A

ELECTRICAL / LIGHTING

- Outlets for general room and workstation use
- Clean, segregated power distribution with surge suppression
- Lighting: per IES Lighting Handbook guidelines

TECHNOLOGY

- Telephone / intercom handset, VoIP
- Intercom speaker with outlet
- Local area network connectivity
- Wireless access capable for most computer communications/applications