slcc jordan campus health sciences center program

laura bayer architectural planning & programming / hfs architects

volume 1 of 2 | dfcm project 03047640 | 31 january 2004

Salt Lake Community College

salt lake community college

We have reviewed the program and warrant that it adequately represents our requests for a facility to fulfill part of our mission and programmatic needs. All appropriate parties at the agency have reviewed it for completeness and accuracy.

Judd Morgan *date*
Acting President

Robert Askerlund *date*
Director of Facilities

Gordon Storrs *date*
College Master Planner

Betty Bembenek *date*
Health Sciences Division Chair

Larry Kruger *date*
Community and Health Services Division Chair

Clifton Sanders *date*
Sciences Division Chair

David Stauffer, AIA *date*
Project Architect

utah state division of facilities construction and management

All appropriate parties at the agency have reviewed the program for completeness and accuracy and warrant that it complies with contract requirements.

Lynn Hinrichs *date*
Program Director

Salt Lake Community College

contents

slcc jordan campus health sciences center

Salt Lake Community College

volume 1

signature sheet i
participants ii
executive summary 1

procedure 5
- Participants 5
- Programming Team Organization 5
- SLCC Decision Team 5
- Involvement of Component Functions 5
- Involvement of Health Science Partners 5
- Community Involvement 6
- Prototype Development 6
- Document Review 6

overview 7
- History 7
- Existing Conditions 8
- Student Enrollment 21
- Need 22

site 25

total facility analysis 29
- Space Analysis 29
- Applicable Codes and Standards 33
- Code Review 35
- Space by Floor, 3 Story Scenario 39
- Space by Floor, 4 Story Scenario 42
- Classroom Utilization, Fall 2003 47
- Class Lab Utilization, Fall 2003 53
- Computer Lab Utilization, Fall 2003 59

component departments 65

individual space sheets 111
- Biotechnology Technician 111
- Medical Assisting 139
- Medical Laboratory Technician 167
- Nursing 175
- Occupational Therapy Assistant 205
- Pharmacy Technician 243
- Physical Therapist Assistant 257
- OTA/PTA Clinic 283
- Radiologic Technology 303
- Radiologic Specialties 323
- Surgical Technology 347

volume 2

- Health Sciences Administration 367
- Health Sciences Advising 397
- Health Sciences Assessment 411
- Student Wellness/Community Service Center 423
- Library / Media Center 459
- General Science 489
- Auditorium / Lecture Hall 523
- Commons 529
- Building Support 559

area summary 591
building relationship diagram 605
design review 613
estimated construction cost 625

appendix 631
- **structural program** 631
- **mechanical program** 635
- **electrical program** 641
- **instructional technology program** 647
- **department equipment requests** 653
- **cadaver lab requirements** 675

Salt Lake Community College

participants

slcc jordan campus health sciences center

Salt Lake Community College

slcc decision team

John Anjewierden
Executive Dean, Jordan Campus

Robert Askerlund
Facilities Director

Betty Bembenek
Health Sciences Division Chair

Larry Kruger
Community and Health Services Division Chair

Judd Morgan
President

Don Porter
Vice President for Business Services

Clifton Sanders
Sciences Dvision Chair

David Stauffer, AIA
Project Architect

Gordon Storrs
Master Planning Coordinator

utah state division of facilities construction and management

Lynn Hinrichs
Program Director

slcc community partners

iasis

Brianne W. Swilley — *CEO, Jordan Valley Hospital*

ihc

Steve Dibble — *Project Architect*

Paul Jackson

John Rich — *Director of Facilities*

Greg Spencer

Leslie — *Administrative Assistant*

st. mark's hospital

Susan Nielson Lindberg — *Education / Clinical Recruiter*

slcc key team members

	program/ department
Dorothy Alley	*Jordan Campus Library*
Joyce Barra	*Nursing*
Tim Beagley	*Biology*
Kathy Bruner	*Occupational Therapy Assistant*
Karen Brown	*Medical Laboratory Technician*
Dianna Carroll	*Medical Assisting*
Lee Anne Clark	*Administrative Assistant*
Melanie Birdsong Cook	*Biology*

continued next page

Salt Lake Community College

participants
slcc jordan campus health sciences center

Salt Lake Community College

Richard Daines	*Library*
Larry Dorrell	*Dean of Learning Resources*
Tami Goetz	*Biotechnology Technican*
Dave Hertz	*Director, Student Auxiliary Services*
Christine Iltis	*Biology*
Jennifer James	*Health Sciences Admissions*
Larry Landward	*Acting Dean, Student Services*
Ray Liddell	*Surgical Technology*
Sheri Mills	*Health Sciences Admission Specialist*
Casey Moore	*ITT*
Diana Ploeger	*Physical Therapist Assistant*
Jane Rudolph	*Biology*
Michelle Smeltzer	*Nursing*
Bill Tanner	*Biology*
Sharlene Thomas	*Administrative Assistant*
Melissa Tillack	*Biolgoy*
Mike Thurman	*Development*
Jana Tucker	*Medical Assisting*
Lisa Wood	*Radiologic Technology*

resource documents

Jordan Campus Master Plan. HFS Architects/ Laura Bayer/EDAW. March 1996.

Jordan Campus Design Guidelines. HFS Architects/Laura Bayer/EDAW. May 1997.

Fehr and Peers Associates. *Jordan CampusTransportation Study*, 1997.

planning team

Barry Smith, AIA *HFS Architects*	*Project Coordinator* *Project Estimator*
Laura Bayer *Architectural Planning & Programming*	*Project Programmer*
Mark Harris *Reaveley Engineers & Associates*	*Structural Engineer*
Neil Spencer *Spectrum Professional Engineers*	*Mechanical Engineer*
David Weseman *Spectrum Professional Engineers*	*Electrical Engineer*
Gerald Nelson *Spectrum Professional Engineers*	*Technology Engineer*
Constantine Antoniades *Payette Associates*	*Medical Review*

Salt Lake Community College

executive summary

slcc jordan campus health sciences center

Salt Lake Community College

health sciences at slcc

Salt Lake Community College has maintained a commitment to offering its students instruction in the health sciences since 1948. The College currently provides 2-year AAS degrees in Biotechnology, Nursing, Assistant, Occupational Therapy Assistant, Physical Therapist Assistant, and Radiologic Technology programs. Students can also obtain a one-year certificate in Medical Assistant, Medical Administrative Assistant, and Surgical Technology programs.

Since 1996, student enrollments in these programs have increased dramatically and consistently. With the support of community partners, the Registered Nursing program has increased by 50% in the past two years. In February 2003 other health sciences programs reported increases from 13% to 74% over 1996 levels. Several hundred students who have been accepted into the Nursing program are currently waiting for class space; by Summer 2003, Nursing classes were fully enrolled through Fall 2004. Radiologic Technology has a 2-year waiting period. Community demand for physical therapist assistants exceeds the number of graduates the program can provide in its existing lecture and lab space.

Responding to community demand for health sciences professionals, Salt Lake Community College is developing additional programs including radiologic specialties (MRI, Ultrasound, Computed Tomography, and Mammography), a Pharmacy Technician program, and a Pre-Biotechnology program.

existing conditions

Existing facilities limit current offerings and prevent the College from growing to meet the demand for health sciences courses. Health sciences programs are scattered across three campuses. Many must improvise in spaces that were never intended to house technology-intensive programs. Some are located in temporary sites made available by community health-care partners. Facilities for science-related prerequisite courses are equally scarce.

The quality of existing facilities is as great a concern as the lack of space. With the exception of Dental Hygiene and Biotechnology, which occupy recently constructed space on the Jordan Campus, most programs are operating in “make-do” facilities that have little resemblance to the clinical environments where students will eventually practice. One of the primary goals of applied technology education is to give students “hands-on” training that “aligns with industry expectations.” Most of the College’s current health sciences students unfortunately must learn on inoperative obsolete equipment in spaces that look like what they are -- converted classrooms, closets, and corners. Their peers in institutions with more appropriate facilities practice their skills in simulated environments that are indistinguishable from the real clinical setting. In an age when it is possible for students in remote classrooms to observe real-time procedures occurring in community hospitals, most of SLCC’s current health sciences classes have no access to Internet, satellite transmission, or EDNET.

community partners

Salt Lake Community college has actively pursued partnership opportunities with health-care providers, including Iasis, IHC, St. Marks Hospital, AHEC, ARUP,

Salt Lake Community College

and the University of Utah. The College has ongoing partnership programs with neighboring Jordan Valley Hospital, Pioneer Valley Hospital, Cottonwood Hospital, the University of Utah Medical Center, HCR ManorCare, and many others. Medical professionals are eager to supervise and teach at the College; local institutions have offered to make their own in-service education materials and procedure videos available via satellite to the health sciences programs. Jordan Valley Hospital, which is expanding from a 50-bed community hospital to a 200-bed facility across the street from the Jordan Campus, has expressed strong interest in expanding the partnership programs.

jordan campus master plan

The Jordan Campus Master Plan outlines the phased development of the campus and its supporting infrastructure. This project, to be located south and west of the LDS Institute and southeast of the High Tech Center (see site drawing), will include development of additional parking, extension of the central campus plaza, access roads, and utility tunnel, and development of associated landscaping. The Master Plan and Design Guidelines impose some limitations on the building, which is envisioned as a 3- or 4-story structure with the lower level partially below grade, placed on an angled grid to take advantage of solar orientation.

health sciences center program overview

The proposed Health Sciences Center will enable the College to concentrate its health sciences offerings in a single location where they can benefit from contact with one another. Health care professionals work in a team environment, and physical proximity will enable these programs to collaborate and share resources. Only those functions that provide direct support to the health sciences programs and students will be included in the new facility.

The Health Sciences Center will provide space for eight existing programs (Biotechnology Technician, Medical Assistant, Medical Administrative Assistant, Nursing, Occupational Therapy Assistant, Physical Therapist Assistant, Radiologic Technology, and Surgical Technology), for the Medical Lab Technician program currently operated at the University of Utah, and for 6 programs currently in development (Pre-Biotechnology, Pharmacy Technician, Ultrasound, MRI, Computed Tomography, and Nuclear Medicine).

To support these programs, the new Health Sciences Center will include laboratory, lecture, and prep space for prerequisite biology courses, a student health center/ community service learning project, the admissions and records group that handles health sciences, the division administrative offices, and a modest exercise/wellness area. To avoid duplication of facilities, those functions used by multiple programs (including sterile prep areas, adjunct offices and professional consultation rooms, conference rooms, computer labs, locker/shower/changing rooms, and x-ray equipment) will be clustered and shared. The Jordan Campus Library will relocate to the Health Sciences Center and be enlarged to serve the growing campus

Salt Lake Community College

population and the special needs of health sciences.

This will free badly needed classroom space at the Redwood and South Campuses and library space in the Jordan Campus High Tech Center for reassignment.

Because the College encourages high utilization of all facilities, classrooms and other general-purpose spaces in the Health Sciences Center will be available for scheduling wherever possible when the primary users do not require them.

program uncertainties and risks

The programming effort has verified the need for a health sciences facility, the functions to be housed in the center, and the order of magnitude of the space needed to support these functions. Programmers do not anticipate any significant change in the scope of this listing. As the program is refined, however, the following issues require further consideration.

- Preliminary site analysis was based on a 3-story building of approximately 114,000 gsf. The actual programmed area will be slightly less than 150,000 gsf. A three-story facility of this size would fit on the proposed site, and the program includes an analysis of the relationships in a three-story facility.

  For the purposes of preliminary estimates, however, this program assumes that the facility will be a four-level structure with the lower level below the plaza grade and the upper level within the sloped roof area. This approach, which is permitted by the campus Master Plan, will preserve open space on the site, avoid conflict with existing sewer lines, and minimize long corridors within the building.

- Equipment – particularly medical equipment for simulated care labs and the computer equipment required for "smart" classrooms – will be a major component of project costs. This program includes preliminary outlines of equipment needed, but the rapid pace of technological change dictates that these requests be carefully reviewed at the time of design. Community partners in the medical community have expressed willingness to donate equipment for this facility, but the specific equipment that may be available cannot be identified until the design and construction schedule is finalized.

- The preliminary program quantifies short-term needs. Most health sciences functions anticipate continued growth beyond the next ten years, but have not yet quantified this growth. Smaller departments will probably be able to meet their expansion needs in the short term by scheduling additional sections in their programmed space, but if larger programs that are already running multiple cohorts experience significant future expansion, the proposed facility may not be adequate to accommodate them.

- The Jordan Education Center facility and the High Tech Center have used more boiler/chiller capacity than anticipated when preliminary development was completed for the Health Sciences

Center. As a result, additional campus infrastructure will have to be developed. The extension of the utility tunnel and central plaza to serve the expansion of the Jordan Education Center will have to be coordinated with the design of the Health Sciences Center to avoid duplication of efforts and disruption of plaza construction.

- The program cost estimate for this project was completed in January 2004. By July 2004, when the final copies of the document were printed, the Salt Lake area had experienced a 30% increase in the cost of products containing steel, as well as significant increases in concrete and plastic costs. Therefore it is recommended that anticipated project costs be carefully reviewed and revised at the time of funding and, if necessary, the budget be increased to accommodate changes in the construction climate.

- The program provides preliminary identification of instructional areas where biohazard waste materials will be produced and spaces where chemicals and medical gases may be used. Instructors and instructional approaches change, however, and it is recommended that the needs for these types of potentially hazardous materials be carefully reviewed at the time of design to verify that all relevant code requirements will be met and that spaces are equipped to support the medical technology that will be used in the building for instructional purposes.

program summary

- **space type:** educational facility
- **total area:** 146,694 gsf
- **assignable area:** 106,219 nsf
- **efficiency:** 72%
- **cost date:** January 2004
- **anticipated construction cost:** $19,972,214

- **additional cost for new campus chiller and cooling tower:** $954,600

Salt Lake Community College

participants

HFS Architects / Laura Bayer Architectural Planning and Programming was selected to provide programming services for new health sciences education facilities at Salt Lake Community College Jordan Campus and Dixie College. The programming process has involved dozens of individuals from the College, its health-care industry partners, and the surrounding communities. Those who contributed most to the development of the document are identified on pages v -vii.

programming team organization

Because the two projects needed to proceed in tandem to complete programming in accordance with the legislative schedule, HFS organized an independent team for each project. The Salt Lake Community College team was headed by Laura Bayer, principal of Architectural Planning and Programming.

slcc decision team

Salt Lake Community College identified a Decision Team, headed by College Planner Gordon Storrs, that would have administrative responsibility for the programming process. The team included the following individuals:

John Anjewierden, Executive Dean, Jordan Campus
Bob Askerlund, Facilities Director
Laura Bayer, Project Programmer
Betty Bembenek, Division Chair, Health Sciences
Lynn Hinrichs, Project Manager, DFCM
Larry Kruger, Division Chair, Community Health Services
Judd Morgan, SLCC President
Don Porter, Vice President for Business Services
Clifton Sanders, Division Chair, Sciences
David Stauffer, Project Architect
Gordon Storrs, Campus Master Planner

The decision team was given a mandate to review emerging information, identify areas of concern, and make final decisions about the building program. Participants agreed to rely on consensus-based decision-making, rather than a simple majority vote, to resolve project issues.

involvement of component functions

The programming process involved ten existing health sciences programs and a group of related functions that support those programs. Planners interviewed the coordinators of each of these programs and reviewed the emerging document with them throughout the programming process.

Biotechnology Technician
Medical Assisting
Medical Administrative Assisting
Medical Lab Assisting
Nursing (RN)
Occupational Therapy Assistant
Pharmacy Technician
Physical Therapist Assistant
Radiologic Technology
Surgical Technology.

involvement of health sciences partners

The College is currently exploring a range of partnering and donor opportunities that may enhance the educational experience provided by the proposed facility. Partnering allows the College to offer students a variety of clinical opportunities as part of their education and helps to create a seamless transition to the work force for graduating students.

SLCC health sciences programs have active partnerships with all of the region's major medical centers, including IHC, IASIS, St.. Mark's, and the University of Utah. These

partners provide clinical opportunities for health sciences students, as well as making space and equipment available for SLCC programs. Jordan School District, which operates a facility at the Jordan Campus, is also building a new facility for the New Century High School, which will focus on biotechnology, engineering, and nanotechnology. This new high school will be completed in two years. SLCC's health sciences programs will coordinate with the school district. The two may share some facilities, but SLCC programs should not be dependent upon school district facilities for essential space and services.

community involvement

The communities of West Jordan, South Jordan, Bluffdale, and have been involved in the programming process and support the development of the new facility.

prototype development

To assist the in cost estimating process, the team developed a prototype drawing that assumed a four-story scheme for the project. These drawings are not included in the programming document, since they were generated only to provide information for cost estimators.

document review

The final program draft was reviewed by Payette Associates. Reviewers' comments have been summarized in this document, beginning on page 609, with a list of recommended actions.

Salt Lake Community College

health sciences at slcc

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Radiologic Technology has a 2-year waiting period. Community demand for Physical Therapist Assistants exceeds the program's capacities to produce graduates with its existing lecture and lab space.

The health sciences programs place virtually all of their graduates, most in the Wasatch Front area. Surgical Technology, for example, has placed more than 99% of its students in recent years. There is also high demand for students trained in related fields, such as Radiologic Specialties, not currently offered at Salt Lake Community College.

Responding to community demand for health sciences professionals, Salt Lake Community College is developing additional programs including radiologic specialties (MRI, Ultrasound, Computed Tomography, andMammography), a Pharmacy Technician program, and a Pre-Biotechnology program.

For nearly six decades, the College has trained students to work in health care and related disciplines in Utah's communities. With the development of a new facility designed for health science education, SLCC looks forward to providing graduates that will meet community needs in the rapidly evolving allied health science professions of the 21st century.

Salt Lake Community College

existing conditions

Existing facilities limit current offerings and prevent the College from growing to meet the demand for health sciences courses. Health sciences programs are scattered across three campuses. Many must improvise in spaces that were never intended to house technology-intensive programs. Some are located in temporary sites made available by community health-care partners. Facilities for science-related prerequisite courses are equally scarce.

The quality of existing facilities is as great a concern as the lack of space. With the exception of Dental Hygiene and Biotechnology, which occupy recently constructed space on the Jordan Campus, most programs are operating in “make-do” facilities that have little resemblance to the clinical environments where students will eventually practice. One of the primary goals of applied technology education is to give students “hands-on” training that “aligns with industry expectations.”

Most of the College’s current health sciences students unfortunately must learn on inoperative obsolete equipment in spaces that look like what they are -- converted classrooms, closets, and corners. Their peers in institutions with more appropriate facilities practice their skills in simulated environments that are indistinguishable from the real clinical setting. In an age when it is possible for students in remote classrooms to observe real-time procedures occurring in community hospitals, most of SLCC’s current health sciences classes have no access to Internet, satellite transmission, or EDNET.

overview

slcc jordan campus health sciences center

existing conditions
biotechnology technician

Salt Lake Community College

overview

slcc jordan campus health sciences center

existing conditions medical assisting

Salt Lake Community College

existing conditions nursing (rn)

overview

slcc jordan campus health sciences center

Salt Lake Community College

overview

slcc jordan campus health sciences center

existing conditions
occupational therapy assitant (ota)

Salt Lake Community College

existing conditions
pharmacy technician

overview
slcc jordan campus health sciences center

Salt Lake Community College

overview

slcc jordan campus health sciences center

existing conditions
physical therapist assistant (pta)

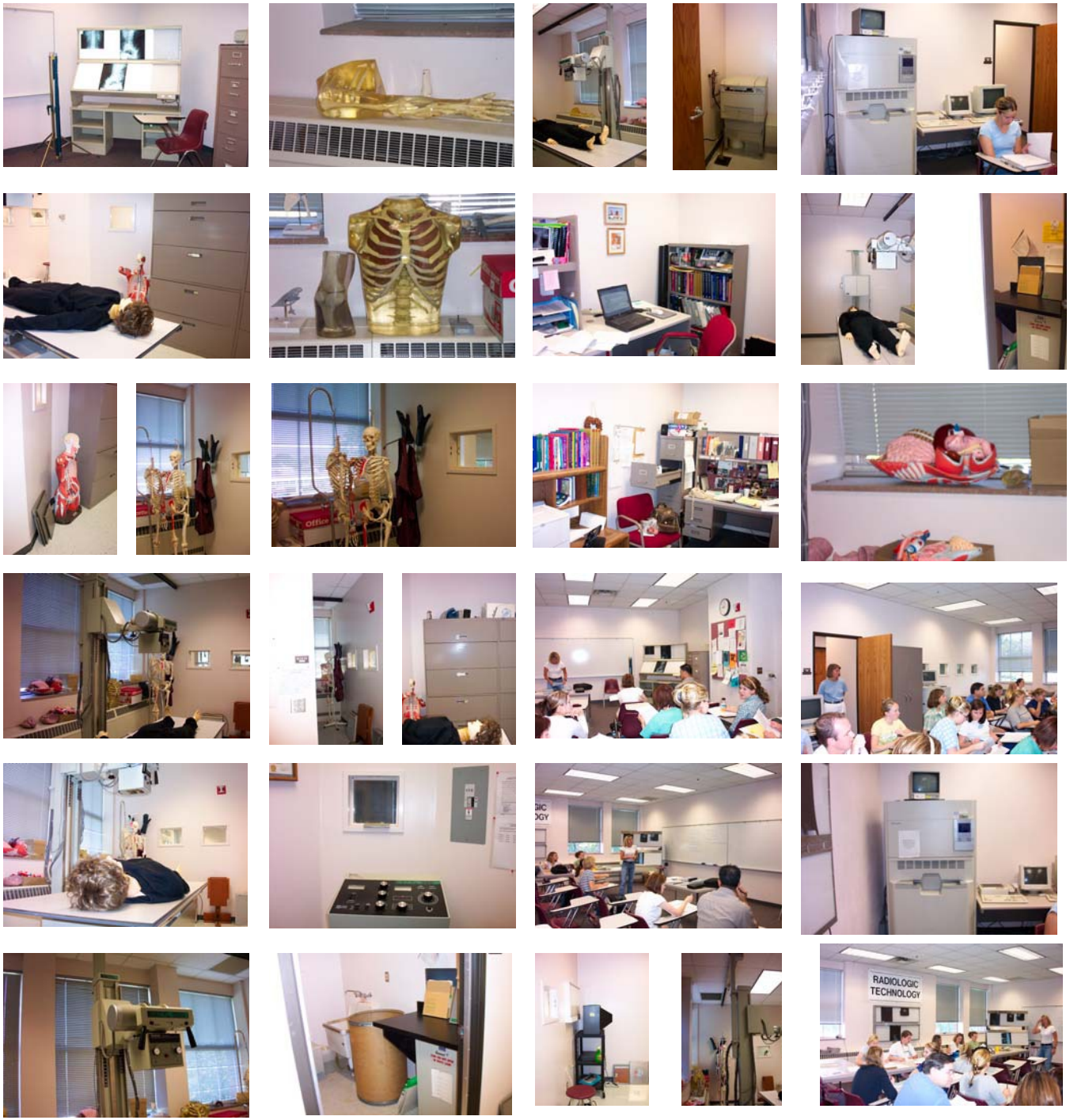
Salt Lake Community College

overview

slcc jordan campus health sciences center

existing conditions radiologic technology

Salt Lake Community College

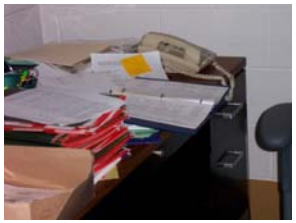


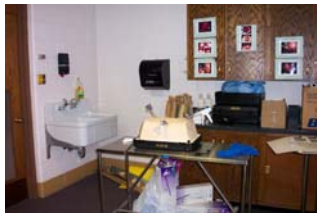
overview

slcc jordan campus health sciences center

existing conditions surgical technology

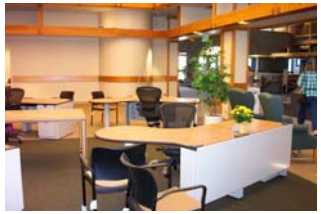
Salt Lake Community College

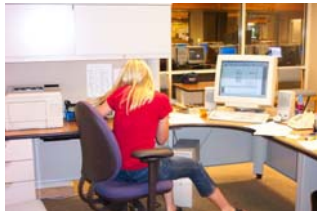




slcc jordan campus health sciences center

Salt Lake Community College



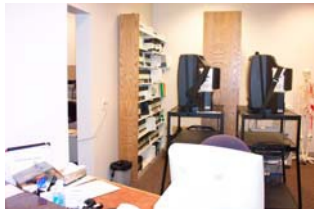


existing conditions
library / media center

overview

slcc jordan campus health sciences center

Salt Lake Community College

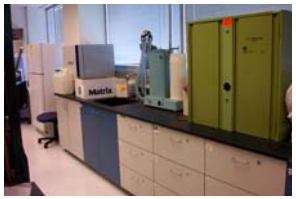


existing conditions biology

overview

slcc jordan campus health sciences center

Salt Lake Community College

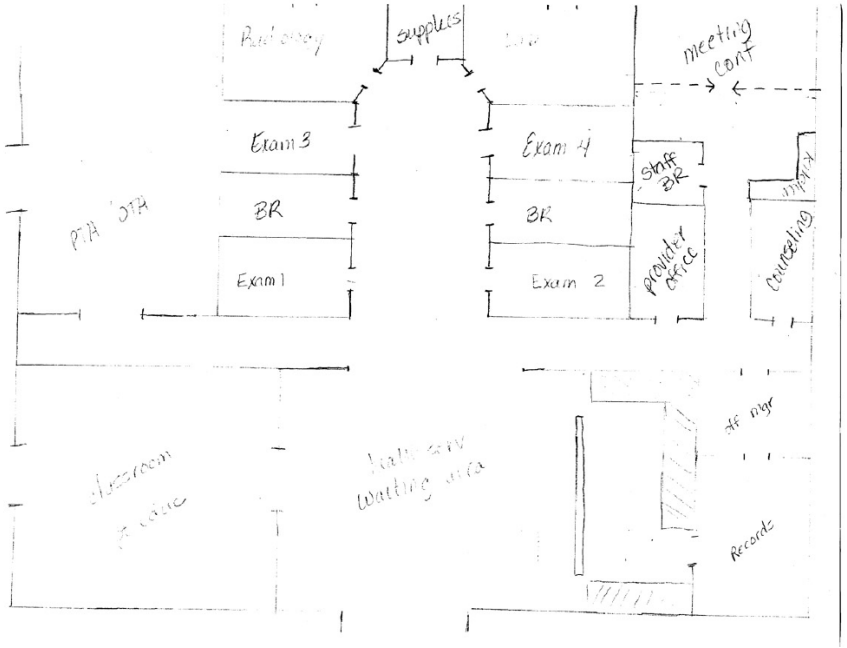


overview

existing conditions
wellness center, redwood campus

slcc jordan campus health sciences center

Salt Lake Community College



slcc jordan campus health sciences center

Salt Lake Community College

program	total students fall 2003 (headcount)	total students fall 2003 (fte)	total students anticipated in 2015 (headcount)	required student / faculty ratio for lab classes	required student / faculty ratio for lecture classes	full-time faculty anticipated for 2015	adjuncts per semester	notes
Biotechnology Technician	80	38	104	20:1		2	10	does not include high school students in partnership programs
Medical Assisting	50	66	75	16:1	30:1	3	5	
Medical Administrative Assisting	20	20	50			4		
Medical Laboratory Technician	48		48			1		labs currently at U of Utah
Nursing (RN)	420		450		10:1	19	8	
Occupational Therapy Assistant	48		48		24:1	2	0	
Pharmacy Technician	0		60			1		new program
Physical Therapist Assistant	47	58	70		14:1	2	5	does not include 56 pre=PTA students
Radiologic Technology	105		120			3		includes evening session
Radiologic Specialties	0	0	60			3		new programs
Surgical Technician	17	17	17		10:1	1	1	
TOTALS	835					41	29	

Salt Lake Community College

demand for health sciences

Nationwide, the American Hospital Association (AHA) reports that America's hospitals need 126,000 RNs just to fill currently vacant slots. Between 1996 and 2000, the number of nurses per capita declined by 2%. The Mountain Region had one of the highest rates of decline. The Health Resources and Services Administration (HRSA) projects that by 2010 the number of available nurses will fall 20% below the national need. The AHA has characterized this shortage as "the most critical manpower problem facing hospitals across America," a shortage that "threatens to affect every American needing medical care."

Like the nation as a whole, Utah lacks the qualified health science professionals required to meet the medical needs of its population. The entire state has a nursing shortage, and one in four Utahns, according to data provided by the HRSA, now lives in an area with a shortage of health professionals. The agency also notes that Utah ranks 36th nationally in the number of pharmacy technicians per capita, 39th in home health aides, and 48th in nurses aides.

In December 2002 the *Deseret News* noted that Utah had "the third-most severe shortage" of nurses in the country. According to the General Accounting Office, Utah ranks 31% below the national average in number of nurses per capita. At a hearing of the Higher Education Appropriations Subcommittee 3 February 2003, the Chair of the Utah Nursing Leadership Forum reported that, by conservative estimates, Utah will need an additional 1,500 new registered nurses by 2010. A report on "The Health Care Workforce in Ten States" prepared by the National Conference of State Legislatures in 2001 concluded that "most state officials believe that the training capacity is not up to meeting the demand for health professionals."

The state also reports shortages of nurse practitioners, physician assistants, pharmacists, and other allied health professionals. The *Salt Lake Tribune* has documented the demand for nurses, x-ray technicians, medical assistants, laboratory technicians, pharmacy technicians, respiratory therapists, medical coders, radiologic technologists, biotechnology technicians, and others in the health professions (30 December 2002, 3 May 2003, 4 January 2004).

local and national trends

The current shortage of medical personnel, anticipated regional growth, expansion of hospital facilities, Utah's high birth rate, and the aging of the baby-boom generation will all exacerbate the need for qualified practitioners to fill the void in the state's hospitals, clinics, and care facilities. State Health Workforce Profiles prepared by HRSA anticipate that the Utah population over 65 will grow by 104%, nearly double the anticipated national growth of 53%.

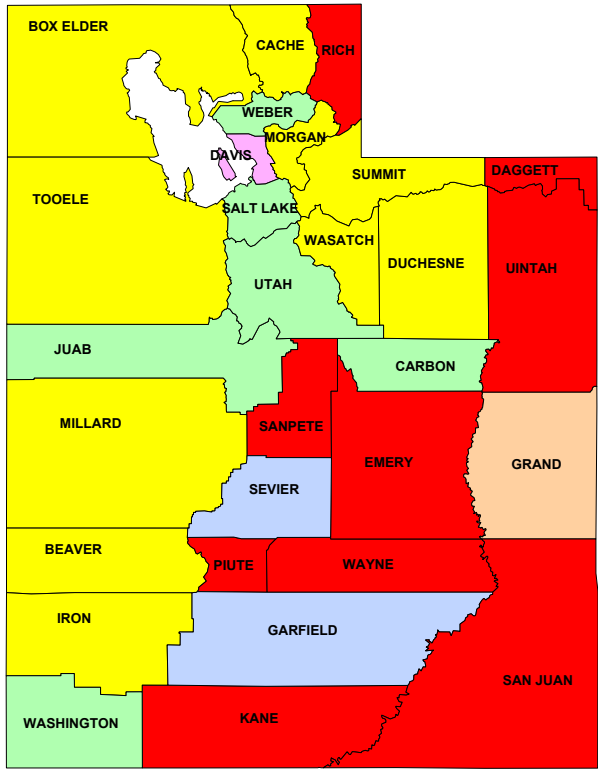
Staffing shortages, in turn, exacerbate the problem by creating conditions that encourage nurses and other health care professionals to leave the field. A 2001 survey conducted by the Federation of Nurses and Health Professionals found that half (50%) of currently employed RNs "are

thinking about leaving the field for reasons other than retirement."

Utah's current nursing shortage, as the American Association of Colleges of Nursing noted, will "intensify as baby boomers age and the need for health care grows." The state has 1,000 jobs for hospital nurses that it cannot fill, and long-term care facilities report 24% of existing nursing positions are unfilled. Several major new hospital facilities will open in the next five years, creating demand for an additional 375 nursing positions, as well as additional positions for related health care professionals. HRSA projects, for example, that demand for home health aides will increase 69.1% in the decade from 1996 to 2006.

As the *Deseret News* reported in December 2002 and the Utah Statewide Nursing Initiative noted in a report to the 2003 legislature, the average age of registered nurses in the state is also rising (47), graduation rates for nursing schools are dropping, and many nurses have retired or left the work force. Unlike past shortages, the Initiative concluded, this "severe and critical shortage. . . will not correct itself."

Hospitals are not the only area where shortages of nurses threaten patient care. As the *Deseret News* reported, "The Joint Commission [on accreditation of Health Care Organizations] also found that 90 percent of all long-term care organizations nationally lacked sufficient nursing staff to provide even basic care. The figure is higher in Utah." And, the article continued, "the pinch is felt in clinics and doctors' offices too."



May 1, 2003

Utah Medically Underserved Areas And Medically Underserved Populations

- Partial County MUA
- Partial County MUP
- Whole County MUA
- Whole County MUP
- Proposed MUA/MUP
- Undesignated Counties

For further information, please contact:

Office of Primary Care and Rural Health

Utah's Medically Underserved Areas

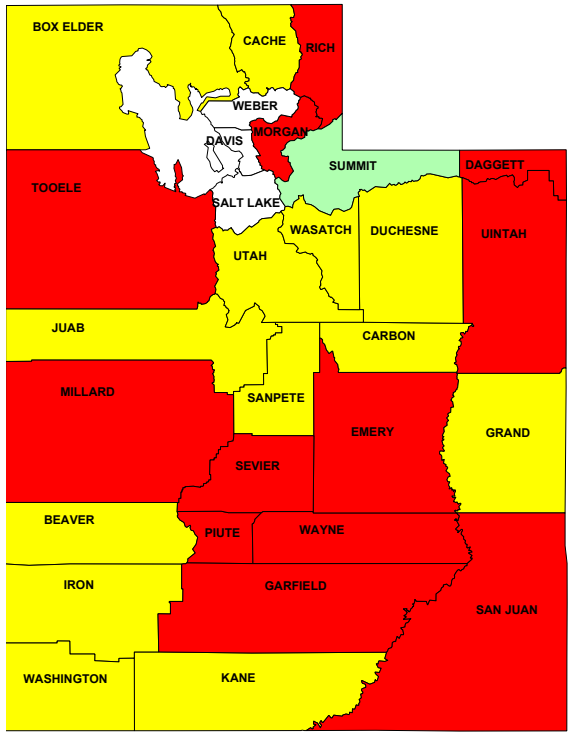
Salt Lake Community College

the community college role

Community colleges like SLCC are the primary educators of nurses and other allied health sciences professionals. In the year 2000, 60% of the RNs taking the registration exam had graduated from community college programs. As an article published by the American Association of Community Colleges notes, these programs also "provide significant opportunities for older students, as well as for students from underrepresented populations." Community colleges also, the article points out, educate 73% of nursing graduates working in rural areas.

student & family benefits

Utah's communities need the health care professionals trained by these programs. Utah students and their families benefit from access to affordable programs that train students for jobs that are -- and will remain -- in demand throughout the region. One-year certificate and two-year associate programs prepare students for high-demand entry level positions in the allied health sciences that pay well. For many students, these programs also serve as a springboard to more advanced careers in health-related professions.



May 1, 2003

Utah Primary Care HPSAs By County and Type of HPSA

- Full County Geographic HPSA
- Full County Low-Income HPSA
- Partial County Geographic HPSA
- Partial County Low-Income HPSA

For further information, please contact:

Office of Primary Care and Rural Health

Utah's Health Professional Shortage Areas

Salt Lake Community College

location

The Health Sciences Center will be constructed on the Salt Lake Community College Jordan Campus at 90th South. The new facility will be located south of the LDS Institute facility and across the central campus plaza to the southeast of the High Tech Center.

master plan criteria

This site is identified as the Phase Three development site in the Jordan Campus Master Plan. Development of this site will also include development of associated campus infrastructure: the extension of the central utility tunnel, the main campus plaza, and the east service road, as well as additional parking.

related campus development

One additional facility may be developed concurrently with the proposed health sciences center: the second phase of the Jordan Education Center, developed in partnership with the Jordan School District and currently being designed, will be located on the west tier of the campus adjacent to the Phase 1 building.

infrastructure impacts of related development

The existing boiler and chiller may not have capacity to handle both projects now under consideration. When the first of these projects is constructed, it will be necessary to have funding in place to add a boiler and a chiller (which will require expanding into the next "cell" of the distribution center). The next boiler and chiller sized in the master plan and planned for in Phase One development of the campus Distribution Center should be adequate to accommodate these two facilities and a future building to the south of the High Tech Center. It is assumed that the cost of expanding the infrastructure will be pro-rated between the two projects.

The costs of extending the tunnel and developing the landscaped plaza above will presumably be allocated between the two projects. Sequencing of utility tunnel extensions and landscaping should be coordinated between the two projects to streamline the construction process and minimize the amount of site work and landscaping that might have to be redone as the individual buildings are completed.

traffic impacts of related development

Completion of the two proposed facilities will add in excess of 200,000 square feet to the campus and extend development near to the center of site. The Health Sciences Center will house existing cohort programs, many of which now have 2-3 year waiting lists of students who have been accepted and completed the necessary prerequisites. As a result, the campus population will grow dramatically when this building is completed, since there will be no lag time needed for students to "discover" the new programs and facilities.

The Master Plan calls for a major boulevard with a modified roundabout on the west side of campus to provide a second entry and exit as the campus is built-out.

Salt Lake Community College

Based on the Fehr & Peers traffic study that accompanied the Jordan Campus Master Plan, the College worked with the Utah Department of Transportation to plan for eventual signalization at the Bangerter Highway intersection. The campus will need to review anticipated traffic loads, consider development of the Bangerter entry, and meet with UDOT to plan for signalization.

The development of the next phase of the IASIS Jordan Valley Hospital, across 90th South directly to the north of the campus, will also include creation of a major entry that can be expected to increase traffic flow significantly. Following the Master Plan, the north entry to the Jordan Campus was placed as far to the east as possible on the site so that it would be feasible to install a signal at this point in the future.

soils

The Master Plan included a study by Applied Geotechnical Engineering that identified typical site oils as consisting of a 12” topsoil layer over layers of gravel and interlayered clay, silt, and sand. Groundwater was found at only one boring, at a depth of approximately 22’. Before design begins on the Health Sciences Center, a geotechnical study of the proposed site area should be completed.

site utilities

All utilities are available at 90th South and will be distributed to the Health Sciences Center through a central campus utility tunnel that extends from the Campus Distribution Center at the north end of campus, running south under the central campus plaza. Municipal sewer lines run to the north /northeast of the proposed building site.

site and landscape development

In keeping with Master Plan criteria, development of the Health Sciences Center will include development of associated parking spaces, the related portion of the utility tunnel, and the central campus plaza adjacent to the facility.

This project will also include completion of a vehicular drop-off area to the north, a service road to the east, and a small accessible parking area for the handicapped and for disabled patrons of the occupational and physical therapy clinics and the wellness center (approximately the size of facilities provided for the dental hygiene clinic, or about 14 stalls).

The sloped building site offers opportunities for the development of outdoor learning areas that can provide transition between the building and the site. The program defines an area for horticulture therapy as a part of the Occupational Therapy Assistant program. Landscape design should include the development of a variety of outdoor activity areas designed for individual and group activities.

Landscaping should follow the requirements established in the Master Plan and Design Guidelines for the use of native and drought tolerant plantings, standard campus signage and lighting, and site furnishings.

site

slcc jordan campus health sciences center

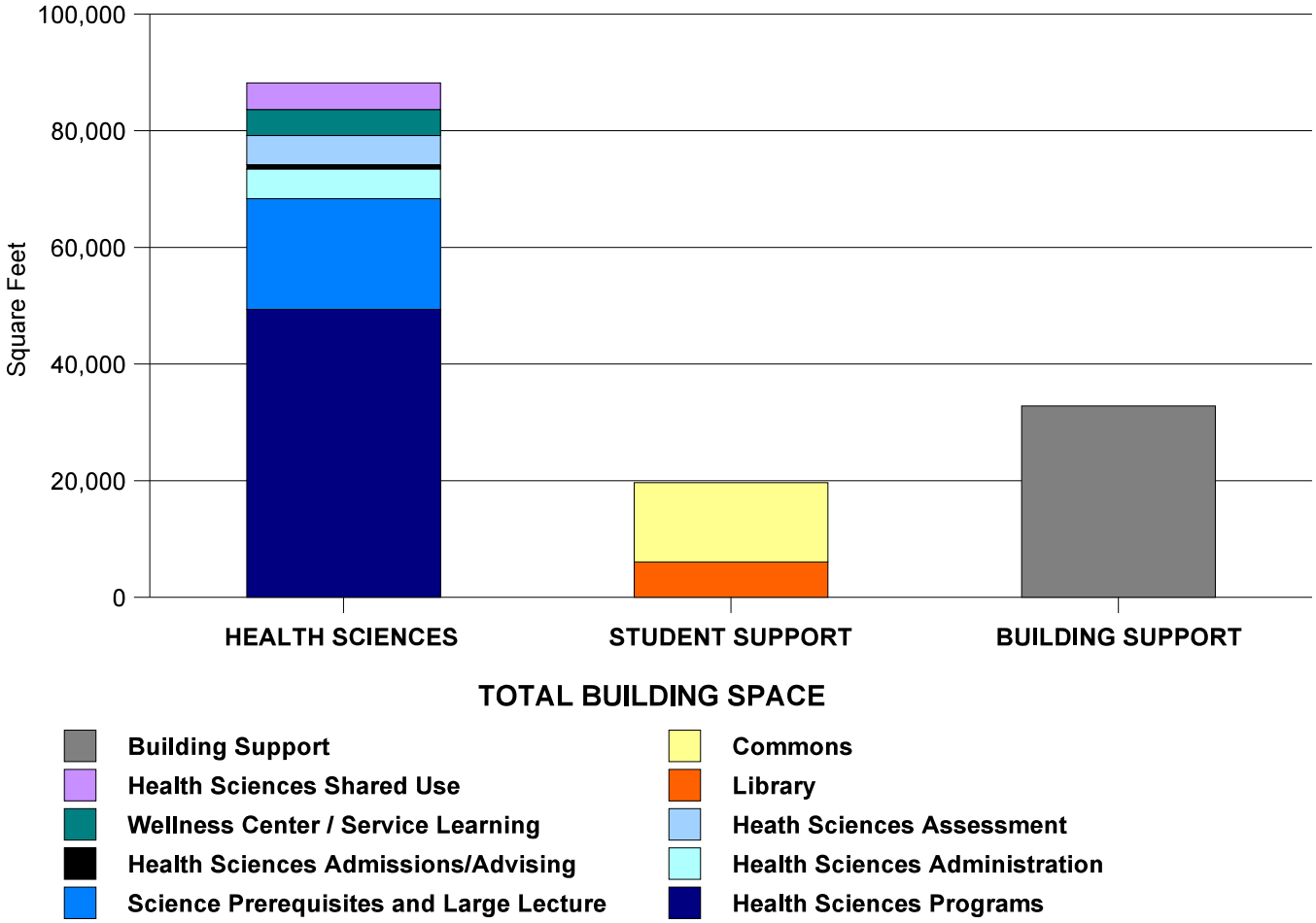
Salt Lake Community College

JORDAN CAMPUS HEALTH SCIENCES CENTER SITE

Salt Lake Community College

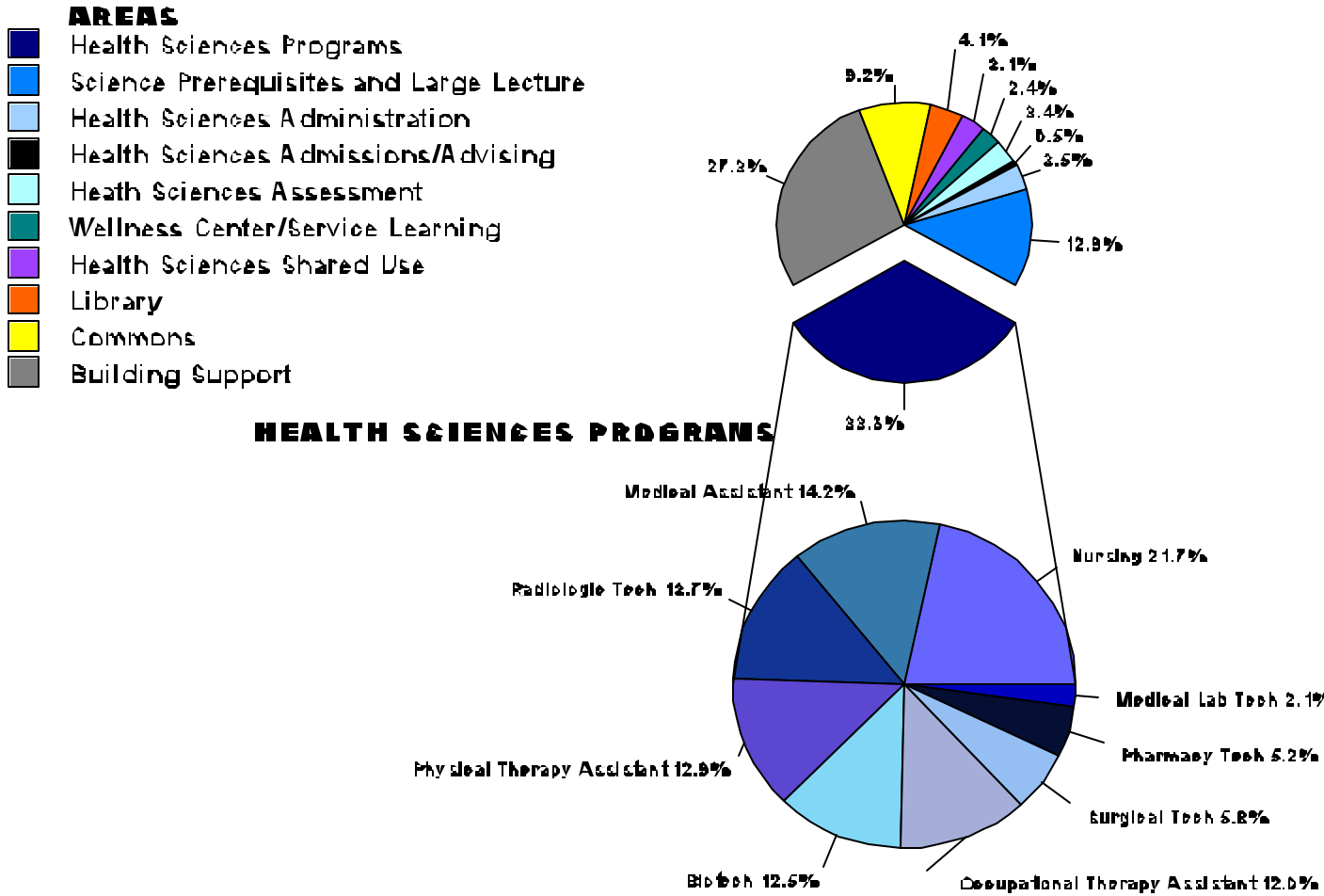
SLCC HEALTH SCIENCES CENTER

Space Allocation



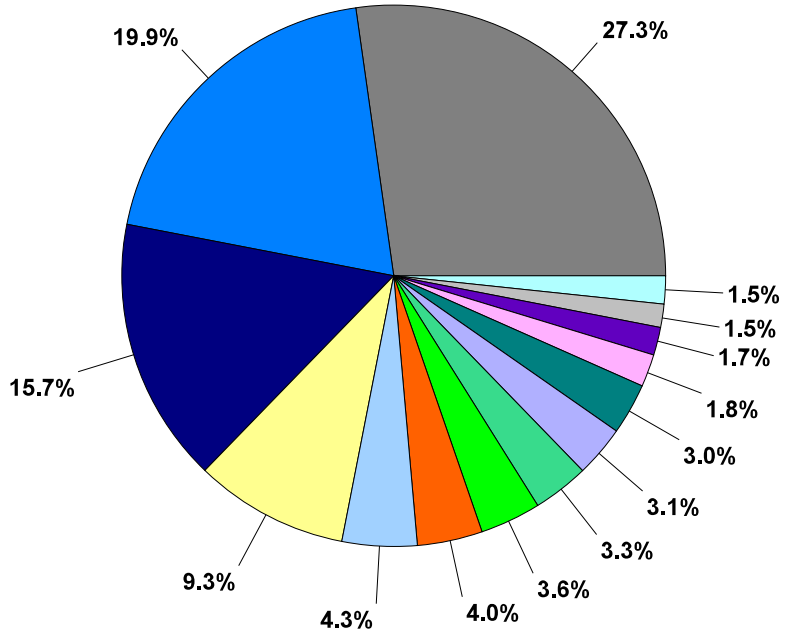
SLCC HEALTH SCIENCES CENTER

Space Distribution by Type and Department



SLCC HEALTH SCIENCES CENTER

Space Distribution by Function



TOTAL BUILDING SPACE

- Classroom and Lecture Hall
- Laboratory
- Instructional Computer Lab
- Faculty Office / Adjunct Work
- Departmental Work / Storage
- Administration, Advising, and Records
- Assessment
- Wellness Center/Service Learning
- Health Sciences Shared Space
- Library
- Student Commons
- Conference
- General Storage
- Building Support

Salt Lake Community College

general criteria

Materials, design, and construction shall reflect accepted professional practice and conform to standards established by Salt Lake Community College, the State Division of Facilities Construction and Management, and all building, life-safety, accessibility, and energy codes adopted by the State of Utah at the time of design and construction, whether or not they are specifically referenced in this document. In the event of conflicting standards, code provisions, or regulations, the most stringent shall govern unless such requirement is waived in writing by Salt Lake Community College and the State Division of Facilities Construction and Management.

jordan campus master plan and design guideline criteria

The Jordan Campus Master Plan, Development Plan, and Design Guidelines are incorporated in this program by reference. Any deviation from these standards will require express written approval from the SLCC Jordan Campus Decision Team, the Design Reeview Board, and the State Division of Facilities Construction and Management. If applicable, the formal written approval of other code review authorities and agency representatives may be required.

The Master Plan and Design Guidelines provided detailed standards to cover materials and construction, color palette, administrative process, grid organization, site relationships, mass-to-glass ratios, massing, architectural vernacular, and campus identity, character, and landscaping.

accessibility

This project should be designed to be fully compliant with the Americans with Disabilities Act Accessibility Guidelines, the relevant ANSI standards, and the requirements of the State of Utah. DFCM standards require the installation of handicapped operators at all main entries and ADA-equipped restroom facilities.

Learning to provide treatment and assistance for individuals with disabilities is a core component of the health sciences programs. Therefore it will be critical to design learning spaces throughout the building to be truly accessible to disabled students and visitors.

hazardous materials

Programs using this facility may employ a variety of potentially hazardous materials. Fume hoods will be required in laboratories and prep rooms designed for the use of General Sciences and the Biotechnology Technician program. Biology, Chemistry, and Biotechnology prep areas will require OSHA approved storage with direct exhaust for acids, corrosives, and flammable materials. In most cases, these storage areas must be of sufiicient size to accommodate bulk chemicals. Science laboratory bench areas will be supplied with gas. The Anatomy lab and prep area will include space for the prosection, storage, and demonstration of cadavers preserved in formaldehyde. These laboratory areas will all require proximate access to approved safety showers and eye wash stations. If safety showers are included within the laboratory space, they must be located in areas that permit

easy access and be installed so that they can be operated without damaging laboratory equipment and experiments.

Areas used by Nursing, Medical Assisting, Surgical Technology, the Wellness Center, and other programs that engage in actual or simulated physical examinations will need provision for the disposal of sharps and biohazard materials. Medical gases (oxygen, vacuum, suction, and perhaps others such as nitrogen) will be required in Nursing, Medical Assisting, and Surgical Technology areas, in addition to the Wellness Center. The Biotechnology Cell Culture lab will require carbon dioxide. Surgical Technology hopes to have a laser demonstration station.

Radiologic Technology and Radiologic Specialties programs and the Wellness Center will house radiologic equipment that may require lead shielding. If conventional dark-room equipment is provided, provision will also have to be made for silver recovery and the disposal of x-ray developing chemicals.

Because medical technologies evolve rapidly, this program cannot predict with any certainty precisely what equipment and materials may be used for instruction at the time of design and construction. As early as possible in the design process, designers should review the location and quantities of potentially hazardous materials that may be used in this facility.

space allocation standards

In general the space allocations defined in this program follow Salt Lake Community College campus standards and the guide-lines developed for state faciliities. A list of key allocation standards is provided below.

enclosed private office minimum size	100 sf
enclosed prviage office faculty	100 sf
enclosed private office advisor	120 sf
division chair office	
“smart” classroom table seating	30 sf per student
computer lab station	35 sf per student
laboratory	35 - 50 sf per student
testing	30 sf per student
clerical open work station	80 sf plus files
waiting	10 sf per person
conference,	25 sf per person
auditorium	12 sf per person

program assumptions

classrooms

All classrooms and class laboratories will be designed as “smart” classrooms, with the capacity for projection in all types of media; capacity to receive transmissions from satellite and EDNET; and capacity to transmit to remote sites.

All classrooms (except the large lecture hall) will have flat floors and movable tables and chairs to provide the greatest flexibility. Tablet arm chairs and narrow 18” tables are not acceptable.

Instructor podiums will be equipped with a permanent computer with a flat screen monitor, as well as outlets for a laptop connection.

laboratory access

All laboratories, and all entries on major access routes that lead to laboratories, should be provided with openings wide enough to accommodate the movement of bulky equipment and supplies, including hospital beds, cadaver tanks, and bulk supplies. Both building elevators should be hospital size. Labs should be designed with a standard 3’-0” door paired with a 2”-0” inactive leaf to provide access.

security

Internal building security will be provided by wireless keypad devices compatible with existing college systems.

The Library / Media Center will require a magnetized security gate system; the existing system in the Jordan Campus High Tech Center can be relocated. If the library has multiple exits, all doors not connected to the magnetized security system should be alarmed exits with time delay.

The health sciences programs use a wide array of demonstration materials that are costly and easily damaged. If health sciences classrooms are not used full-time for health science classes, the primary using department in each classroom will need to have means to secure educational materials that are too large or too fragile to be moved regularly.

Instructional computer equipment, projectors, and media equipment should be secured. Areas such as computer labs that have high volumes of this equipment or particularly valuable equipment should be designed to minimize the possibility of unobserved egress.

The facility will not have a security camera system.

occupancy and group	A-3	large lecture hall	6,000 sf
	B	office and educational occupancies	140,000 sf
	H	laboratory, prep, and storage areas that exceed amounts of hazardous materials shown in table 307.7	none identified at programming phase; review in design
mixedoccupancy	yes		
fire sprinklers	yes		
allowable building area	**notes**	**B occupancy**	**A-3 occupancy**
base allowable area and height	Type II A Type II B	37,500 sf, 5 stories 23,000 sf, 4 stories	15,500 sf, 3 stories 9,500 sf. 2 stories
frontage increase	506.2	assume P = 1065', W=40', F = 1065' 100%	
sprinkler increase	506.3	200% for multistory buiilding	
fire resistive requirements **assume Type IIB construction, sprinkled**			
	structural frame		0 hour
	exterior bearing walls		0 hour
	interior bearing walls		0 hour
	floor construction		0 hour
	roof construction		0 hour
	separation < 5'		1 hour
	separation 5' - 10'		1 hour
	separation >10'		0 hour

slcc jordan campus health sciences center

Occupancy / Use		Net Area	Gross Area	Area per Occupant	Number of Occupants	Notes
Assembly	with fixed seats	8,000		number of fixed seats installed	500	
ASSEMBLY AREA SUBTOTALS		8,000			500	
Education						
	Classroom	42,263		20 nsf	2,113	includes instructional computer labs, science labs, and assessment computer rooms
	Shops/ vocational rooms	15,796		50 nsf	316	assume simulated practice labs are vocational rooms
	Exercise rooms	2,000		50 gsf	40	
	Library reading room	2,760		50 nsf	55	
	Library stacks	2,700		100 gsf	27	
	Student computer commons	7,000		50 nsf	140	assume similar to library reading room
	Locker rooms	1,200		50 gsf	24	
	Mechanical equipment rooms		10,360	300 gsf	35	
	Office/Business Areas	16,630		100 gsf	166	includes faculty and staff office and conference
	Outpatient areas	4,465		100 gsf	45	100 gsf
	Accessory storage areas	1,800		300 gsf	6	includes general building storage; office and department storage included with business occupancy
Educational Area SUBTOTALS		96,614	10,360		2,967	
BUILDING TOTALS		104,614	10,360		3,467	

FIXTURES REQUIRED FOR EACH GENDER ASSUMING 50% M, 50% F Distribution									
Occupants	WC				Lav		DF		Notes
	M		F						
3,467 total	1/125	14	1/65	27	1/200	17	1/500	7	Code requires assuming equal distribution of men and women.

FIXTURES REQUIRED FOR EACH GENDER ASSUMING 30% M, 70% F Distribution									
Occupants	WC				Lav		DF		Notes
	M		F						
1,040 men	1/125	8			1/200	5	1/500	2	Health sciences programs tend to have a heavily female distribution. Estimated ratio based on current enrollment and projections made by program directors, taking into consideration planned recruitment of male students.
2,427 women			1/65	37	1/200	12	1/500	5	
		8		37		17		7	

FIXTURES FOR EACH GENDER ASSUMING M calculated at 50% of total, W at 70% of total									
Occupants	WC				Lav		DF		Notes
	M		F						
1,734 men	1/125	14			1/200	9			Assumes code authorities require minimum number of male fixtures as established by 50/50 ratio. Additional fixtures provided to meet anticipated actual female population.
2,427 women			1/65	37	1/200	12			
		14		37		21		7	

space allocation by floor
3-story scenario

total facility analysis
slcc jordan campus health sciences center

SPACE BY FLOOR: 3-STORY SCENARIO	Assignable sf	Non-assignable sf	Total Space
UPPER LEVEL			
General Sciences Labs and Support	9,620		9,080
Biotechnology/Pre-biotechnology	6,560		6,560
Medical Assisting	7,255		7,255
Medical Laboratory Technician	1,020		1,020
Radiologic Technology / Specialties	6,880		6,880
Surgical Technology	2,850		2,850
Scrub/Sterile Prep/Dishwash/ Linen	600		600
Student Computers	3,200		3,200
Lounge/Study	1,500		1,500
Medium Conference	250		250
Small-group Study	250		250
Locker/Shower/Changing	400		400
Private Professional Consultation Room	150		150
Faculty Work/Mail/Copy	150		150
Faculty/Staff Break Room	200		200
Mechanical		600	600
Stairs		512	512
Horizontal Circulation		7,400	7,400
Vending		100	100
Restrooms		867	867
Custodial		100	100
Electrical		100	100
Phone/Data		100	100
UPPER LEVEL TOTAL	**40,885**	**9,779**	**50,124**

space allocation by floor
3-story scenario

total facility analysis
slcc jordan campus health sciences center

SPACE BY FLOOR: 3-STORY SCENARIO	Assignable sf	Non-assignable sf	Total Space
MAIN LEVEL			
Administrative Offices	3,915		3,915
Health Sciences Admissions/Records/Advising	740		740
Exhibit/Display	300		300
Student Wellness/Community Service Center	3,445		3,445
Nursing	11,640		11,640
Pharmacy Tech	2,550		2,550
Library	5,910		5,910
Assessment	5,000		5,000
Biology/Chemistry Lecture Hall	2,160		2,160
Student Computers	3,200		3,200
Lounge/Study	1,500		1,500
Large Conference	400		400
Medium Conference	250		250
Small-group Study	250		250
Locker/Shower/Changing	400		400
Private Professional Consultation Room	150		150
Faculty Work/Mail/Copy	150		150
Faculty/Staff Break Room	200		200
Mechanical		600	600
Stairs		512	512
Horizontal Circulation		7,400	7,400
Vending		100	100
Restrooms		867	867
Custodial		100	100
Electrical		100	100
Phone/Data		100	100
MAIN LEVEL TOTAL	**42,160**	**9,779**	**51,939**

space allocation by floor
3-story scenario

total facility analysis
slcc jordan campus health sciences center

SPACE BY FLOOR: 3-STORY SCENARIO	Assignable sf	Non-assignable sf	Total Space
LOWER LEVEL			
Occupational Therapy Assistant	5,944		5,944
Physical Therapy Assistant	6,380		6,380
OT/PT Clinic	1,000		1,000
AHEC	1,250		1,250
Assistive Technology Practice Area	300		300
Large Lecture Hall / Auditorium	8,000		8,000
Open Exercise Area	500		500
Aerobic/fitness room	1,500		1,500
Student Computers	600		600
Lounge/Study	600		600
Medium Conference	250		250
Small-group Study	250		250
Locker/Shower/Changing	400		400
Private Professional Consultation Room	150		150
Faculty Work/Mail/Copy	150		150
Faculty/Staff Break Room	200		200
Mechanical		9,160	9,160
Building Storage		1,800	1,800
Server Farm		300	300
Building Operations Suite		700	700
Main Electrical		150	150
Main Telecommunication		150	150
Generator		300	300
Dock /Receiving		300	300
Medical Gas		400	400
Dumpsters/Haz Mat Holding		400	400
Stairs		512	512
Horizontal Circulation		7,400	7,400
Vending		100	100
Restrooms		867	867
Custodial		100	100
Electrical		100	100
Phone/Data		100	100
LOWER LEVEL TOTAL	**32,132**	**22,839**	**50,313**
BUILDING TOTALS Note: This scenario, which was developed early in the planning process, reflects slight differences in square footage from the final space summaries. It is provided for reference. To minimize the building footprint and site impact, the programming team has used the 4-level scenario for preliminary prototype and cost estimating purposes.	**114,074**	**42,396**	**152,375**

space allocation by floor
4 - story scenario

total facility analysis
slcc jordan campus health sciences center

SPACE BY FLOOR – 4-LEVEL SCENARIO	Assignable	Non-assignable	Total Space
4TH LEVEL assumes that 4th level will be under a pitched roof and therefore smaller than other levels			
General Sciences Labs and Support	9,620		9,620
Biotechnology/Pre-biotechnology	6,460		6,460
Lounge/Study	500		500
Small-group Study	250		250
Medium Conference	250		250
Private Professional Consultation Room	150		150
Locker/Shower/Changing	300		300
Faculty /Student Group Interaction Area	150		150
Faculty Work/Mail/Copy	150		150
Faculty/Staff Break Room	100		100
Mechanical		2,600	2,600
Stairs		512	512
Horizontal Circulation		5,550	5,550
Vending		100	100
Restrooms		829	829
Custodial		100	100
Electrical		100	100
Phone/Data		100	100
UPPER LEVEL TOTAL	**17,930**	**9,891**	**27,821**

space allocation by floor
4 - story scenario

SPACE BY FLOOR – 4-LEVEL SCENARIO	Assignable	Non-assignable	Total Space
3RD LEVEL			
Tiered Lecture Hall	2,160		2,160
Medical Assisting	7,045		7,045
Medical Laboratory Technician	1,020		1,020
Radiologic Technology	2,780		2,780
Radiologic Specialties	3,900		3,900
Surgical Technology	2,850		2,850
Scrub/Sterile Prep	600		600
Pharmacy Tech	2,550		2,550
Assessment	5,000		5,000
Student Computers	1,125		1,125
Lounge/Study	700		700
Medium Conference	250		250
Small-group Study	250		250
Locker/Shower/Changing	300		300
Private Professional Consultation Room	150		150
Faculty /Student Group Interaction Area	150		150
Faculty Work/Mail/Copy	150		150
Faculty/Staff Break Room	100		100
Mechanical		600	600
Stairs		512	512
Horizontal Circulation		5,550	5,550
Vending		100	100
Restrooms		829	829
Custodial		100	100
Electrical		100	100
Phone/Data		100	100
3RD LEVEL TOTAL	**31,080**	**7,891**	**38,971**

space allocation by floor
4 - story scenario

total facility analysis
slcc jordan campus health sciences center

SPACE BY FLOOR – 4-LEVEL SCENARIO	Assignable	Non-assignable	Total Space
MAIN LEVEL			
Administrative Offices	2,765		2,765
Health Sciences Admissions/Records/Advising	740		740
Student Wellness/Community Service Learning Center	3,475		3,475
Nursing	11,650		11,650
Library	5,910		5,910
Exhibit/Display	300		300
Student Computers	2,000		2,000
Lounge/Study	600		600
Large Conference	400		400
Medium Conference	250		250
Small-group Study	250		250
Locker/Shower/Changing	300		300
Private Professional Consultation Room	150		150
Faculty /Student Group Interaction Area	150		150
Faculty Work/Mail/Copy	150		150
Faculty/Staff Break Room	100		100
Mechanical		600	600
Stairs		512	512
Horizontal Circulation		5,550	5,550
Vending		100	100
Restrooms		829	829
Custodial		100	100
Electrical		100	100
Phone/Data		100	100
MAIN LEVEL TOTAL	**29,190**	**7,891**	**37,081**

space allocation by floor
4 - story scenario

total facility analysis

slcc jordan campus health sciences center

SPACE BY FLOOR – 4-LEVEL SCENARIO	Assignable	Non-assignable	Total Space
LOWER LEVEL			
Occupational Therapy Assistant	5,944		5,944
Physical Therapy Assistant	6,180		6,180
			assistive device practice area listed separately
OT/PT Clinic	990		990
AHEC Suite	1,250		1,250
OT /PT Assistive Technology Practice Area	300		300
Open Exercise Area	500		500
Aerobic/fitness room	1,500		1,500
Student Computers	3,000		3,000
Lounge/Study	900		900
Medium Conference	250		250
Small-group Study	250		250
Locker/Shower/Changing	300		300
Private Professional Consultation	150		150
Faculty Work/Mail/Copy	150		150
Faculty /Student Group Interaction Area	150		150
Faculty/Staff Break Room	100		100
Building Operations Suite	700		700
Mechanical		6,560	6,560
Building Storage		1,800	1,800
Server Farm		300	300
Main Electrical		150	150
Main Telecommunication		150	150
Dock Receiving		200	200

space allocation by floor
4 - story scenario

total facility analysis
slcc jordan campus health sciences center

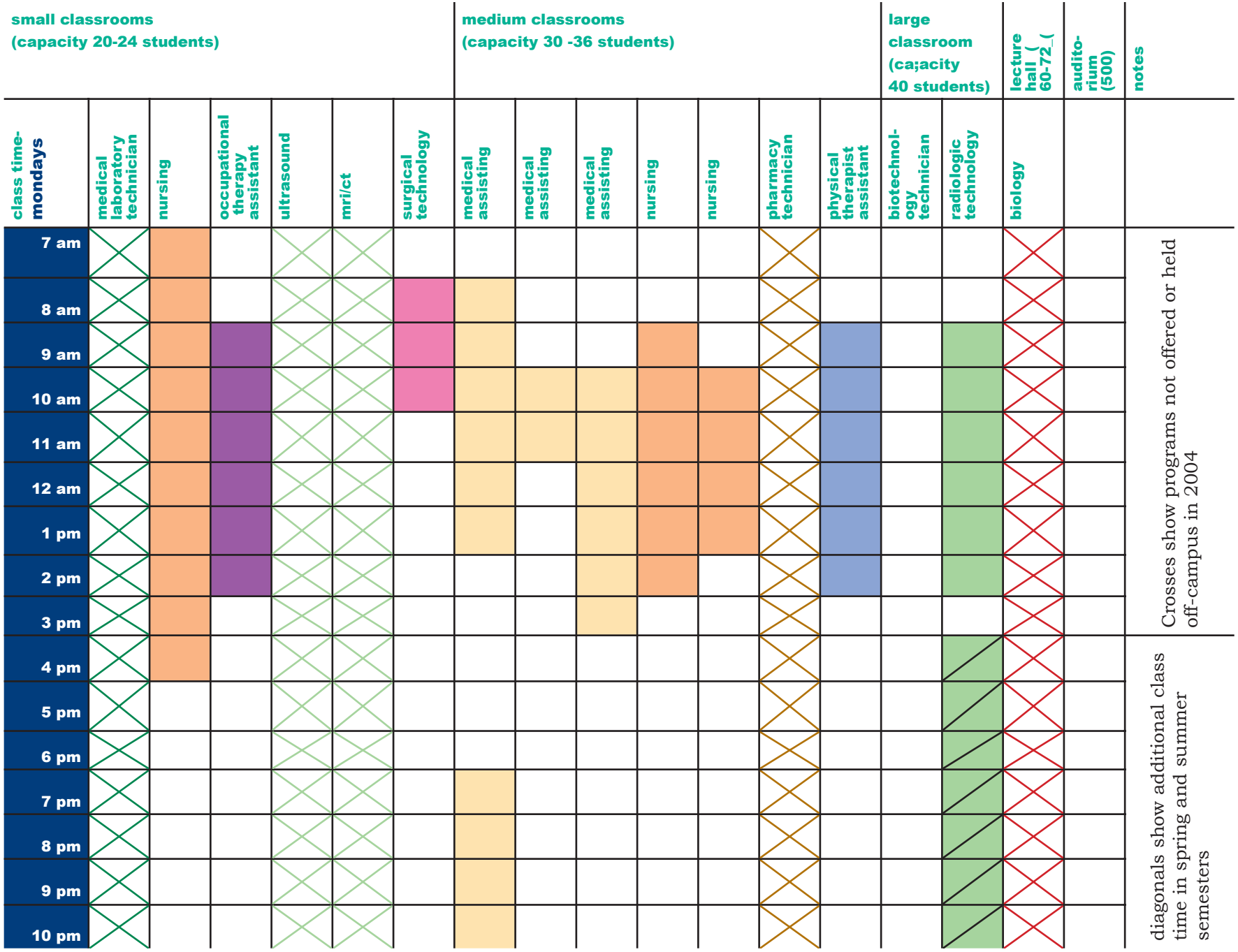
SPACE BY FLOOR – 4-LEVEL SCENARIO	Assignable	Non-assignable	Total Space
Medical Gas		400	400
Stairs		512	512
Horizontal Circulation		5,550	5,550
Vending		100	100
Restrooms		828	828
Custodial		100	100
Electrical		100	100
Phone/Data		100	100
LOWER LEVEL TOTAL	**22,614**	**16,850**	**39,464**

LARGE LECTURE HALL& LOBBY assumes lecture hall will stand alone
because of differential floor-to-floor heights

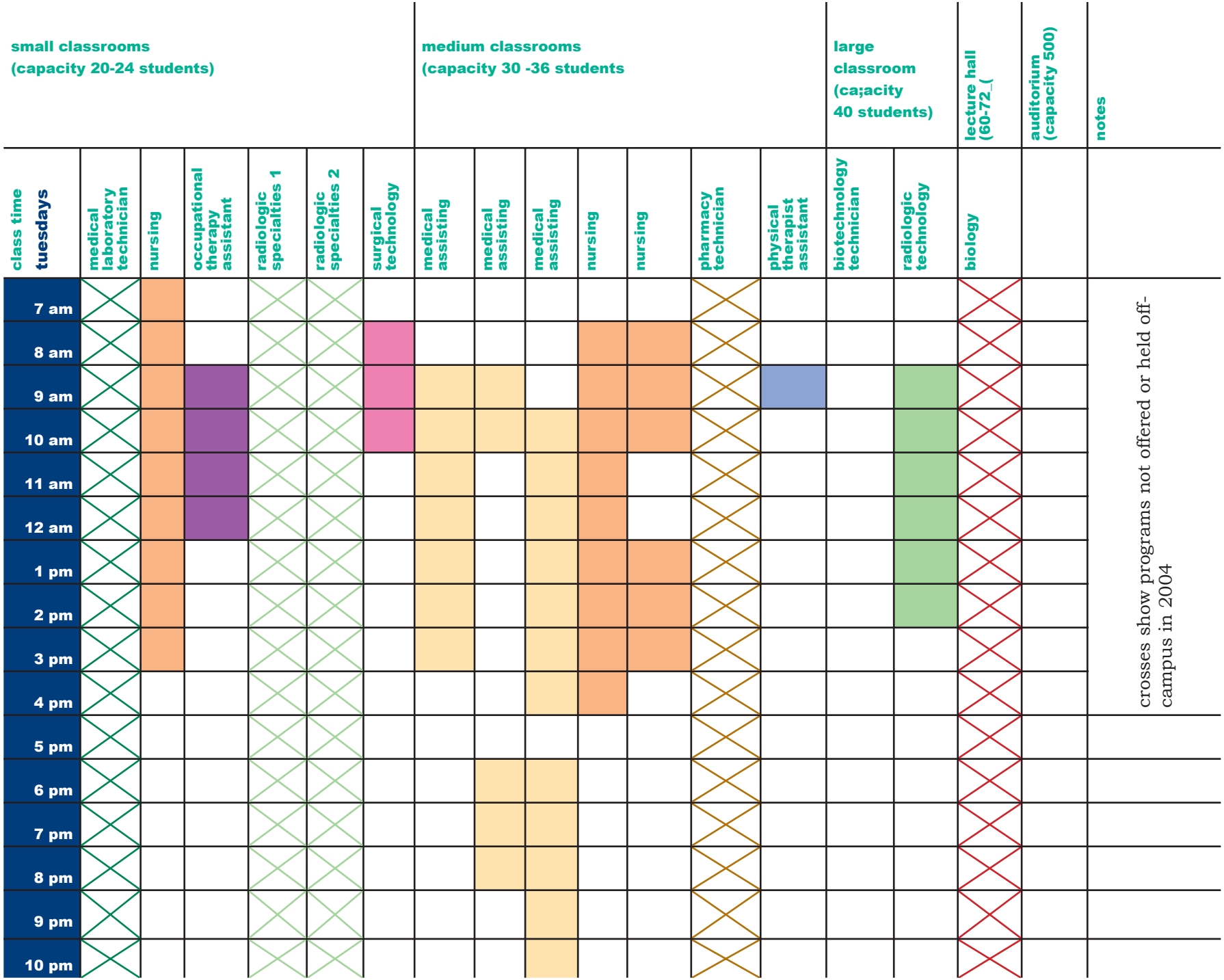
Lecture Hall	7,000		7,000
Lobby/Break-out area	1,000		1,000
LECTURE HALL TOTAL	**8,000**	**0**	**8,000**

BUILDING TOTALS May differ slightly from final Area Summary sheet.	**108,814**	**42,523**	**151,337**

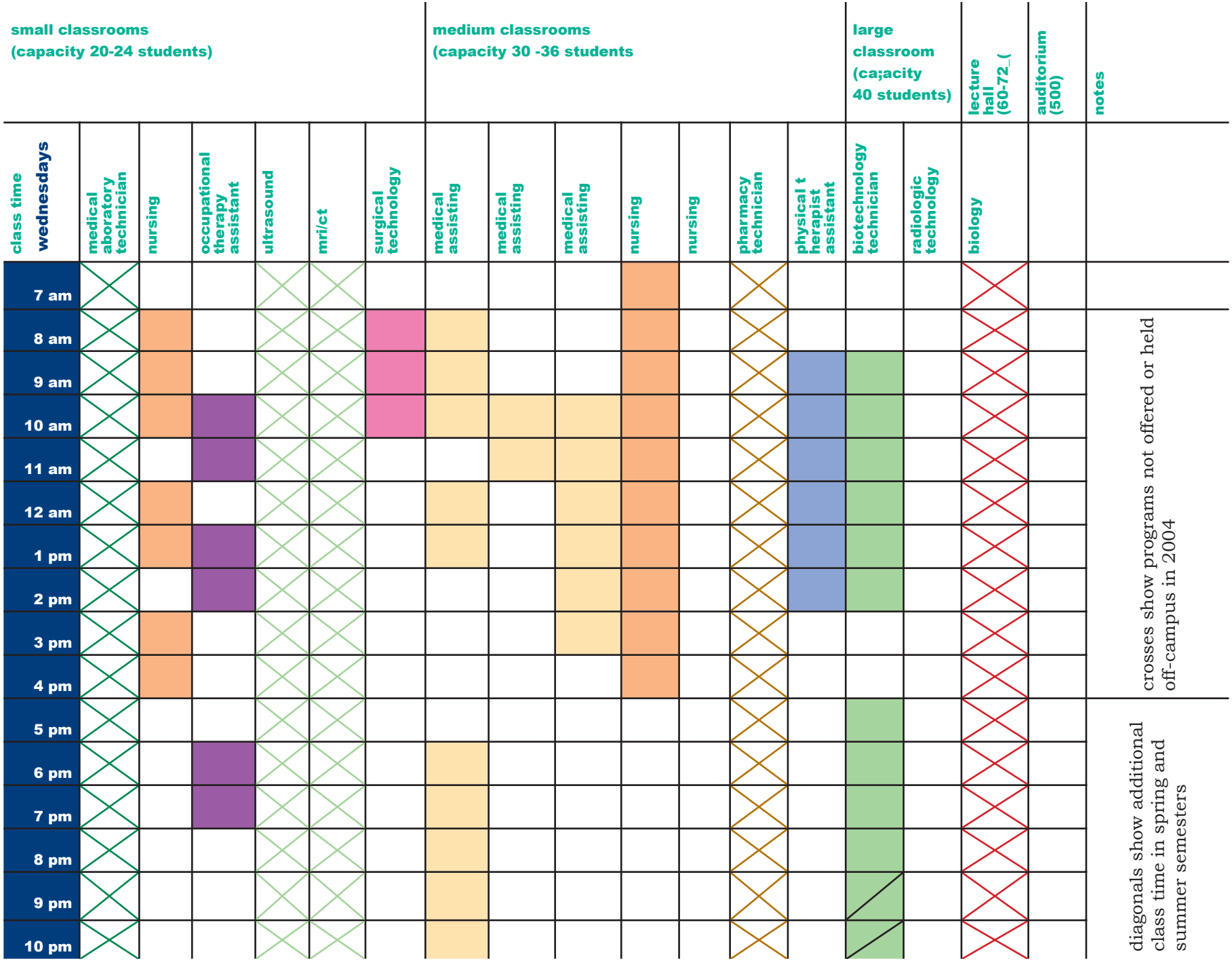
overview
slcc jordan campus health sciences center
classroom utilization (fall 2003)



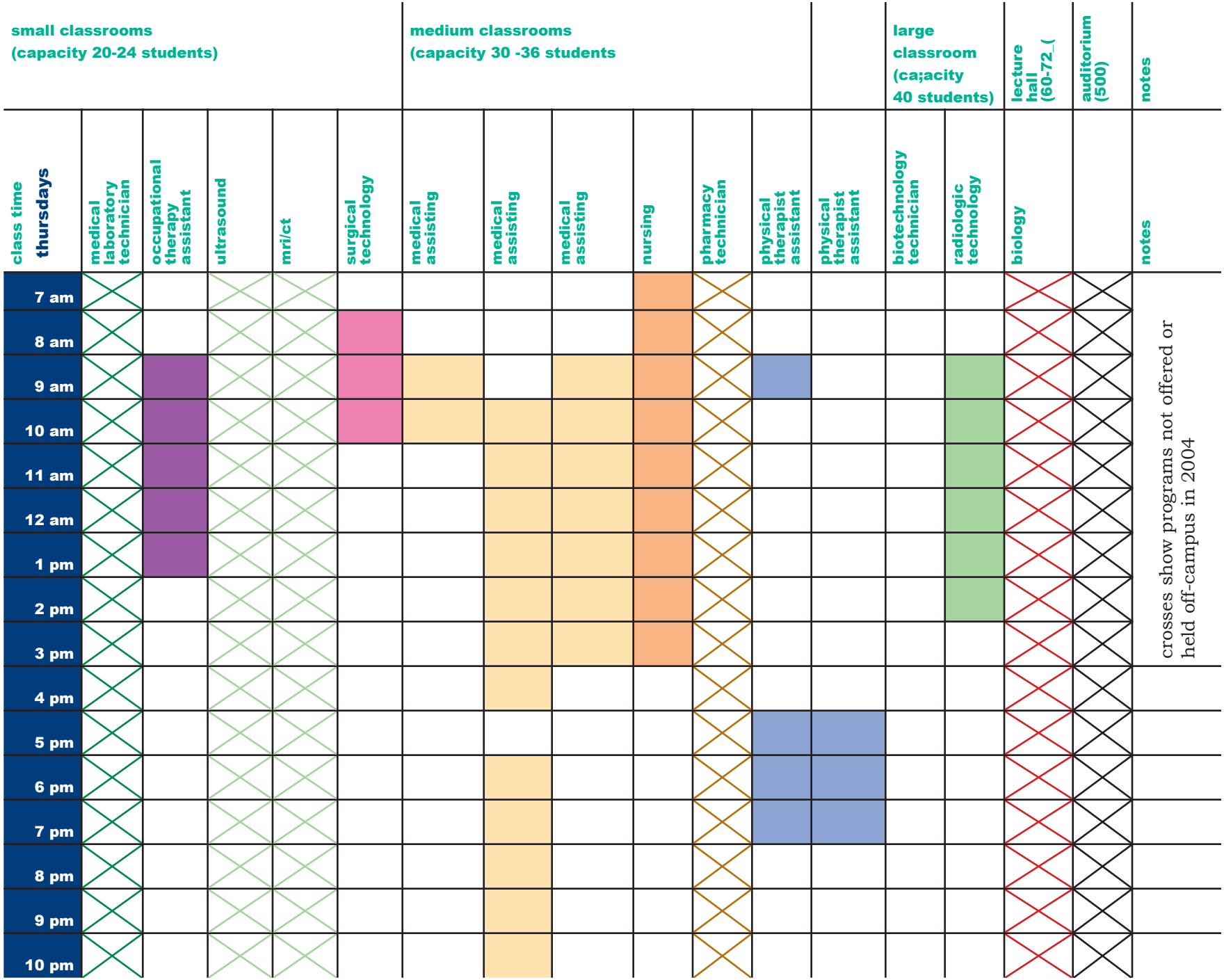
overview classroom utilization (fall 2003)
slcc jordan campus health sciences center



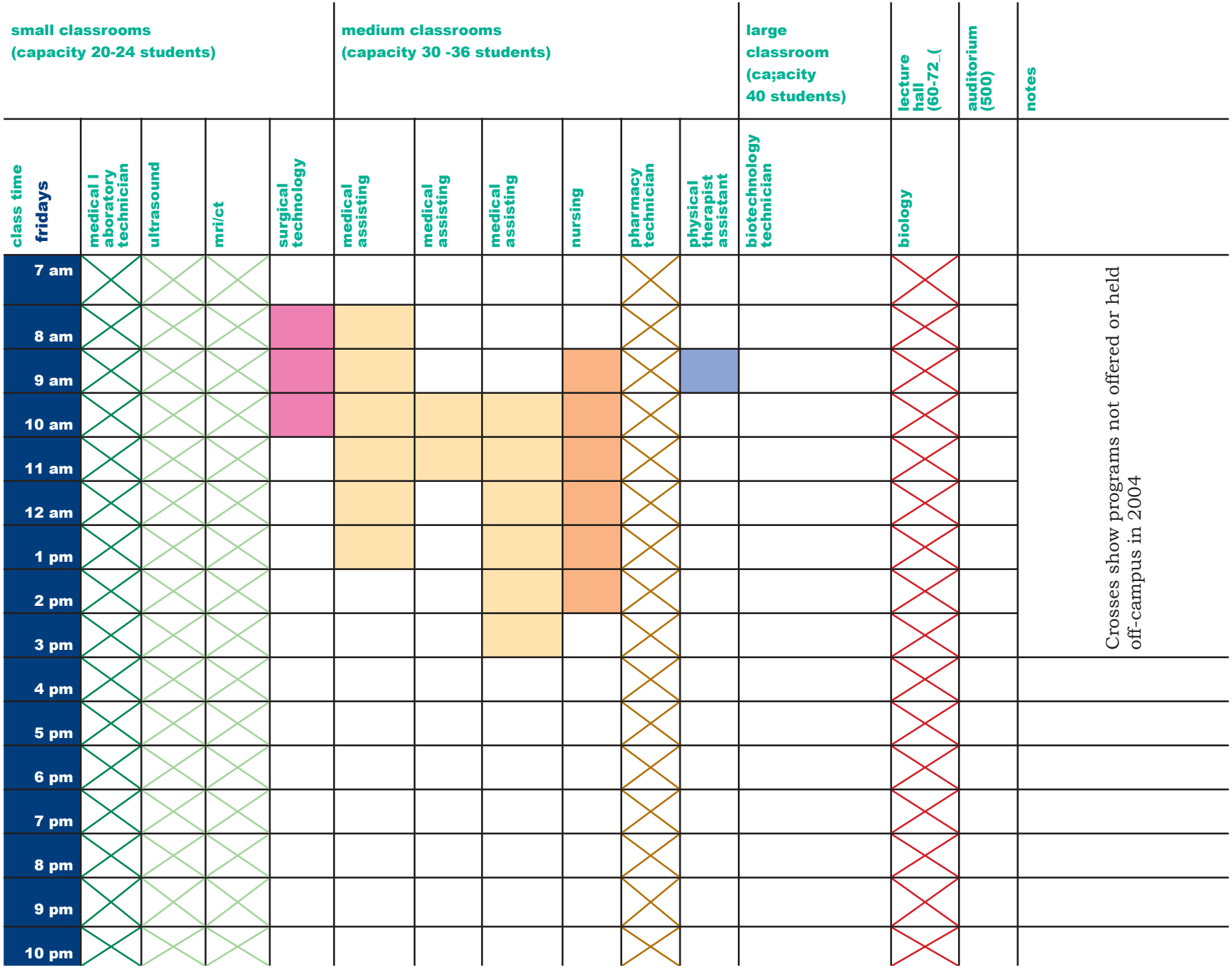
overview
slcc jordan campus health sciences center
classroom utilization (fall 2003)



overview classroom utilization (fall 2003)
slcc jordan campus health sciences center



overview classroom utilization (fall 2003)
slcc jordan campus health sciences center



overview classroom utilization (fall 2003)
slcc jordan campus health sciences center

	small classrooms (capacity 20-24 students)						medium classrooms (capacity 30-36 students								large classroom (ca;acity 40 students)		lecture hall (60-72)	auditorium (500)	notes
class time	medical laboratory technician	nursing	occupational therapy assistant	ultrasound	mri/ct	surgical technology	medical assisting	medical assisting	medical assisting	medical assisting	nursing	nursing	pharmacy technician	physical therapist assistant	biotechnol-ogy technician	radiologic technology	biology		
7 am																			
8 am																			
9 am																			
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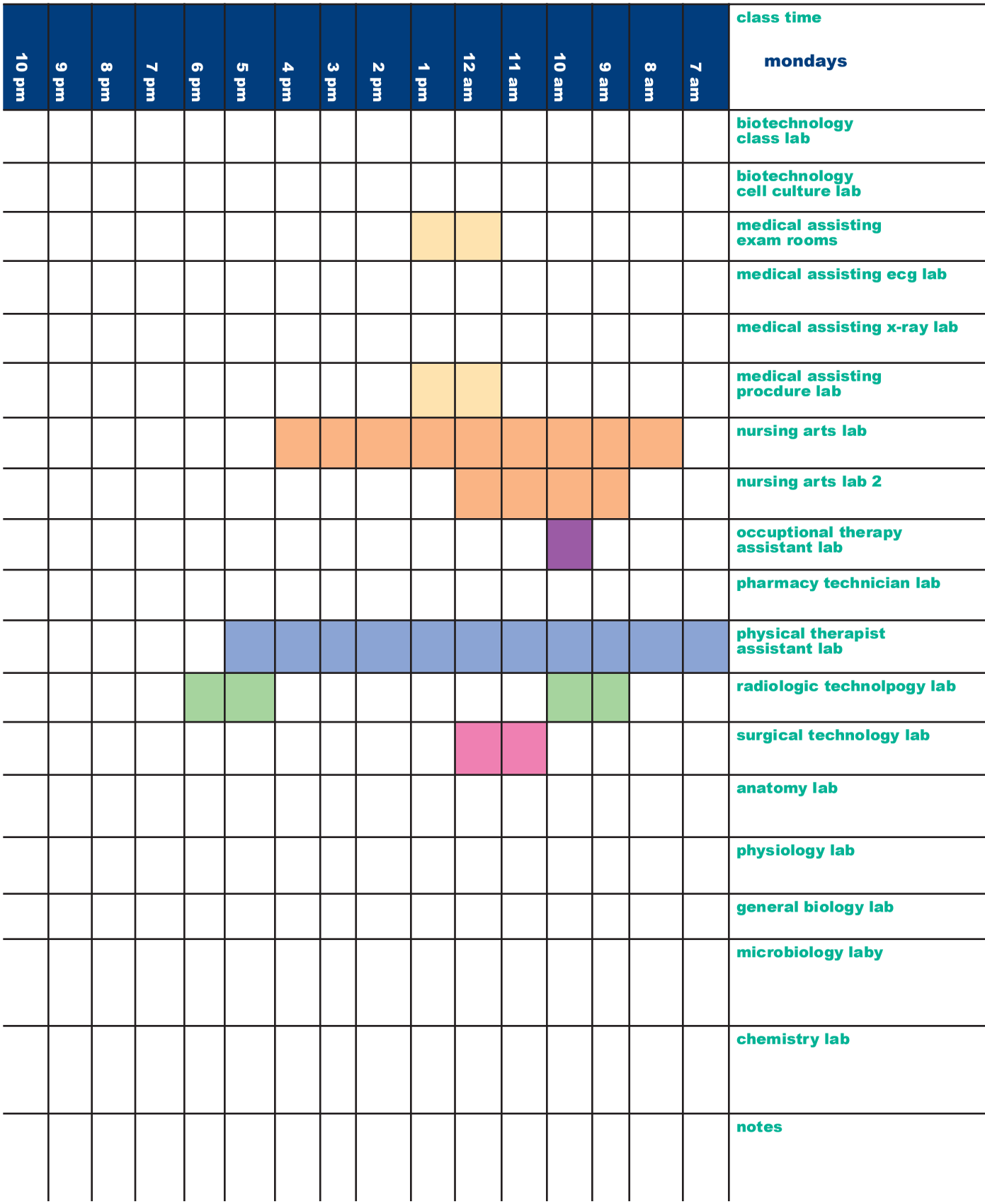
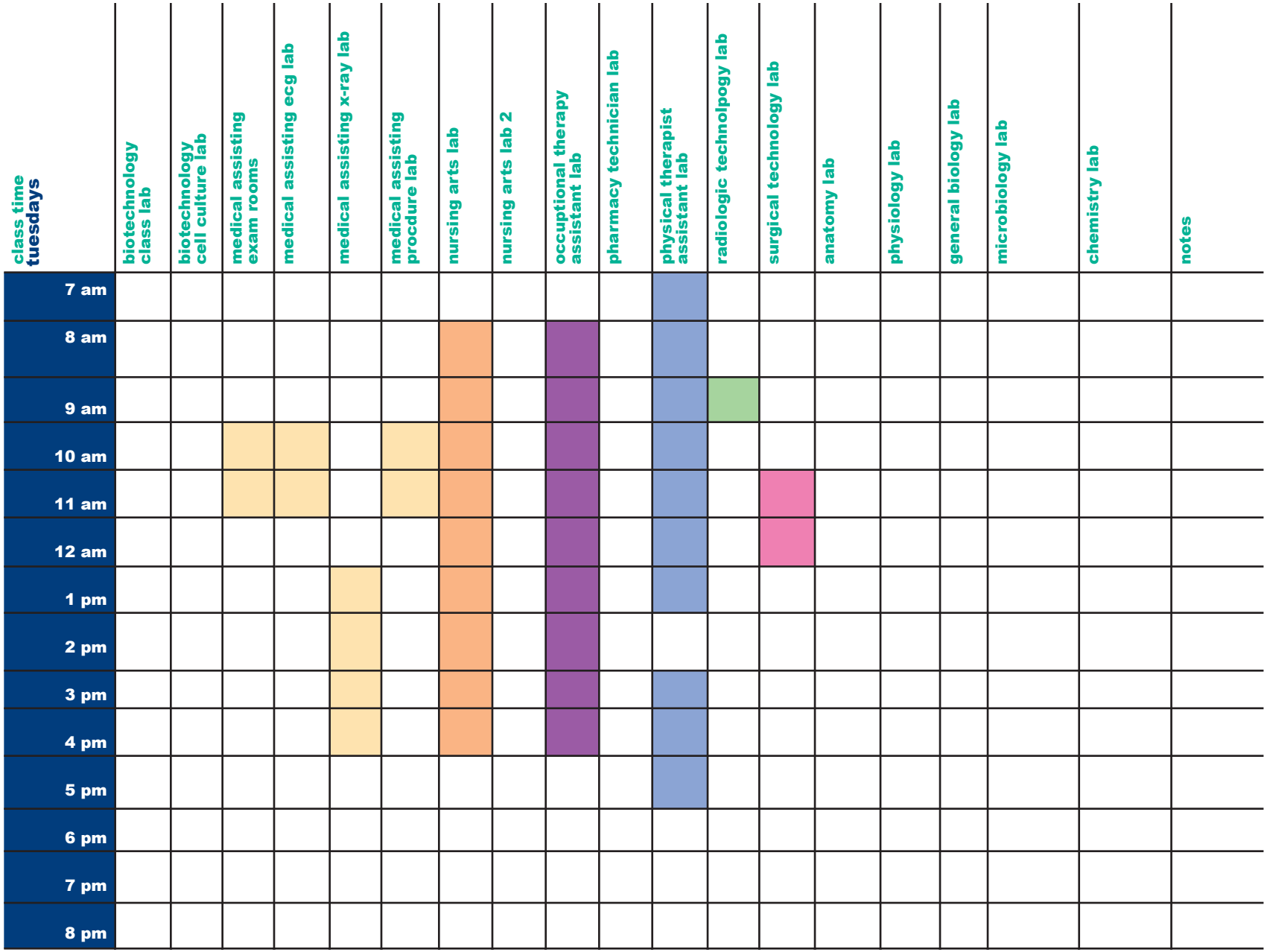
overview

slcc jordan campus health sciences center

class laboratory utilization (fall 2003)



overview class laboratory utilization (fall 2003)
slcc jordan campus health sciences center



overview class laboratory utilization (fall 2003)
slcc jordan campus health sciences center

class time / wednesdays	biotechnology class lab	biotechnology cell culture lab	medical assisting exam rooms	medical assisting ecg lab	medical assisting x-ray lab	medical assisting procdure lab	nursing arts lab	nursing arts lab 2	occupational therapy assistant lab	pharmacy technician lab	physical therapist assistant lab	radiologic technolpogy lab	surgical technology lab	anatomy lab	physiology lab	general biology lab	microbiology laby	chemistry lab	notes
7 am																			
8 am																			
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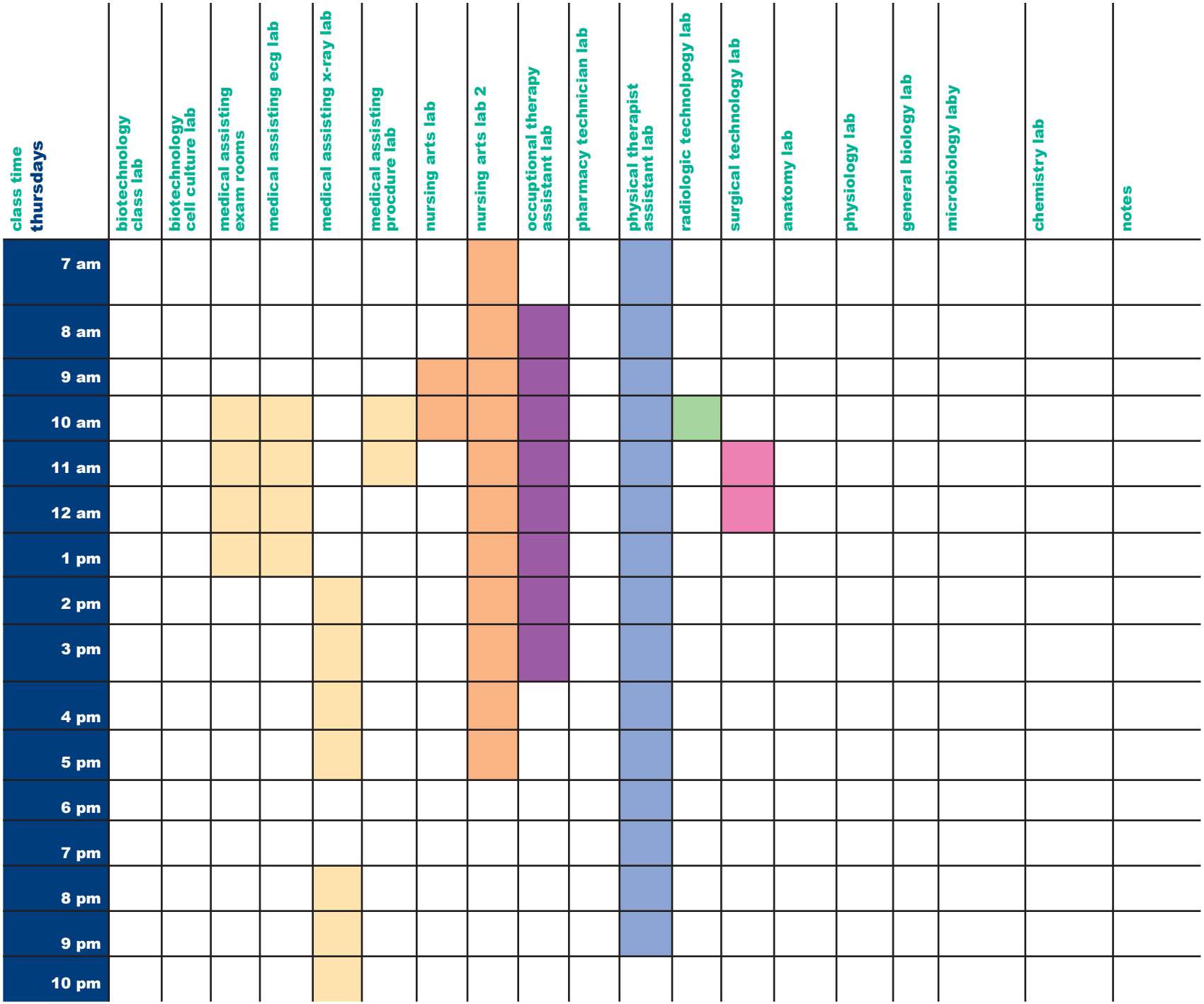
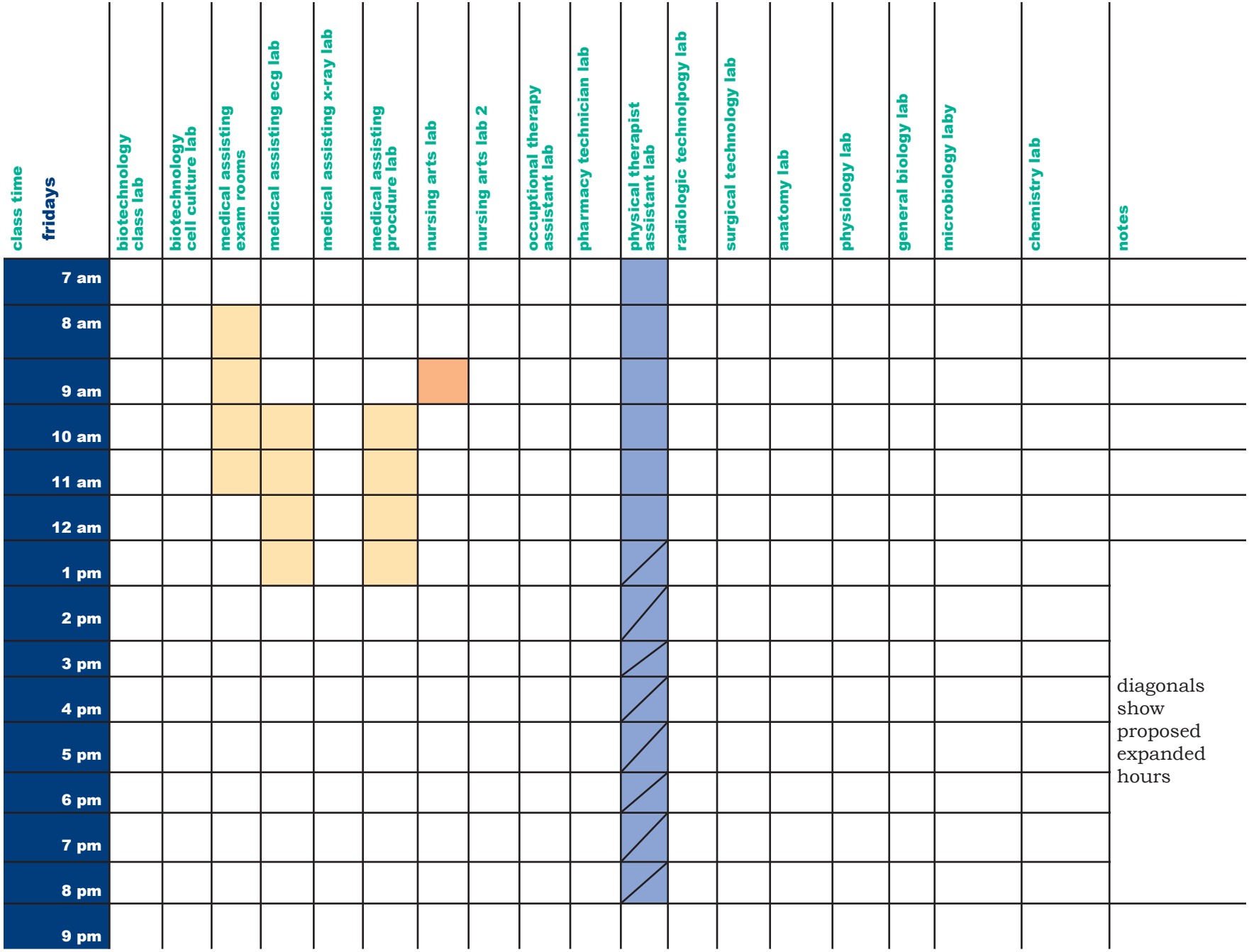
overview class laboratory utilization (fall 2003)
slcc jordan campus health sciences center



overview class laboratory utilization (fall 2003)
slcc jordan campus health sciences center



overview class laboratory utilization (fall 2003)
slcc jordan campus health sciences center

class time saturdays	biotechnology class lab	biotechnology cell culture lab	medical assisting exam rooms	medical assisting ecg lab	medical assisting x-ray lab	medical assisting procdure lab	nursing arts lab	nursing arts lab 2	occuptional therapy assistant lab	pharmacy technician lab	physical therapist assistant lab	radiologic technolpogy lab	surgical technology lab	anatomy lab	physiology lab	general biology lab	microbiology laby	chemistry lab	notes
7 am																			diagonals show proposed extension of supervised lab hours
8 am																			
9 am																			
10 am																			
11 am																			
12 am																			
1 pm																			
2 pm																			
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7 pm																			
8 pm																			
9 pm																			

overview

health sciences computer laboratory utilization (fall 2003)

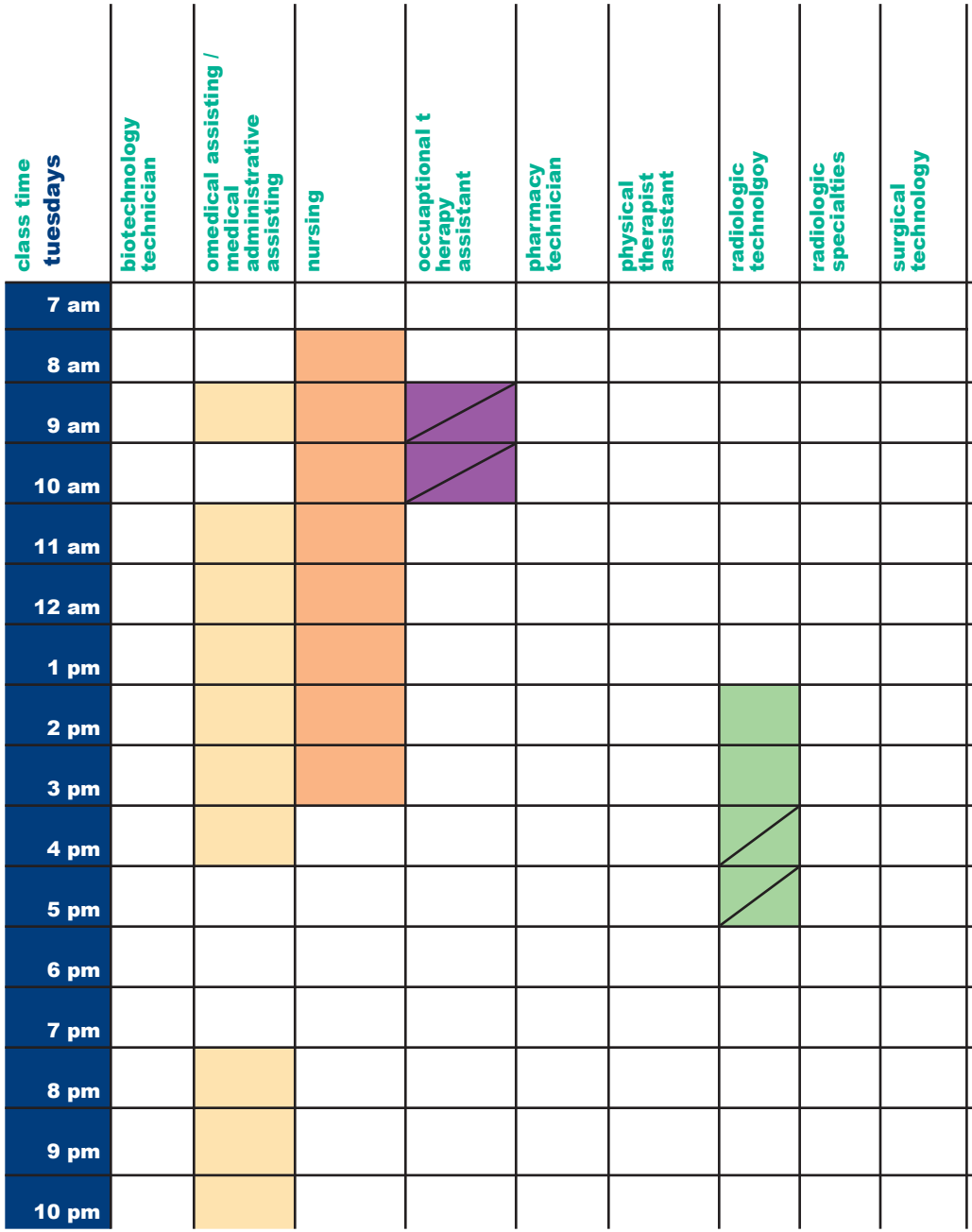
slcc jordan campus health sciences center

class time mondays	biotechnology technician	medical assisting / medical administrative assisting	nursing	occuaptional therapy assistant	pharmacy technician	physical therapist assistant	radiologic technolgoy	radiologic specialties	surgical technology	notes
7 am										Physical Therapist Assistant and Surgical Technology programs plan to shift to proctored computer testing in a computer lab. All testing in the Nursing Program is now computerized.
8 am										
9 am										
10 am										
11 am										
12 am										
1 pm										Diagonals show additional lab times offered in spring and summer semesters.
2 pm										
3 pm										
4 pm										
5 pm										
6 pm										
7 pm										
8 pm										
9 pm										
10 pm										

overview

health sciences computer laboratory utilization (fall 2003)

slcc jordan campus health sciences center

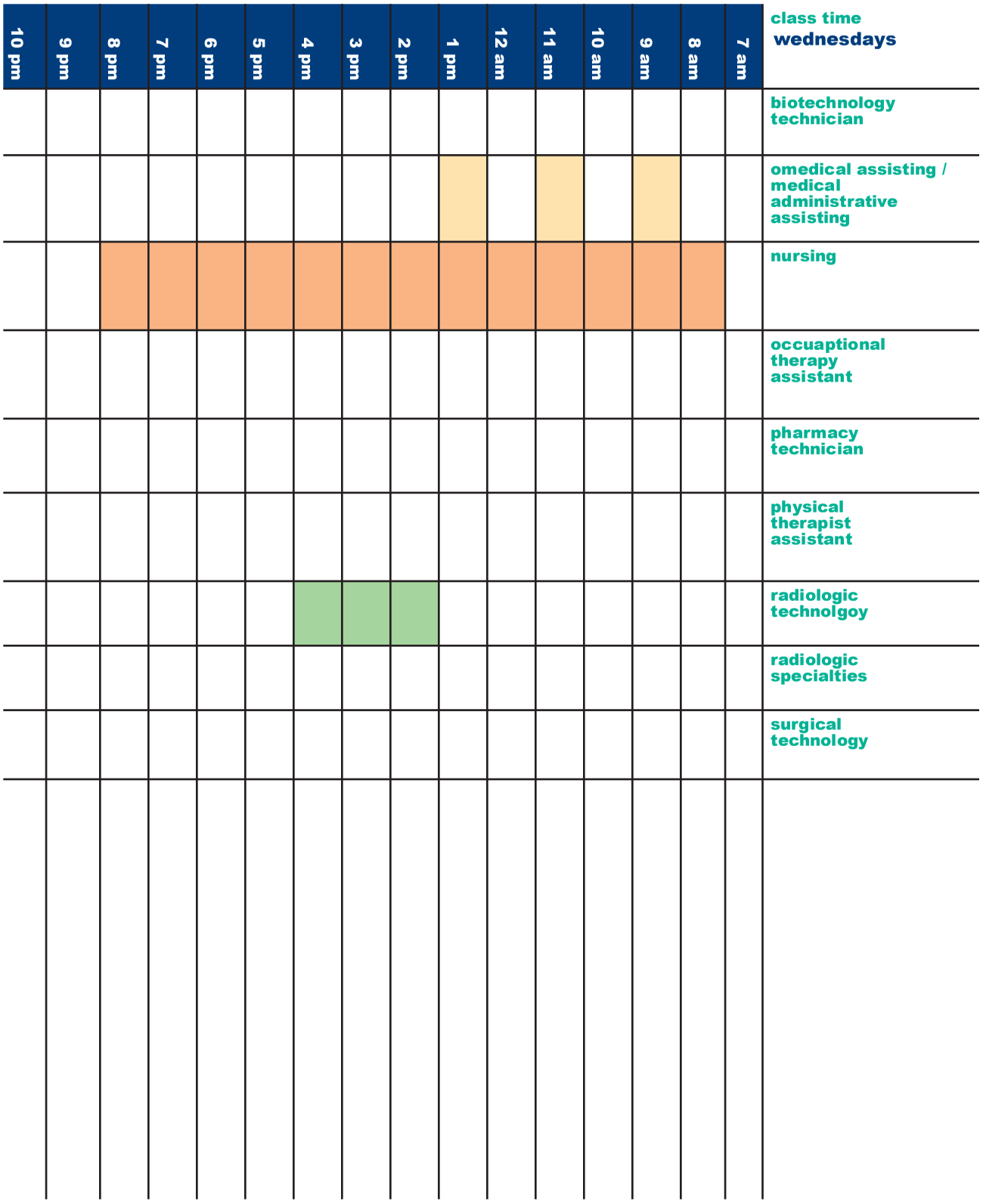


Diagonals show additional lab hours in spring and summer semesters.

overview

health sciences computer laboratory utilization (fall 2003)

slcc jordan campus health sciences center



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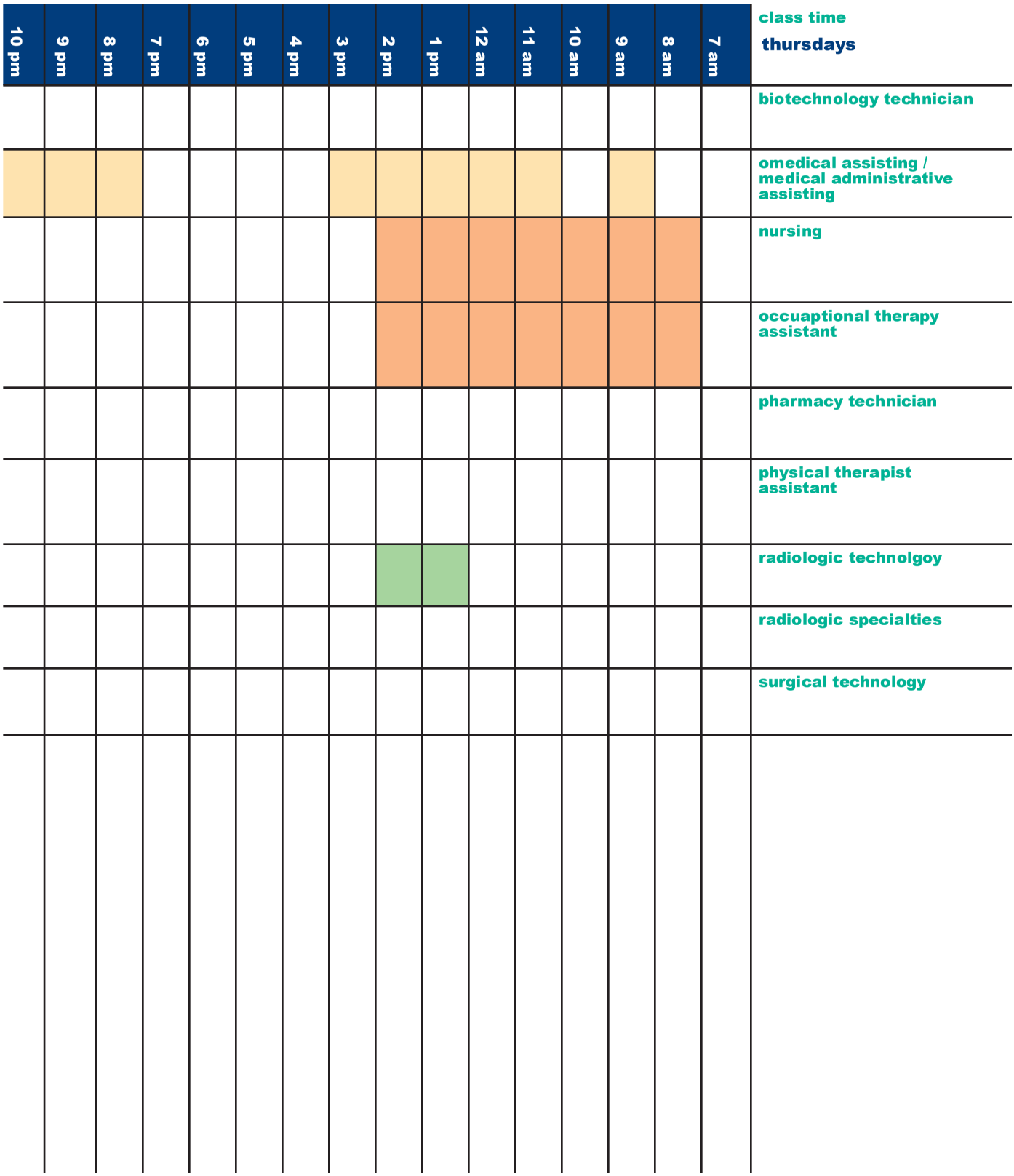

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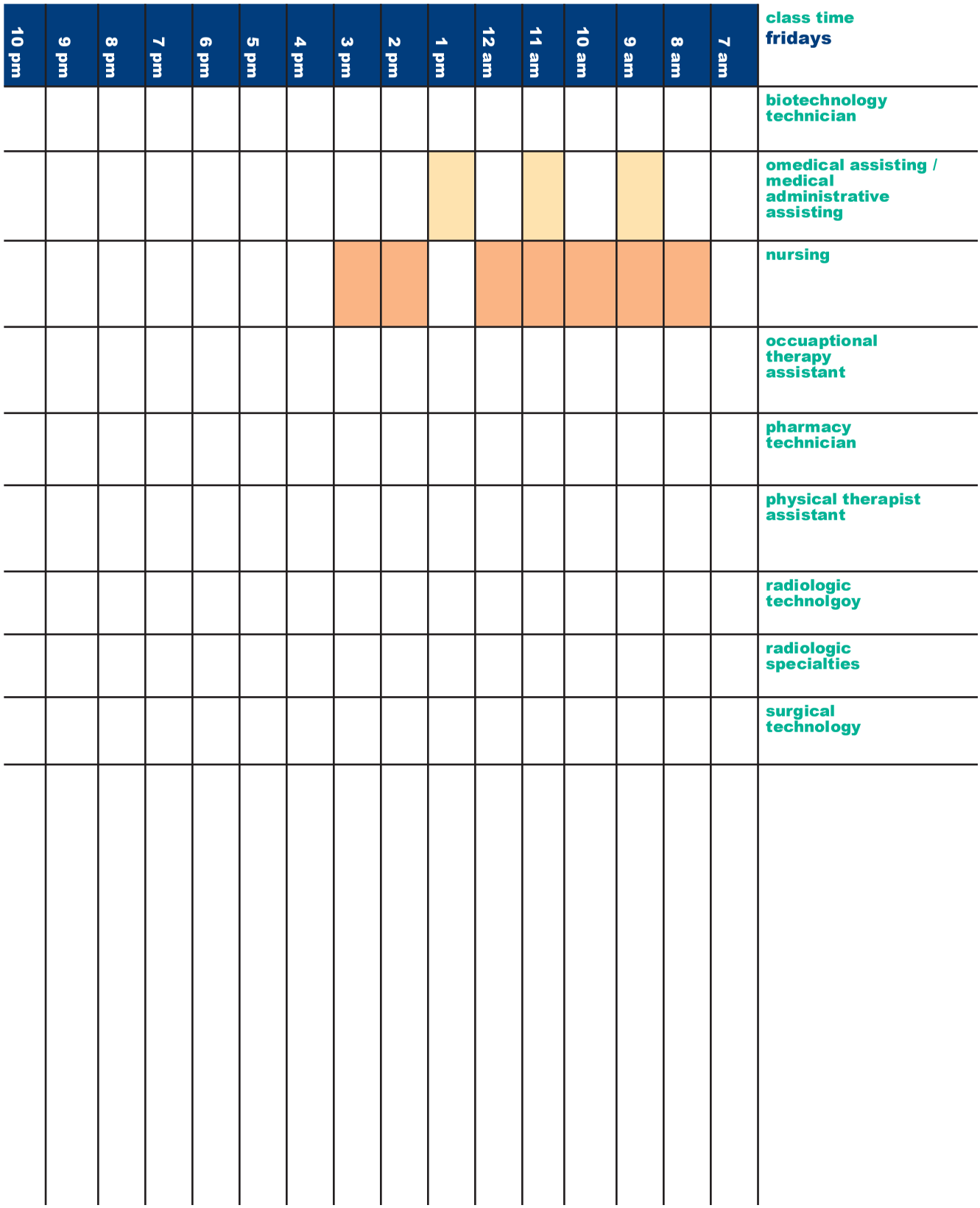

Salt Lake Community College

Salt Lake Community College

spaces needed to support health sciences prerequisites

Biology will need four laboratories in the Health Sciences Center to support the biology prerequisites for the Health Sciences programs: anatomy, physiology, microbiology, general biology (which is different from the general education biology course), and foundations of biology.

existing services

Currently Salt Lake Community College has 5 dedicated biology labs at the Redwood Campus (in the Sciences and Industry Building) and two at the South Campus. These spaces serve 9,600 students per year. Laboratory classes run from 9:00 AM to 11:30 PM. Operating "graveyard shift" lab sessions has been suggested, but this raises serious staffing, security, and fatigue issues. The four labs in the new facility should be "in constant use."

growth

Increased demand for the Nursing program will be the key factor generating growth in the Biology prerequisite courses.

prep areas

Having 2 small prep areas to serve six lab sessions is not adequate. Each lab should have one prep area approximately half the size of the lab.

Prep areas use industrial shelving with seismic bracing. Shelves are adjustable. Aisles between shelf units are approximately 4' wide, with space for cart storage. These are work areas that need adequate lighting to enable to prepare materials. The prep area that supports the anatomy lab should include space for a cadaver table that will permit staff to prosect cadavers. Prep rooms should have floor drains. Each will need a residential-type refrigerator as well as adequate storage for glassware, microscopes, acids and bases, and flammable liquids..

offices

At least initially, most classes in the Health Sciences Center will probably be taught by part-time faculty, who will need shared offices, and adjuncts, who will need a bullpen-type work area. Space should be provided for one to two full-time faculty who will supervise the program and provide a point of contact on the campus.

cost of equipping labs

When the High Tech Center was built, it cost $25,000 (not including microscopes, estimated at $200,000) to equip a lab for BIO 1210 with basic instructional equipment and reusable supplies. Equipping anatomy, physiology, and microbiology labs would be at least twice that today for each laboratory.

cadaver use

Cadavers are used in the anatomy lab for demonstration. The cadavers represent a significant investment for Biology, and they remain in use for two years or more (3 semesters). Anatomy instructors spend 100 hours to prosect the cadavers, which allows them to be re-used for demonstration. This means that the Biology courses cannot share cadavers with groups that use cadavers for

dissection, hands-on student experience, or other destructive uses. Cadavers are preserved in formaldehyde and do not require refrigeration. They are stored in closed table-height metal stainless steel containers on wheels within the anatomy lab.

Biology anticipates heavy demand in the new facility; faculty estimate that the anatomy lab will run from 8:00 a.m. to 10:00 p.m. five or six days per week. This makes it virtually impossible to provide time for others to share the cadavers; the department currently must turn away legitimate off-campus requests for access to cadavers because there is no time available in the lab.

design strategies

Rooms that house cadavers or require special biohazard provisions might employ the strategies used in clean-room construction to reduce cost. Rather than providing an entire lab space designed to the highest standard, it may be possible to create separate sub-areas to minimize the amount of area that requires the most sophisticated environment. The ideal cadaver area would have a dissection table in addition to 2 mobile cadaver tanks. Guidelines for cadaver use require that cadaver labs or storage areas cannot open directly off of a main thoroughfare; it is preferable to have two doorways between the main thoroughfare and the cadaver area. Wide doors are required on the route used to deliver cadavers to the lab area. Ideally the cadavers should be moved as little as possible to prevent damage and reduce public exposure. Therefore moving Biology cadavers from the anatomy area to a shared cadaver lab would not be desirable.

anatomy lab

The existing lab in the Science and Industries Building is approximately 30' x 46' (1,380 sf) and provides for 28 students at benches, with an instructor demonstration area and a cadaver area. The prep room requires a fume hood, but hoods are not needed in the classroom area. The prep area is currently shared with botany, which is not appropriate. The lab has island-type benches that seat four, not the long rectangular benches used for general labs.

general, microbiology, and physiology labs

These labs each accommodate 24 students and have space on a side wall for 6 computers and other equipment. These labs are also equipped with fume hoods. Labs with rectilinear benches need knee spaces at each student work area.

sterilization protocols

Different programs require different sterilization protocols. The autoclave is used only for materials that can withstand heat. Ethylene oxide and electron beam sterilization are used for medical devices. Alcohol, once the default means of sterilizing medical equipment, is the fourth option. Transporting materials to shared prep or dishwashing area would not be desirable.

lab equipment

Purified water should be available in prep rooms. Biology courses currently use deionization and reverse osmosis to purify water for lab use. Each lab should have a

floor drain, a safety shower, and an eyewash station.

hazardous materials storage

OSHA-approved storage cabinets are required for flammable materials, corrosives, and bases. All hazardous materials storage areas must have direct exhaust and ventilation. Cabinets must have plumbing and exhaust, or be connected with tubing to outlets in a fume hood.

sharing space with health sciences programs

Some health sciences programs require equipment and facilities similar to those used by Biology (autoclaves, sterile prep areas, refrigerated storage, dish-washing, cadavers). It appears, however, that joint-use space would not be an acceptable solution for a variety of reasons, including staff time required to transport materials, potential damage or contamination, the difficulty of transporting dirty materials through building corridors, accounting requirements, and heavy demand for biology labs.

laboratory furnishings and equipment

Faculty are generally happy with the labs in the Science and Industries Building, but they would make some changes in the new labs. Chem-top surfaces on the benches have worked well. Standard vinyl tile is acceptable for flooring. Services (gases, power, pressurized air, water) should not be delivered via drop-down columns, which may obstruct classroom sight lines. Plug mold or outlet strips should be provided at all bench areas; power may be supplied on the lip below the top surface, or in a central power tray running the entire bench length with outlets for 24-28 microscopes.

Current faculty suggest that base cabinets are not necessary in student labs. One participant suggested that students currently open the doors or drawers only to prop their feet up on the shelves or drawers.

component functions

slcc jordan campus health sciences center

Salt Lake Community College

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The Biotechnology program trains students for careers in research labs.

program history

The program is now in its third year.

program size

The SLCC Biotechnology program has 38 unduplicated students total. Last semester, 80 students were enrolled. The high school partnership program, which involves 11 high schools, enrolled 426 students last year in a one-year pre-technology program.

The ideal class size is 25 students; classes will be capped at no more than 25. The current lab has seating for 16 at lab benches; the program runs 9 groups of 16 in the lab.

staff

The program currently has two full-time faculty and approximately 10 adjuncts. Of the adjuncts,half (5) teach short sessions (approximately 3 weeks) and half (5) teach all semester. Within the next 4 years, they will add two more full-time faculty.

partnering

The program has space in the Jordan Applied Technology Center. The Jordan School District is now building a new facility designated by the governor as the New Century High School. By its fifth year of operation, this school will have an enrollment of 300 students . "New Century" students will take courses with SLCC students and will have access to other courses and labs on the campus through concurrent enrollment. Juniors (who make up 65% of the enrollment in the program's high school courses) typically want to continue in the program as seniors. Because of their age, companies typically don't want them as interns. To meet this need, the Biotechnology Program, in partnership with the University of Utah Genome Center, a Seattle bioinfomatics firm, and a college in Ohio, has written a grant now pending in the Department of Energy. The grant would create a program to enable these students to gain lab experience sequencing genomes in desert algae. Most would work at the University; approximately 20% would work at a satellite lab on the Jordan Campus.

Working with five local companies, the program is writing a federal grant to develop a non-profit contract research company that will enable students to gain lab experience and college credit.

The SLCC Biotechnology program needs to maintain a presence in the Jordan Applied Technology Center to strengthen its relationship with the Jordan School District.

program growth

Biotechnology is a rapidly growing program: in its first year alone, the number of students tripled (quadrupled in some courses). In the most recent year, its second, the new program grew by 50%. Within three years, the program will have to turn students away. By the 2004-2005 school year, the program

is guaranteed to have 25 new students from the New Century High School (NCHS) program.

space needs

Wet Lab: The program's existing lab facility, located on the upstairs level of the Jordan Applied Technology Center, has bench space for 16, seated 4 per bench. The program currently teaches five lab courses in the wet lab. The program will have a second wet lab in the JATC expansion now under construction. The Health Sciences Center should provide a third wet lab with space for two additional benches, or the capacity to accommodate 20-25 students.

Benches in the existing lab are parallel to the main whiteboard, which means that bench racks block most students' views of the board; they should be rotated in a new lab. The program will need a third lab in addition to the existing lab at the Jordan Education Center and the facilities that are part of the JEC expansion. Each student station at the lab bench should have a knee-hole. It would be desirable to have a pull-out, breadboard-type writing surface at each student station to allow students to take notes in an area away from the experiment. This would also enable the program to accommodate wheelchair users. The existing storage shelves at the lab benches are useful, but shelves need to be configured so that they do not block students' view of the whiteboard and demonstration area.

The small-scale faux granite pattern on the bench tops should be avoided; students use clear plastic tubes which are difficult to see on this surface. A pattern would be acceptable if it were larger and did not disrupt vision.

Windows are desirable in the lab area because students typically spend 3-4 hours at a time in lab. If instructors want to project materials, they typically use the classroom area, so light control is not critical.

The lab needs lavatories and open wall space that can accommodate large equipment. An 8' whiteboard would be sufficient; open wall space is more heavily used than the large board. The lab should have power strips around the perimeter, with at least one area equipped with 220 power for large equipment.

Each workstation should provide lockable storage for students. Having a variety of cabinet and drawer sizes, like those in the existing space, is desirable.

The teaching island is rarely used since instructors don't lecture in the lab. A demonstration island might have more use if it were visible from lab stations or if the space were large enough to permit students to gather around it. If Biotechnology does not have a dedicated classroom or a classroom available for spontaneous use during lab sessions, then this are needs to be large enough to permit lectures and demonstrations in the lab, and the space needs to have light control for projection.

Linoleum flooring gets some stains, but is acceptable.

Salt Lake Community College

Side aisles need to be wider than those in the existing lab. It is not unusual to have a group of students working at the side counter while a lab class is in session. More open space is needed to allow instructors and students to move back and forth with equipment and supplies.

Large Equipment Area: The existing lab houses an array of large equipment, including a centrifuge, multiple refrigerators, an incubator, an ice machine, and a washer-dryer. Ideally much of this equipment would be located in an adjacent space that provided some shielding from noise. The lab has a washer/dryer that is rarely used; having a single washer/dryer unit somewhere in the building would meet Biotechnology's needs. This space should have multiple 220 outlets and be connected to the backup generator. This area does not require windows. It should be large enough to permit student access. Equipment now in this space includes 2 incubators, one 14 x 8" and one 8 x 8".

Computer Lab: The existing computer lab is set up to accommodate teaching as well as independent work. The program needs one computer area suitable for instruction that is available to students at all times. The program teaches 2 courses(1030 and 2058) in the lab now, including an introduction to scientific computing/bioinformatics offered every semester. Students depend increasingly on Internet access while they are in the lab. This space could be shared with others when classes are not in session.

Dark Room: Biotechnology needs a dark room; this space could be shared with other functions.

Classroom: Class size will be capped at 35-40 for lectures, because larger groups cannot be taught effectively. The existing tiered classroom (approximately 21' x 36') and wet lab (approximately 34' x 42') are part of a single suite, which is desirable because classes are blended, moving from lab to lecture and back as needed. If the program did not have access to a convenient classroom, the lab space would need to be enlarged to incorporate lectures and demonstrations. The lecture area is used for courses 1010, 1020, and 1060. Staff like the layout of the tiered classroom. Providing adequate audio, LCD projection, and computer hookups in the classroom is essential.

Prep rooms : Two prep rooms serve each lab / classroom unit. One prep room has a chemical fume hood, which is useful and helps to contain spills but is not fully hooked up. The prep room spaces (currently approximately 8' x 12') are not large enough to permit students to work in this area. The ideal prep lab would have a horshoe-type counter large enough to accommodate 10 students and an instructor at once. One lab should have distilled water supply. The other should have a small residential-type dishwasher for immediate cleaning needs; a larger industrial type dishwasher, which can accommodate large containers, could be shared with other departments. Prep rooms need larger OSHA approved storage areas for flammable materials or space to accommodate movable OSHA-approved storage cabinets. The existing facilities have small storage areas beneath the fume hoods, but these cannot accommodate the

chemicals that the lab purchases in 20 gallon drums.

Offices: Each full-time faculty member should have a lockable private office with file storage, a white board, and side chairs for visitors. Part-time faculty might share space. Offices should have lockable cabinet space for storage, rather than open shelves. The department needs space for lateral files (4 three-drawer double wide lateral files). These departments have large equipment that needs open wall space. For the coordinator, wall space is more important than windows. High windows do not give a view to shorter people; the coordinator would prefer to see this upper area used for open shelving. Each office has a large cabinet used as a garment closet.

Adjunct Work Space: Biotechnology is an industry-based program that relies on assistance from professionals in the field. These professionals need to have a work space where they can leave materials set up. The five adjuncts who teach a short session can share a single desk. The space should have 3-4 desks to be shared by the other 5 who are teaching all semester.

Office Storage/Work/Copy: The program needs a storage area for files, mailing boxes, and general office supplies.

Student Storage. The lab area should have hooks for student lab coats. Some type of storage for student books and backpacks would be desirable.

Cell-Culture Facility: The cell culture facility (now in a temporary location in the Construction Trades Building at the SLCC Redwood Campus) will have to move. This space should have concrete floors and adequate space for storage and circulation. The current space has four 6' laminar flow hoods, gas, and vacuum. The program needs 2-3 additional 6' hoods now; this area creates major bottlenecks. This area also needs refrigerators or access to a walk-in freezer/cooler area. This space has stacked 4' x'4' carbon dioxided incubators. This space does not require a separate ultra-low freezer. The space needs a lab bench that can accommodate microscopes, centrifuges, and a water bath. Students should have work tables. Typical group size using this area is 16-18. This area will have an upright autoclave that requires venting. Students doing contract research, like all Biotech students, will use this area in off-hours and will require access.

equipment

Dishwasher: One prep room should have a small residential type dishwasher for immediate cleanup use, but the program really needs a larger institutionsal type dishwasher that can handle larger containers. This could be part of a shared sterilization/prep area.

Refrigeration: The program has a half-dozen residential type refrigerators as well as several refrigerated case units designed for commercial cold drink storage. Ideally it would have a walk-in freezer annd cooler (to replace existing residential-type units) plus several cases for low-temperature (-20

degrees) storage and one for ultra-low temperature storage. Large walk-in units could be shared with other groups; the smaller special-temperature units could not.

Safety Shower: A safety shower is currently located within the lab area, adjacent to equipment. If the shower were used, it would damage or destroy the equipment. Ideally the safety shower would be located in the corridor just outside the lab space. It could be shared with other functions as long as it was close to the lab area.

technical support

Generator: The Biotechnology program needs to have access to a back-up generator to preserve ongoing experiments from disruption. The generator, which could be combined with the building's emergency life safety generator, would not have to have capacity to support the entire space, but must support a minimum of 3 experiments; having a small number of outlets for critical experiments and power for the refrigerated units would suffice.

Air, Vacuum, Distilled Water, Carbon Dioxide , and Gas: The wet lab area should have in-house vacuum, gas, and air distributed at the benches. It would be desirable to have a medium-size distiller to make distilled water available in one of the prep rooms, but it is not required at individual lab stations. Existing portable vacuum pumps are noisy and bulky, and not as efficient as central vacuum. The cell-culture area should have carbon dioxide.

Hoods and Filters: The cell-culture area should have self-contained laminar flow hoods with HEPA filtration. The Biotechnology program does not do lab work involving pathology, human tissue, radiation, or other controversial approaches. The greatest problem is the disposal of chemicals. Odors can be a problem. Each prep room should have one chemical fume hood. The general lab area does not need hoods or special ventilation.

Sinks and Drains: Special chemical drains are needed in the prep areas. In the lab area, at least two drains need to be metal, because students use dry ice and must dispose of it. Pouring the leftovers down plastic drains cracks the plastic. Sinks at the end of the benches could have larger length and breadth; existing depth is adequate, but a spigot approximately 2" taller would be desirable.

Windows: Windows should have UV protection to reduce heat gain on equipment.

Power: The lab area should have power strips "everywhere" with capacity in several locations for 220 power. The entire lab does not require back-up generation, but 2-3 receptacles, the refrigerated units, and the large-equipment area should be connected to the back-up generator .

Data: Student desk areas and lab benches need Internet access.

potential for sharing

The Biotechnology wet lab will be available to other students when not in use for the program. It may also be used for nonprofit contract research programs. The coordinator wants to maximize use of the facilities. The

Salt Lake Community College

program needs a computer lab space that can function as a teaching lab for its courses. Outside of class time, this lab could be shared with others, or the program could use a common facility in the building.

Biotech labs are most similar to those in nursing. Biotechnology shares some sterilization needs with Surgical Technology and could share xray equipment and darkroom with Radiology.

Salt Lake Community College

location

Conceptually, staff envision a circular central reception and waiting area near the main entry with all of the health sciences programs radiating from this center. Because the division offices provide the clerical support for all programs and faculty, a central, visible, easily accessible location is critical.

building concept

Staff envision the division offices as a central hub with the health sciences programs radiating from this core, so that all programs have convenient access to support services, computer equipment, and shared spaces. Faculty need access to division offices for mail, copiers, and secretarial services. Support staff also need proximity to the offices of the division director.

All areas should have windows and access to natural light. This is particularly important for staff in support areas, because many of them, unlike faculty, spend eight hours a day in their work area.

The entry area and the division offices should be designed to help make the building "student friendly."

space needs

Reception: The division has two receptionists working in open stations behind a high counter. Depending on how much of the building is dedicated health sciences space, it might be desirable to have a separate receptionist staff a general building information desk in the main lobby, with division reception opening off the lobby. This space needs a waiting area adjacent to reception.

Record Room: The division needs to maintain a separate record room to hold student records, which must be maintained for accreditation. Revolving electronic files are desirable.

Equipment Storage: Division offices need a work/storage area for equipment and supplies. This area might also accommodate mailboxes for faculty and staff.

Administrative assistants: The division has two administrative assistants who do confidential and detail work and need private office spaces.

Break Facilities: The building needs a central break room that can serve approximately 40-45 people total, in groups of 10-12 at a time.

Having an exercise room with showers would be desirable. All of the other campuses have exercise facilities available to staff and students. This area could be shared with the Physical and Occupational Therapy Assistant programs.

Conference Room: The division offices need a conference room with capacity for approximately 12, similar to the facilities in the Lifetime Activity Center. This room should have capacity for LCD projection and "smart" technology.

building models

Staff like the Lifetime Activities Center, the Library, and the Student Center at the Red-

wood Campus. They do not like Construction Trades, the Business Building, Auto Trades, and the Science and Industry building. Among features they dislike are inadequate wiring and dark “cave-like” corridors. Having artwork displayed is desirable.

building traffic

Staff estimate peak traffic in the offices at perhaps 50 students per day. Fall registration includes 14,000 FTE students; summer has 12,000 headcount students. As of 1 May 2003, the College had 30,000 students.

Salt Lake Community College

process

Admissions for health science students is currently handled by a special office in the Student Center. One admissions advisor and a clerical support person provide information for prospective students interested in health science programs. Students enrolling in degree programs must submit an application for admission to the College before they can apply to the programs of their choice. This office also provides orientation sessions for new students in the fall. The time from May to August is a peak period, followed by fall orientation sessions and orientation for prospective nursing students who will begin in the Spring class session.

The admissions specialist must review student applications, check academic credentials, input the data, and review the records to see that students have completed essential prerequisites. After this review, Admissions sends letters to notify qualified applicants they have been accepted and to explain to those who are not accepted what materials or qualifications they need to be considered for future admission.

Most students (approximately 90% at this point) are walk-ins. While many initial inquiries can be handled online or through Student Xpress (the open advising area located off of the public concourse adjacent to Advising and Admissions), most students come into the office because they want to talk to someone. The office needs to have an identifiable image and be in a location that students can find easily. Staff typically meet with prospective students in one-on-one sessions.

Advisors generally help students in the health sciences register for their first semester, since all courses require departmental approval.

records

This office currently has four (4) five-drawer lateral files holding health sciences student records. Two of those cabinets will be emptied at the end of the year, when the Nursing program requires students to complete prerequisites before applying to its program.

When students are admitted to a program, student records are transferred to the program office. Thus the admissions office holds records for all students who have applied to a program and been accepted but remain on a waiting list for available space. There may be 200-300 students waiting for slots in these programs. Nursing is the largest group; by August 2003 the program had a waiting list until Fall 2004, and staff anticipate that the Fall 2004 session will be filled by Fall 2003. Dental Hygiene, which accepts students in groups of 30, currently has a 3-year waiting list. Radiology, which also accepts groups of 30 students, has a 2-year waiting list. Currently Surgical Technology, Physical Therapy, and Occupational Therapy do not have waitng lists.

The Admissions office does not handle applications for Biotechnology and the Medical Assistant/Medical Lab programs, which have open enrollment for any student who has met the English and mathematics prerequisites. Staff do, however, respond to questions from students in these programs.

Salt Lake Community College

Admissions must keep hard-copy records of key documents, such as the application form, but has been moving to process as much material as possible electronically.

location

The current location offers good access and visibility for students, but being next to the computer area can be a problem for staff, who may have to respond to students with computer questions and problems unrelated to admissions.

growth

The previous Admissions specialist for health sciences handled all of the requests alone. Currently the Admissions functions are handled by one 30-hour-per-week staff person; clerical services are provided by a part-time staff person. As the number of enquiries increases, additional staffing may be required. Clerical tasks could be shared with other health sciences clerical staff; others can be cross-trained to respond to Admissions queries, and it would be desirable to have clerical staff clustered in a central location where they can provide backup and support for one another.

Advising

Two advisors currently serve health sciences students. Deron Hutchins has responsibility for nursing students; Evelyn Odell handles other health sciences programs.

space needs

Advisors and admissions specialists currently have 10' x 12' offices with space for student conferences. Clerical staff have an open work station. The office also needs storage for lateral files and office supplies.

Salt Lake Community College

library concerns

The library facility in the High Tech Center will not be adequate to serve the Jordan Campus as the population expands. When the Health Sciences Building opens, groups of existing cohort programs will move into the new space. This means that the student population on campus will grow immediately, not slowly as it did when the High Tech Center opened and it took students some time to discover the resources available at this campus.

The library needs to have a single entry (with locking alarmed exits as needed). Security is a significant concern for the librarians. The facility should have security gates, controlled access, and visibility to deter inappropriate behaviors.

staffing

The library would like to have a total staff of 12 for the new facility (3-4 full-time and 8-9 part-time.) They currently have 4 part-time staff for Jordan Campus. At peak periods they may have 5 staff: 3 at the desk, one shelving, and one running media equipment. During slow times, 2 staff can operate the library.

hours

The Jordan Campus Library currently opens Monday through Thursday from 8:00 a.m to 8:00p.m. and on Saturdays from 8:00 to 4:30 To serve the larger population, the College will need, at a minimum, to extend Saturday hours.

users

Nursing, biotechnology, dental hygiene, and radiology programs are information intensive programs whose students are heavy library users. The current collection in the High Tech Center is so limited that the library has limited use. There are few community users. The Faculty Teaching and Learning Center handles faculty requests for computer assistance; the library does have one laptop for faculty use and can burn CDs for faculty.

location

The existing library space in the High Tech Center is too isolated. They get by with the space they have, staff suggest, because no one knows that they are in the building. In the Health Sciences Building they want a central location. They describe their preferred position as at the core of the building, surrounded by classrooms and group study areas. Because the Master Plan mandates the use of core building areas for open common space, the library will not be able to occupy the literal core of the facility, but they should have a high-visibility location near the main entry adjacent to the student commons. Proximity to other group study areas would be desirable.

relationship to open areas

Library staff want control over all of the space they use. They would like to have group study rooms within the library. Reference materials and other items that do not circulate cannot be taken outside the library for use. Theft can be a major problem and, unlike computer equipment, library collection materials often cannot be easily

replaced if they are stolen or damaged. Past experience suggests to librarians that their database materials may not be loaded or readily available in a shared computer lab, even if they provide the materials to the lab coordinator.

If all library materials could be secured with a gate or doors that would lock off collections, the main desk, media storage, and library computers, the group study and seating areas could be open for student use when the library is not staffed. Computers enclosed in lockable desks could be left in the open area, but open computers cannot because the library has liability if students use their machines for unauthorized Internet access.

It would be desirable to have an exterior entry and exit that could be open after hours. This would require that the space have its own rest room or access to rest rooms when the rest of the building is locked.

space needs

The library wants to have sufficient space to serve the campus for the foreseeable future and offer the services the campus needs. Adding a second small space similar to the current one simply will not meet the need.

stacks

The library will need additional stack area. Staff will quantify the numbers and types of collection materials to be stored.

media equipment room

The library stores media equipment for instructional use. If all of the instructional spaces in the new building are fully wired and equipped, there will be little need for equipment delivery in the Health Sciences Center, so the media storage area could remain in the High Tech Building. Library staff will handle equipment requests from the new facility; runners will pick the equipment up from the High Tech Center Media Storage area and deliver it where it is needed.

The new space will still need a small secure media area to with built in cabinets from floor to ceiling (or floor to head height) to accommodate collection items such as models. The media room should be behind the main desk or adjacent to it.

seating

The new space should have study seating for 36 to 48 adults, primarily at 4-person tables, with some carrels. It should also have a small lounge seating area with a couch or a few chairs, adjacent to the current periodical and newspaper racks. The reading area should also have space for best-sellers and recreational reading, a dictionary stand, atlas table, and globe. The High Tech Center library does not have coffee service, but if there is no food service in Health Sciences the library should have coffee machines.

Media materials can be inter-shelved with print materials; most do not need to be kept in a secure area.

Salt Lake Community College

main desk

A single main desk can serve as reference, circulation, and information desks combined. Typically there will be 2-3 staff in the desk area. They need to have 3-4 book carts in the work area behind the desk. The desk should have 2-3 computers and one cash register/cash drawer. One shelf unit behind the desk will accommodate the reserve shelving. Reserve books may decline as more materials are provided on E-reserve.

self check-out

The library does not currently have self-checkout. Staff consider it possible but not probable in the near future for the Jordan campus. The design, however, should provide an area that could be used in the future for self check-out, in a location where queuing will not clog circulation paths. A single self check-out station will suffice.

offices

The library will need 3-4 offices, or one office and a shared work area. The library director must have a private office.

work room

Staff need a work room with a large table, lockers, mail bins, shelving for incoming and outgoing materials, book carts, and space to handle incoming book deliveries. This area does not need a sink. Library staff can share a central Health Sciences break room. Acquisitions are centralized at the Redwood Campus.

lessons from the existing space

The existing space is not used efficiently. The back area is out of sight, which can create security problems. Staff need more space behind the desk.

component functions

slcc jordan campus health sciences center

Salt Lake Community College

Salt Lake Community College

program identity

The Medical Assistants and Medical Administrative Assistants programs currently share a suite on the Redwood Campus. The Medical Assistants program trains students to work primarily in physicians' offices and other care settings. Students learn both office skills and basic patient care skills. The Medical Administrative Assistants program prepares students for entry-level employment in medical offices, clinics, and insurance offices. The program helps students develop office skills in reception, appointment scheduling, insurance coding, transcription, and billing. Students learn to maintain and stock a medical office and understand medical law and ethics. They also earn CPR certification. The one-year program includes student internships in office settings.

students

In the first semester, students focus on theory in classroom groups of 35 or 36. The second semester emphasizes practice in lab sessions that cannot be larger than 16.

faculty and staff

The programs employ full-time faculty.

space needs

Simulated Exam Rooms: The medical programs need two simulated patient exam rooms connected by a door. Each room should have an exam table, wall-mounted cabinets and counter with sink, ceiling-mounted privacy drapes, a large storage cabinet, and a computer. The space should have a tile or hard-surface floor.

Each exam room will be stocked with supplies including a wall-mounted sharps container, blood pressure cuffs, thermometers, a nebulizer, lamp, physician's exam stool, and paper drapes, and pillow protectors for exams. Students will work with a variety of surgical/exam instruments and supplies, including syringes.

Exam rooms, which will serve as demonstration and practice area for lab groups as large as 10, will need to be somewhat larger than standard exam rooms to accommodate student groups.

Simulated ECG Room: A roomfor electrocardiogram screening, equipped with two ECG wood tables, two tables for multi-channel ECG machines, two tables for single channel ECG machines, and privacy screens or a changing area. The spaces should have a tile or hard-surface floor and a counter/cabinet with sink. A single central storage cabinet should be provided for these spaces.

X-Ray Room: The space should have an x-ray table, one phantom, and one wall bucky. It requires a shielded control panel and lead-lined walls.

X-Ray Dark Room: The program needs an x-ray dark room with space for the processor, a film bin, and a counter with sink.

Classrooms: The medical assisting programs need 4 smart classrooms (24-36 students each) with white boards, overhead projection, and a TV/VCR unit. Display materials include anatomical charts, skeletons, and mannikins. At least one of the four spaces should have portable 6-bank x-ray view boxes. This space can be shared

with the radiology programs. One small classroom should be near the dark room. All classrooms should have tables and chairs for students. Tablet arm chairs and narrow 18" tables are not acceptable.

Computer Lab: The Medical Assisting programs need a 24-seat computer lab. They prefer hexagonal computer work stations set up so that students cannot view adjacent monitors. Students need a quiet work area to practice transcription; it would be difficult for them to work in an open computer lab. This program has a separate server (a CPU) for its programs. Sixteen (16) ten-key machines should be placed on a wall-mounted counter on one wall. In addition, students will use 24 Dictaphones. Equipment should have a permanent location to prevent damage from frequent movement.

Lab--Blood Drawing Area: The lab area should have a 2-seat blood-drawing table with drawers. This space needs a counter with sink, drawers, and wall-mounted cabinets for supply storage. It should have a tile or hard-surface floor resistant to staining. This space requires lighting adequate for blood-drawing.

Lab -- Microscope Stations: The microscope work are should have a total of five workstations, including two tables (to accommodate two microscopes each) with four stools. The fifth work area should be a counter station that can accommodate 2 centrifuges (one for urine, one for hematocrit). This space will need a tile or hard-surface floor resistant to staining. It will require storage for supplies, including tubes, stain, racks, a sharps container, biohazard disposal, and other small equipment.

Lab -- Central Work Space: The central laboratory work area should have at least two double sinks with counter top work areas and wall-mounted cabinets. This space must accommodate a full-size refrigerator, an incubator, a Cell-Dyne automated cell counter, a Coulter automated cell counter, a hemoglobinometer, an A1C machine, and a Cholesteck chemistry analyzer.It requires a tile or hard-surface floor that resists staining.

Rest Room: The area should have a single unisex accessible rest room adjacent to the lab for urine specimen collection.

Faculty Offices: These programs have four full-time faculty who need private offices.

Central Work / Supply: The programs can share a central work/copy/storage area that can house a fax, a copier, and general office supplies.

Book Drop / Lockers: Students need book drops or lockers in a secure area that has access to instructional space.

Salt Lake Community College

program identity

The Medical Laboratory Technician Program, operated in partnership with the University of Utah, teaches two cohorts of 24 students.

The Medical Laboratory Technician program, sponsored jointly by SLCC and the University of Utah, trains students to perform clinical laboratory tests, work with other members of the health-care team and with patients, and monitor safety and quality in the lab environment. Graduates are eligible to take national certification exams offered by the Board of Registry of the American Society for Clinical Pathology and the National Credentialing Agency for Laboratory Personnel. Medical laboratory technicians may practice in a variety of settings, including clinics, medical offices, public health facilities and laboratories of many types, including hospital, commercial, biomedical, industrial, and research facilities.

space needs

The program can share basic lab space (phlebotomy stations, for example) with other programs such as Medical Assisting.

Advanced lab classes will probably remain at the University of Utah. If the Health Sciences Center has spaces equipped with biohazard protection (such as the anatomy lab), some advanced lab work might be done at the SLCC Campus.

The faculty coordinator should have an office on campus.

Providing a classroom space would give the program the flexibility to operate on the SLCC campus if the current partnership arrangement were ever cancelled. This classroom could be shared and used by other functions in the interim. If this space is not used for Medical Laboratory Technician courses, it would serve as growth space for other Health Sciences functions.

component functions

slcc jordan campus health sciences center

Salt Lake Community College

Salt Lake Community College

program identity

The Salt Lake Community College Nursing Program offers a two-year Associate of Applied Science degree in Nursing. Graduates are eligible to apply for the N-CLEX exam for registered nursing. After the first year, students can become licensed practical nurses. LPNs returning to school can obtain advanced placement in the associate degree program.

students

Salt Lake Community College currently has more than 400 students enrolled in the Nursing (RN) program. Each year the program graduates an average of 140 to 150 students.

class size

Nursing is a 4-semester program. Students are admitted twice each year. Lab sections have a maximum of 25 students. The program has a faculty:student ratio of 10:1.

faculty

The program needs offices for the program director, 2 program coordinators, 19 faculty, and a lab coordinator, as well as a shared space for 10 adjuncts.

~~educational approach~~

The nursing faculty demonstrate clinical skills to students, offers them opportunities to practice these skills, and eventually enables them to "pass-off" on required proficiencies. Students begin with models, then practice skills on each other and through computer simulation.

facilities requirements for accreditation

The National League for Nurse Accrediting Commmision (NLNAC) establishes the accreditation criteria for nursing programs. These criteria include the requirement that the program provide a teaching and learning environment conducive to student academic achievement (Standard III). Nursing programs must also ensure that students have access to support services -- including health services, counseling, academic advisement, career placement, and financial aid -- administered by qualified individuals (Standard III, Criterion 10).

Standard IV requires that the curriculum include "courses in the sciences and humanities" that "provide the foundation for nursing curriculum." Nursing programs must also provide technology "appropriate to meet student learning needs, course objectives/outcomes, and course requirements."

Standard V requires the program to have sufficient resources to accomplish the educational purposes. These learning resources must be "comprehensive, current, developed with nursing faculty input, and accessible to faculty and students." (Criterion 17). This means that the program must have "instructional aids, technology, software and hardware, and technical support" of "sufficient quantity and quality to be consistent with program objectives

and teaching methods." Assistance should be available for students and faculty who have dfficulties with technology. Learning spaces such as libraries, skills laboratories, and computer laboratories are required to be equipped with resources that are current, "adequate, and accessible." Physical facilities -- including classrooms, laboratories, multi-media facilities, conference rooms, and office space -- must be "appropriate to support the purposes of the nursing education unit (Criterion 18).

space needs

Simulated Patient Care Lab: This lab space offers students the opportunity to learn and practice basic nursing skills. In addition to class time, it needs to be available and staffed for open hours when students can come in for practice and remediation. Security or staffing is necessary because equipment loss can be a problem.

The existing facility simulates standard hospital patient room space. Each bedside should have heads for oxygen and suction; these do not have to be connected, but each lab should have at least one working oxygen and two suction lines to allow students to practice suctioning with mannikins that have an NG or chest tube. It would also be desirable to have a simulated intensive care unit. It might be desirable to create a double lab space with operable walls so that patient-care classes could be combined, or two lab classes could run simultaneously.

Small Classroom: The Nursing program needs an 18-20 person "smart" classroom with space for demonstration materials.

Large Classroom: The program needs a 36-40 person "smart" classroom.

Large Lecture Hall: The program needs access to a large classroom space that can accommodate 70 students.

Computer Lab: Nursing uses an instructional lab heavily. This is a teaching space, but it can be used for student study in hours when classes are not in session if a supervisor's office were located in or adjacent to the lab. Lab space might be shared with the Medical Lab Technician program. Nursing uses its current lab heavily for classroom testing; with an assessment center in the new facility, testing functions will presumably shift to the assessment center.

Critical Care Lab: The space should include a Critical Care Lab with space for a minimum of two exam tables, a cart, an EKG machine, and changing space.

Storage: The program currently has a storage area under the stairs in the Lifetime Activity Center at the Redwood Campus. The new facility must provide adequate storage areas for demonstration materials used in lectures and laboratories, as well as support for Nursing program staff

Faculty Offices: Faculty members each advise 15-25 students per semester. The new facility needs private offices for 19 faculty members, the program director, 2 program coordinators, and a lab coordinator, as well as shared office space for 10 adjunct faculty. Offices should provide a confidential

and safe environment for meetings with students.

Conference Space: The nursing program should have access to conference rooms.

Library/Media Lab: Students make heavy use of the media lab for study and remediation. Nursing materials must be purged every five years to ensure that students have access to current resources. Ideally there would be a dedicated health sciences library in the facility. If a central library were available in the facility, the nursing program would transfer all of its reference materials.

relationships

Like all of the health sciences programs, nursing will benefit from the networking opportunities available when the programs share a single location. The program does not share any facilities with the Radiologic Technology and Occupational Therapy Assistant programs. Its closest instructional relationships are with the Physical Therapist Assistant program and the Medical Laboratory Technician program. When these programs are located together, it might make sense to develop a joint introductory class that could teach basic health-care procedures like scrubbing and maintaining a sterile environment.

student wellness center / service learning

It would be highly desirable to have an in-house wellness center operated by nursing faculty. The clinic could offer basic well-care services, similar to those now provided at the Redwood Campus, which are not currently available to students and staff at the Jordan Campus because the site has no facilities for them. All advanced practitioners must spend time in practice to keep their licenses current. Current providers have training in general medicine, obstetrics/gynecology, and pediatrics. The wellness center would offer students an additional clinical setting. It would extend services to students and their families, and might provide some services to underserved groups in the local community.

component functions

slcc jordan campus health sciences center

Salt Lake Community College

program definition

The Occupational Therapy Assistant program (OTA) is a two-year course of study and field work that trains students to provide whatever cognitive, physical, or psycho-social skills patients need to function as productively and independently as possible in home and work environments. Graduates receive an Associate of Applied Science degree that qualifes them to take a national certification exam administered by the Nationqal Board for Certification in Occupational Therapy, which is required for licensure in Utah.

The program prepares students to work under the supervision of licensed occupational therapists in a variety of "settings such as acute care hospital, communtiy living facilities, home health agencies, community mental health centers, school systems, nursing homes, burn centers, and rehabilitation clinics."

The OTA program at Salt Lake Community College is the only program offering this training in the state of Utah.

staff

The program currently has two full-time faculty.

class size

The program admits 24 students each year. For lab sessions, the class splits into two groups of 12 students.

facilities requirements for accreditation

The Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association establishes the accreditation criteria for occupational therapy programs. Its guidelines provide that "classrooms and laboratories shall be provided consistent with the program's educational objectives, teaching methods, number of students, and safety/health standards of the instiution, and shall allow for efficient operation of the program." (AOTA Academic Affairs Standards for an OT Program, A.2.15) Standards require appropriate lab sapce (A.2.16), space to "store and secure equipment and supplies (A2.17), faculty offices "Consistent with institutional practice" (A.2.18), and space "for the private advising of students" (A.2.19). Students must have "access to the evaluative and treatment technologies that reflect current practice" (A.2.20) and "ready access to a supply of current books, journals, periodicals,computers, software, and other reference materials needed to meet the requirements of the curriculum" (A.2.22).

space needs

Classroom: The program needs a quiet space where students can learn collaborative skills. Instruction alternates between the lab setting and a classroom environment; the traditional formal lecture format is not heavily used, but faculty need a space that allows students to plug in laptops and has the capacity to support PowerPoint presentations. Lighting should be adjustable to function effectively for projection and student note-taking.

Salt Lake Community College

Because occupational therapists disperse to such a variety of settings, it is critical that they develop networks while they are in school. The classroom also functions as a quiet "home" area where they can explore professional issues and develop professional connections.

This space can be shared with other groups when not in use for the program. OTA faculty place displays in the classroom and see the presence of students from other disciplines as an opportunity to educate others about occupational therapy's goals and activities.

Lab: A large lab space with a variety of sub-areas allows more students to use the facilities and see demonstrations. Having a large open lab, however, can create some limitations. For example, the current kitchen demonstration areas do not give a sense of how a disabled person might work in a confined area. A system of alarms or movable barriers might suggest the size of a typical kitchen, for example, while still allowing visibility.

The lab needs the following sub-areas:

Sensory Integration Equipment

This space must accommodate large swing sets and fixed equipment used primarily for pediatrics. This area could also include mat tables and can be shared with Physical Therapy.

Arts and Crafts Area

The lab needs a project work area with good ventilation and easily maintained surfaces to accommodate a range of crafts and projects including art classes, woodworking, car transfers, weaving, basketry, and other crafts. The area should have a non-porous, non-slip tile floor. Finishes should be able to withstand glue, sawdust, and other messy project materials and debris. The area should have a sink, adequate ventilation for woodworking and fumes, power strips, and outdoor access. The door must be able to accommodate bulky materials and supplies. The space should have lockable storage and OSHA-approved storage for paint, stains, and shop materials. The work area must accommodate easels, drying racks, looms, and work tables. A kiln would be desirable. This area can be noisy and should be separated from quiet project areas.

ADL/Home Environments

The lab needs demonstration areas with typical home equipment, including a kitchen area with appliances(oven, microwave, sink, cabinets, small appliances); a bathroom area with toilet; and a bedroom area, with a bed, chair, and desk/writing area.This area must be visible to a group of students working in a lab and have access to a storage area with drawers, shelving, and cabinets for equipment. It should have convenient access to the storage area for wheelchairs and other equipment.

Splinting Area

A splinting area should accommodate lab groups of 12 students at a time. Students use splinting pans (similar to

Salt Lake Community College

electric frying pans) and special irons to melt thermoplastics. These need counters with durable surfaces, access to water, and power strips Lab counters should be fully accessible to the disabled. This area should also have storage space alarger than the existing cabinet.

Other Therapy Options:

One program faculty person currently practices therapeutic riding and hippo-therapy, using horses to help patients achieve functional ability. A horse barn and arena, where patients could learn to stable and care for horses, would be desirable. This could occur at a leased facility off-site.

A space for pet therapy might also be desirable.

An outdoor raised-bed garden area with equipment storage would allow the program to demonstrate horticultural therapy.

Computer Lab: Students need 24-hour access to computer facilities. OTA must be able to schedule a lab classroom area for student class times. The current lab also houses computers for the Disabled Resource Center. Occupational therapy students may do assessments for the DRC. The two share assistive technology and share a space. Occupational therapy students benefit from the opportunity to encounter students with a range of disabilities. This computer area must be fully accessible for students with disabilities

The computer lab also doubles as a student library. It contains a filing cabinet for student use, with an honor-system checkout. These materials could be placed in a library elsewhere in the building provided that the library were accessible to students between classes and open extended hours for student study.

The existing computer space has no functioning air conditioning.

Confidential Assessment Area: The program needs a space within or adjacent to the computer lab that can provide privacy for confidential assessment of patients with disabilities. This space should be approximately 16' x 24' and have the capacity to accommodate 3 people.

Storage: The program currently has a 24' x 16' storage area that houses wheelchairs and other assistive technologies; equipment and materials for wood-working, sewing, and crafts; and materials for a range of projects from rebuilding wheelchairs to ceramics.

Faculty Offices: Full-time faculty need private offices suitable for confidential conferences, with sound control.

Information Posting: The Occupational Therapy area should have a space where the department can post information about current events, program requirements, and service opportunities. A table or rack for displaying brochures, magazines, and information sheets that students may pick up is desirable. While the primary function of this space is to provide information to majors, others in related health sciences fields share interests with OT students or

may have an interest in learning more about OT.

A small pool for water therapy would also be desirable.

The lab does not need to replicate every possible environment. Part of the students' clinical experience will occur in the community, and the program values the exposure it gains by going out into the community. Faculty do not want the facility to be so self-sufficient that students will never have experience out in the community. Students, for example, currently conduct craft groups at Valley Mental Health.

clinic

An occupational therapy clinic would offer the program the opportunity to provide cliniclal experience on campus and to extend services to the community.

Because occupational therapists work in such a wide variety of settings, the program will continue to place students off-campus for field work. The on-campus clinic would offer a place where students could have initial experience with service learning. It would also allow the program to offer services to the public such as training in falls prevention, family therapy, and student service-learning projects. It should include facilities for classroom education with Power Point and screen projection.

Salt Lake Community College

program description

The Pharmacy Technician Program is currently a one-year certificate program offered under Continuing Education. Salt Lake Community College uses shared space in the Jordan Education Center for the program. The high school uses the space in the daytime, running one group of 30 students in the morning and another in the afternoon. This means that the College can only offer evening courses.

growth and demand

Many of the high school students who take the pharmacy course would like to continue their studies, and the College would like to be able to offer them a seamless transition. The 60 spaces allocated for high school students do not meet current demand. Students are enrolled from as far away as Tooele and Grantsville. The high school program has grown by 1/3 in the past year. Most students have higher than average grades and view this course as a gateway to higher education, not as training for entry-level employment.

space needed

Classroom: The Pharmacy Tech program will require a 30-person classroom.

Computers: The existing classroom has banks of computers at the sides. They now have 20 computers for 30 students; ideally there would be one computer for each student since the curriculum is computer-intensive. The most convenient arrangement would be to have the computers in a separate area, but they would need to be available to students throughout the scheduled class periods for instruction and practice.

Simulated Pharmacy: Adjacent to the classroom, separated by a lockable roll-down wire grille, is the simulated pharmacy lab. It has shelves stocked with the items a typcial pharmacy would carry, but the bottles contain placebos.

Faculty Office: The faculty office space houses one faculty member for the high school program during the day and one for the College program in the evenings.

Adjunct Work Area: The space should include an adjunct work area. Initially, however, the full-time faculty member will teach the beginning lab because of staffing limitations.

component functions

slcc jordan campus health sciences center

Salt Lake Community College

program definition

The Physical TherapistAssistant program is a 3.5 semester series of laboratory and clinical courses that prepare students to practice as physical therapist assistants in a physical therapy clinic in the state of Utah. This is the only public program serving the entire state.

The program is accredited; the next accreditation review will be in 2009.

This program creates highly marketable graduates: there are currently 23 unfilled positions for physical therapist assistants in the Salt Lake Valley.

class size

The program currently has 24 students in lecture; it is accredited to have as many as 30-36 and will grow. Labs are limited to a maximum of 16 students.

clinical sites

The program relies on a base of 60-80 clinics that provide experience for students; these are scheduled one year ahead.

staff

The Physical Therapy program should have 4 faculty offices.

growth

The Physical Therapist Assistant program might develop a shared fitness technician program with health sciences and physical education. An aerobics / weight training area would be needed to support this program. This space could be available for public use when it was not scheduled for classes.

The program has also considered establishing a weekend session and a program to support rural education. Currently sessions are offered only during the daytime.

hours of operation

The program runs lab sessions from 8:00 to 9:00 a.m and 9:00 a.m. to 3:00 p.m. Monday thru Thursday and from 5:00 to 7:00 and 7:00 to 9:00 p.m.two evenings per week. During non-scheduled periods, students come in to use the lab for practice and study.

relationships and sharing

Physical Therapy and Occupational Therapy can share space and resources. Currently, however, the two programs offer classes and lab sessions at the same times. Enrollment and scheduling thus may limit the extent to which they can share. With additional more appropriate teaching areas, it will be more convenient for the two programs to share faculty resources and further develop joint student learning experiences.

space needs

Main Lab: The lab should have wide access doors to permit installation and movement of large equipment. Walls must be reinforced to accommodate pull-down mat tables. All outlets should be 4-plexes. Beams should be equipped for the installation of ceiling

Salt Lake Community College

hooks that can support 300 pounds each. Electrical raceways should be provided in the floors. Wall outlets need to be placed at a high level. Wide access doors should be provided to allow the movement of large equipment. The lab space should have ample cupboards large enough to accommodate equipment. The current lab has 2 pull-down mats; 4 are needed. The lab needs a sink with a tall gooseneck and a casting drum. A 9' ceiling is adequate, but 10' would be preferable.

The lab needs a large floor area where separate training areas can be set up. It should have one private treatment booth.

Second Lab: The program runs two labs simultaneously. The secondary lab should have a sink, a counter with banks of drawers, and wall cabinets but does not need to accommodate as much large equipment. It will primarily be set up with plinths. It should have a pull-down table and mat racks, which will require special bracing in the wall. It needs storage for models and a wide access door to allow staff to bring equipment in. This lab should be double the size of the existing secondary lab. At least two walls should have extra outlets for equipment.

Hydro Therapy Room: The program needs a hydro facility adjacent to the main lab. It should have high-boy, low-boy, and extremity therapy tanks. Tubs should have automatic mixers. The space should have a non-slip tile floor and wall cabinets for supplies. It should include a client changing area with wall cubbyholes for client belongings.

Therapeutic Pool: A pool for aquatic therapy would be highly desirable; graduates with this expertise are in high demand. This space could be shared by PT, OTA, and other health science programs. A pool for fiteen, with access ramps and a lift, would be sufficient. Commercial therapeutic pools of an appropriate size to meet this need are available. One claims to provide adequate space for as many as 8 patients in 250 square feet or less.

Bathroom: Physical Therapy needs a fully accessible bathroom with a tub and a roll-in shower, which could be shared with Occupational Therapy. This space will be used for instruction so it needs to accommodate student lab groups. If it were placed near the pool and hydrotherapy room it could serve multiple functions.

Travel/ Movement Training Area: The program is currently seeking donations to create a travel training program. This program would create a simulated outdoor environment with curbs, ramps, stairs, doors, sidewalks, gravel, and other impediments. This space will enable students to learn how to teach others to maneuver through the range of environments they will encounter in the community. It could be located in an open common space in the building.

The Physical Therapist Assistant Program also needs space for a hospital bed with oxygen and medical gas hookups. This space will be used to simulate an acute care setting to allow students to practice bed transfers and treatments. This space may be shared with the Occupational Therapy Assistant program.

Salt Lake Community College

Aerobic and Resistive Exercise Room: The program currently uses facilities and exercise equipment in the Lifetime Activity Center on the Redwood Campus for instruction.

Storage: The program needs a huge storage area to accommodate bulky equipment and supplies. A wall should be provided for crutch storage. The program has a steel frame with storage for wheel chairs below. The ideal location for the storage area is between the two labs, with access to each. This bulk storage area could be shared with OTA, which also uses wheelchairs and transfer boards.

Student Lockers and Changing Area: The program needs one men's and one women's locker room (required for accreditation). Currently the program enrolls 22 women and 2 men, but those proportions may change. Lockers for males and females should be nearby but not adjacent to each other for security reasons.

Classroom: The program needs a classroom with tables and chairs for 36.

Faculty Offices: The program needs 3 private faculty offices with technology components appropriate for the development of a wide variety of learning and teaching tools.

cllinic

Current Physical Therapy students must go into the community to gain clinical experience, and they cannot work in community clinics until they have essentially completed their course work. An on-campus clinic would permit students to gain isntrocductory clinical experience earlier in their education. The Physical Therapy clinic would also meet the needs of the Jordan Campus baseball team. The clinic area and its clerical support could be shared with Occupational Therapy.

The clinic must be fully accessible. It needs clerical support from the program secretary. Physical Therapy should have a check-in area and desk with "a few chairs."

component functions

slcc jordan campus health sciences center

Salt Lake Community College

Salt Lake Community College

program identity

Salt Lake Community College's Radiologic Technology program is a five-semester program. Students earn an AAS degree. The program currently runs two cohorts of students in the daytime and has plans to add a faculty member to run an evening program.

students

The program accepts a maximum of 35 students for daytime sessions and a slightly smaller group for evening sessions. Capacity for 40 students per group would be ideal. Students are admitted annually for the daytime program, every two years the evening session.

faculty and staff

The program now employs two full-time faculty; if evening sessions are offered, the department will add a third instructor. The program relies on clerical support from the division offices.

technology

The program's current energized x-ray unit is a traditional analog unit. It has acquired several digital processing units. Because the equipment is not "state of the art" students prefer to complete their assignments at hospitals that have modern equipment or to go home and use their own computers. The program should have current digital technology, but it may also be useful to retain the analog unit since students are likely to encounter analog units in their careers and need to be exposed to the older technology as well as the new.

growth

The program is expanding to offer an evening session. It could also teach classes in basic patient care for all health sciences students.

The curriculum could expand to cover many related modalities, including Computer Tomography (CT), Magnetic Resonance Imaging (MRI), Sonography (Ultrasound), Nuclear Medicine, Radiation Therapy, Special Procedures (Angiography), and Bone Densitometry. Courses in these disciplines would allow students to pursue a specialization in the second year of the program. Adding these courses would require the use of outside specialists, who would function as adjunct faculty. Development of these programs will be based on market demand.

Some of the more expensive equipment, such as MRI scanners, might be simulated. Manufacturers may have stripped down models available for instructional use.

location

The x-ray room needs full lead shielding; a corner location on an upper floor is ideal because it minimizes the area that requires full lead shielding.

Faculty prefer a location with ample windows; both faculty and students spend long blocks of time in this space, so access to natural light is important for them.

relationships

The Radiologic Technology program can

share space and equipment with any SLCC program that uses radiology.

The program is supported by a network of professional partners including Jordan Valley, St. Mark's, University, LDS, IHC, Primary Children's, and VA hospitals. These partners have encouaged the College to develop additional programs to meet community needs. In the future, existing partnerships could be enhanced and others created to establish scholarships for students, provide more flexible clinical scheduling, and enhance educational opportunities.

The College might also consider establishing a mentoring /shadowing program to increase student awareness and improve recruitment. If the prerequisite classes necessary for admission to Radiologic Technology were offered under concurrent enrollment, high school students could become familiar with the program and enroll earlier.

space needs

Faculty offices: Faculty should have individual private offices with desks, files, and shelves. Having space for large radiographic files in the office would be ideal; if necessary, these files could be in a central work room. The coordinator currently has 3 standard files in her office. Faculty typically prefer having a separate computer desk area adjacent to their desks. Offices should be located in the teaching area, near the lab so that faculty can observe and assist students if necessary, but with enough separation to permit faculty to continue their own work. The office area should have a direct exit to the corridor; the current arrangement, where faculty must walk through the classroom to reach their offices, is not desirable. Each office should be equipped with phone, computer, and printer. At least one office will have a scanner. Faculty typically meet with one to two students in their offices at a time.

The program will need space for adjunct faculty; this can be a shared office.

Classroom: The Radiologic Technology program uses a classroom from early morning until mid-afternoon and again for evening sessions. The classroom needs to be set up with illuminators on the walls, portable illuminators, and other equipment that is too bulky and heavy to be moved easily. It should be adjacent to lab and storage areas. Large tables and chairs should be provided. Students use this space as a "home base" and spend large blocks of time in it. It would be desirable to have windows and to provide a storage area for backpacks, coats, and personal items. The ideal situation would be a self contained suite that included lab, storage, and office areas to ease movement of supplies, materials, and students from one space to another. In the current location, computer units are placed at the rear of the classroom. It would be desirable, particularly as the program acquires additional digital equipment, to place these in a separate lab area adjacent to other instructional spaces. The classroom should have a minimum of 4 banks of wall-mounted view boxes. Ideally there would be one view box for every 4-5 students. The space should have a wall-mounted pull-down screen, a smart board, and mounted TV, video, and Power Point projection.

Salt Lake Community College

When instructors administer tests, students finish at their own pace; those who finish early benefit from being able to move on to other activities within the program space.

Radiology Lab: The lab space, which could be shared with the Medical Assistant program, needs to include an energized x-ray room, an area for computed radiography (CR) equipment, a control booth, and a darkroom/ processing area. The space needs to be large enough to accommodate groups of 10 students observing the procedures. It should have sufficient clearance to allow students to practice maneuvering stretchers and wheelchairs around the x-ray table.

If the lab were staffed, it could be used for study when classes are not scheduled. Students should not have unsupervised access to lab areas because of the risks posed by the technology.

Lab equipment will include an x-ray tube, an x-ray table, a vertical grid device, mannikin, control panel, and storage for lead aprons, shields, and gloves. The x-ray area must have lead shielding on all surfaces adjacent to occupied space. The central x-ray machine has fixed tubes and must be placed a minimum of 6' from the wall unit.

Windows from the existing lab into the classroom area are desirable.

Dark Room: A 6' x 8' area is adequate for the dark room. At most one instructor and 2-3 students are in the space at a time. This space needs to accommodate a processor with a hazardous train, a sink and counter, and a red light. It can be shared with other health sciences groups.

Control Panel: A lead-shielded control area should be provided outside the x-ray area, with a shielded window into the area.

One wall-mounted viewing box should be provided in the area adjacent to the darkroom and control panel. This space could become an open instructional area that included digital x-ray work stations.

Computed Radiography (CR) Area: Currently the digital radiography equipment is located at the rear of the classroom. Ideally this equipment would have a separate area.

Storage: The program needs storage space for student files, large-format x-ray files, mannikins, skeletons, reference materials, and equipment including lead shields. An organized system sized to accommodate this body of material would help to create a more professional environment. The program will also need to store a wheelchair and stretcher to enable students to practice patient care.

Each faculty member should have a film drawer file. These files could be located either in individual offices or clustered in an adjacent area, but they must be close to the office areas because the materials are heavy.

The storage area must be secured. Skeletons, mannikins, and other materials are costly and fragile.

Posting Space: The program needs space in a dedicated classroom or the lab area.

shared spaces

Student Lounge: Students should have convenient access to a lounge area, ideally adjacent to the lab area.

Salt Lake Community College

Computer Lab: Students need access to computers, which could be shared will all health science programs.

Group Study Rooms: Students work in groups and would benefit from having some group study areas in the building. Instructors assign group projects that require collaboration.

Radiology Clinic: This space could be part of a clinic serving other similar health sciences programs. Students could staff the clinic and perform x-rays, gaining valuable clinical experience while providing a service to the SLCC community. To operate a clinic, the College would have to have a partnership with a radiologist who would supervise students and read the radiographs for patients.

Library: The Radiologic Technology program maintains a significant volume of materials (periodicals, CDs, videos, and books) needed as a student resource. Ideally this material would be part of a shared Health Sciences library.

Salt Lake Community College

program Identity

The Surgical Technology program prepares students to work in hospital operating rooms. Over the course of the year-long program, students learn a series of skills:

- recognizing and passing instruments
- sterilization
- aseptic technique
- assisting during an operation
- caring for instrumentation
- cleaning up the operating room

Students receive a certificate upon successful completion. This qualifies them to work in an operating room environment, but does not qualify them to advance to a higher position within the hospital. While Surgical Technology is a terminal program, a significant number of students use it a stepping stone to other health sciences careers, such as radiology and nursing.

The typical surgical technician works in the field for 4-5 years before moving on in search of higher wages or a less stressful job. More than 80% of the SLCC program graduates end up working on the Wasatch Front.

Programs are offered both by hospitals and by academic institutions. Some offer a two-year associate degree in surgical technology, which typically will require additional general education classes. SLCC has considered offering an associate degree, but concluded that for the time being wages for surgical techs have not risen enough to justify an additional year of education.

program history

SLCC's Surgical Technology program, the largest of four in the state, was established in 1976 The state has also established a competitive program at the Davis Applied Technology Center.

program size

Each year Surgical Technology admits one group of approximately 18 to 21 students. The program also serves high school students: health occupations classes from area schools come in to view demonstrations. The department may have 2 groups of 30-40 students scheduled at different times throughout the day. If requested, instructors will visit area schools to demonstrate.

staff

The program currently has one full-time faculty member and one adjunct to serve 18-21 students.

program growth

This is a high-demand program which places more than 90% of its graduates immediately. There are currently more jobs in this field than the existing programs can fill. At least one full-time coordinator and an adjunct lab assistant are required for each group of students. The two major obstacles to accepting additional groups of students are the additional cost for an adequate number of instructors and the difficulty of finding clinical placements for students. At present, staff do not anticipate having more than

one student group each year. The program has also explored the possibility of offering evening theory classes targeted at those who have had hospital experience but are not eligible to sit for the national certification exam because they lack academic credentials. Distance education generally will not offer an acceptable alternative for Surgical Technology programs, which require a high level of hands-on experience. Some lectures might be delivered or archived electronically for convenient online access, but typically students need to be in the classroom to observe demonstrations and practice using the equipment.

medical trends that affect surgical technology

Two trends in medical research and patient care will affect the direction of future surgical technology programs: minimally invasive surgery and robotics. Minimally invasive surgery, first performed in 1984, has become increasingly common. Where 20 years ago, most gall bladder surgery was a highly invasive process that required extended recuperation. Today a gall bladder operation is rarely an open procedure. Procedures that may use minimally invasive surgery now include hernias, appendicitis, gall bladder, bowel resections, hysterectomies, and some other surgeries of the spine and heart. While open procedures will still be used regularly for as much as twenty years, and some conditions may continue to require more invasive techniques, minimally invasive surgery is popular because it speeds patient recovery, reduces pain, and enables patients to return to a normal routine more quickly. SLCC's Surgical Technology program now has some equipment used for minimally invasive surgery, including a camera, scope, light, and monitor.

The second major medical trend is the increasing use of robotics, often in combination with minimally invasive techniques. Robotic surgery relies on a robotic arm to perform intricate procedures, controlled by a surgeon in a remote location viewing a monitor or using a special helmet with a video view. Like non-invasive surgery, operating with robotics has a steep learning curve. At this point, robotic arms are used mainly for comparatively minor procedures, but the number of procedures that can be performed using robotics continues to grow.

Laser technology has also had a major impact on surgical procedures.

student study

Students study in groups and need access to lab areas practice with instruments It would be desirable to have access to a medical library with copies of textbooks and other resources..

space requirements

The character of the space is important: the more closely the simulated lab space resembles a real operating room space, the better prepared students will be to function

in the professional environment when they leave the program.

Minimally invasive stations: The lab should have at least two minimally invasive stations. Ideally they would be designed in movable posts. They could also be built into the walls.

Laser demonstration area: Equipment representatives now come in to demonstrate laser technology to students. Ideally the program would have a functioning laser station, which could be shared with Biotechnology and Medical Assisting.

Sub-sterile area: Students need access to an area with 6-8 large scrub sinks. Sinks should be splash proof and have knee controls and temperature controls hospital sinks. Ideally this area would have swinging doors like those in real operating areas. The existing sink does not resemble those actually used, so it is of little use in instructing students. A sub-sterile area should also include at least two working steam autoclaves. The program now has a non-working autoclave that is used for demonstration purposes. It is of fairly recent manufacture and would be retained. Surgical Technology could share a single sub-sterile area with Medical Assisting and others who need these functions. It would be preferable to have a single, state-of-the-art area like those in local hospitals, instead of having multiple small areas that do not adequately reflect hospital conditions.

Simulated Operating Room: Ideally the simulated operating room area would be identical to a hospital operating room.
Classroom: Surgery Tech needs a tiered teaching space equipped with an LCD projector.

Office: The program coordinator needs an office, ideally within or adjacent to the lab area.

Equipment

The operating room lights, donated recently by the University during a renovation, will be taken to the new facility. Each light would cost approximately $50,000.

Two working steam autoclaves would be adequate for this program and probably for sharing with others that have similar needs. Additional units might be needed if the facility has a working clinic. Autoclaves need power and plumbing for steam; maintenance contracts should be obtained for all autoclave units.

The operating room needs outlets at 5' height, suction, oxygen, and medical gas hookups. Ideally it would have an anaesthesia machine, or at least an old, non-functioning unit for demonstration purposes. A linoleum floor would be sufficient.

There should be swinging doors connecting the operating area and the scrub area.

Two operating tables are adequate as long as the program has only two instructors. They split students into small groups with an instructor at each table to observe. Nine

hundred square feet should be adequate for two tables and lights. Both tables can be in a single room, but it would be desirable to have a folding partition so that it could function as two separate areas.

storage

The space needs ample storage to accommodate models, equipment, linens, and other materials. Students do not currently change into gowns because no space is available, but if space were available changing would better simulate real conditions. Students should have lockers , which could be in a shared area.

Classroom space needs storage for some models and library materials used in lectures. The program's collection of videos and CD-ROMs could be placed in a shared library facility.

audio-visual resources

The program has access to a wide variety of resources that can help students understand the "real world" environment in which they will practice. The web site www.netsurgery.com shows surgery occurring in real time. Local hospitals may have resources available: St. Mark's orthopedics, for example, has a dedicated operating room with cameras to record surgery for playback to professionals and students. The American Medical Association and the Utah Medical Association have their own EDNET-type broadcast system, which transmits materials via satellite to local hospitals for in-service training. With satellite and/or EDNET capacity, SLCC programs might be able to access these resources.

Salt Lake Community College

service definition

The Jordan Campus Nurse-Run Clinic would be designed to provide basic health care services to Salt Lake Community College students, staff, and families, and to serve underserved populations in the surrounding community. The clinic would involve collaboration with all of the health sciences programs to provide direct patient experience for students and to offer faculty the opportunity to maintain their clinical skills.

service population

With an average age of approximately 25.5, the Salt Lake Community College student body tends to be older than the typical entry-level college student. Most thus are not covered by parental insurance. Many, if employed, work at temporary student jobs that do not provide benefits. The College also has a high ratio of foreign students without health insurance in this country.

The community served by the clinic also hosts underserved populations that might be drawn to the College for services. Local schools now have only one registered nurse for every 10,000 to 15,000 students. These nurses obviously cannot provide extensive care. A significant percentage of the local population has no health insurance and no personal doctor.

models

Staff identified nurse-run clinics operated by colleges in Iowa, Maryland, Louisiana, and Oregon. Some clinics offer mobile service to the community; some are based in elementary or secondary schools; and some provide primary care services. Larger facilities are typically run by medical schools or nursing programs and offer a wider range of services than the College would contemplate.

Many nurse-run clinics also provide mobile facilities to bring care to the community.

program growth

The clinic needs to identify its potential long-term growth and expansion needs, since if a clinic is established in this building, it is not likely that it will ever be relocated. One approach might be to expand mobile services when the Jordan Campus facilities reach capacity. Another way to handle growth is to operate the clinic for longer hours and/or more days per week as the demand grows. Staff will review the growth issues to identify how large a facility might be needed to serve student population at build-out. This clinic can be expected to generate much heavier traffic than wellness centers on other SLCC campuses, which offer services only to students, not to families, staff, or community members. It is also likely to attract more children, which may generate a need for a special children's area in the waiting room.

With 4 exam rooms, health center staff could essentially handle 16 people per hour for basic exams and services. Staff typically schedule patients for 10-15 minutes. Volume in the radiology and lab areas would depend on the number and types of patients being seen, and the percentage who require additional testing.

Salt Lake Community College

space needs

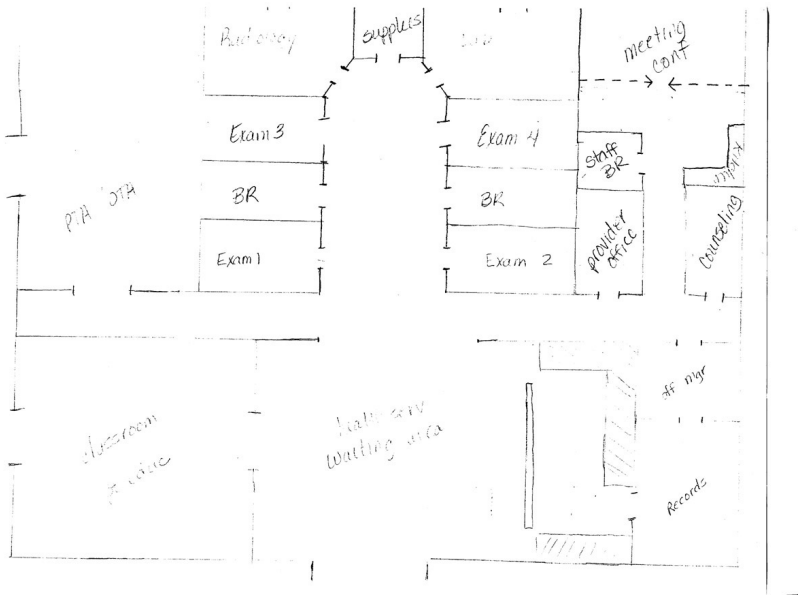
The sketch below shows the space defined by the nurses. It should include 4 exam rooms, adjacent to 2 wheelchair accessible restrooms, a radiology area, and a lab, with storage. This area should allow patients to enter from the front, with separate access from the rear for students and teachers.

Adjoining this space, and accessible from a common waiting area, should be a clinic for physical and occupational therapy. Staff will need a meeting/conference area, restroom, and break area with small kitchen.

A shared provider office should be large enough to accommodate one provider from each discipline, provide space for personal storage, hookups for laptops, and an environment that allows team collaboration. An office in the staff area should be designed for mental-health counseling. Patient-care areas should be large enough to accommodate one to two students and an instructor in addition to the patient and clinical staff.

The clerical area should have an open counter with space for 3-4 staff and medical assisting students. It should open onto an enclosed secure records area. A private office should be provided for the office manager.

A classroom for patient education should be adjacent to the waiting area, with the capacity to operate extended hours. Patient education sessions need to be held consistently in a single location adjacent to the clinic. Successful education programs require consistency and a central, visible location that is easy for first-time visitors to find.



Behind the clinic area, students should have lockers, changing areas, storage for instruments and medical equipment, scrub space, and other support space.

biotechnology technician

slcc jordan campus health sciences center

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component functions
slcc jordan campus health sciences center

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#	space	user capacity	quantity	nsf each	total nsf	total unassign-able sf	total gsf
01	Classroom Seats	40	1	1,200	1,200		1,200
02	Class Laboratory	24	1	1,000	1,000		1,000
03	Cell Culture Laboratory	18	1	1,000	1,000		1,000
04	Prep Room	10	2	200	400		400
05	Walk-in Freezer		1	80	80		80
06	Walk-in Cooler		1	80	80		80
07	Large Equipment Room		1	400	400		400
08	Faculty Office	1	2	100	200		200
09	Adjunct Work Space		1	200	200		200
10	Small Conference / Faculty Growth		1	200	200		200
11	Storage		1	200	200		200
12	Pre-Biotechnology Growth Area	24	1	1,600	1,600		1,600
TOTALS					6,560		6.560

Salt Lake Community College

biotechnology technician program

01 biotechnology technician large classroom

slcc jordan campus health sciences center

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summary	
space type	classroom
net sf each space	1,200
total of this type	1
assigned users	40
visitors	visiting professionals
functions	classroom instruction

location and relationships	
location	upper level
proximity	biotechnology lab areas
access	Jordan Education Center
security	department control of equipment and experiments in process

finish	see Jordan Campus Design Guidelines
materials & finish	painted gypsum board static-free carpet or vinyl tile

electrical	plus power for equipment listed
power	220 for large equipment student laptops, instructor podium minimum one double duplex each 12'; ceiling camera mounts, rear wall capacity for plasma screen
phone	Internet access
data	hook-ups for student laptops; instructor console
video/tv	ceiling mounted projection capacity for EDNET send/receive

lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboards; direct light oni instructor area; avoid conflict with sight lines for projection
task lights	at instructor console
controls	at instructor podium

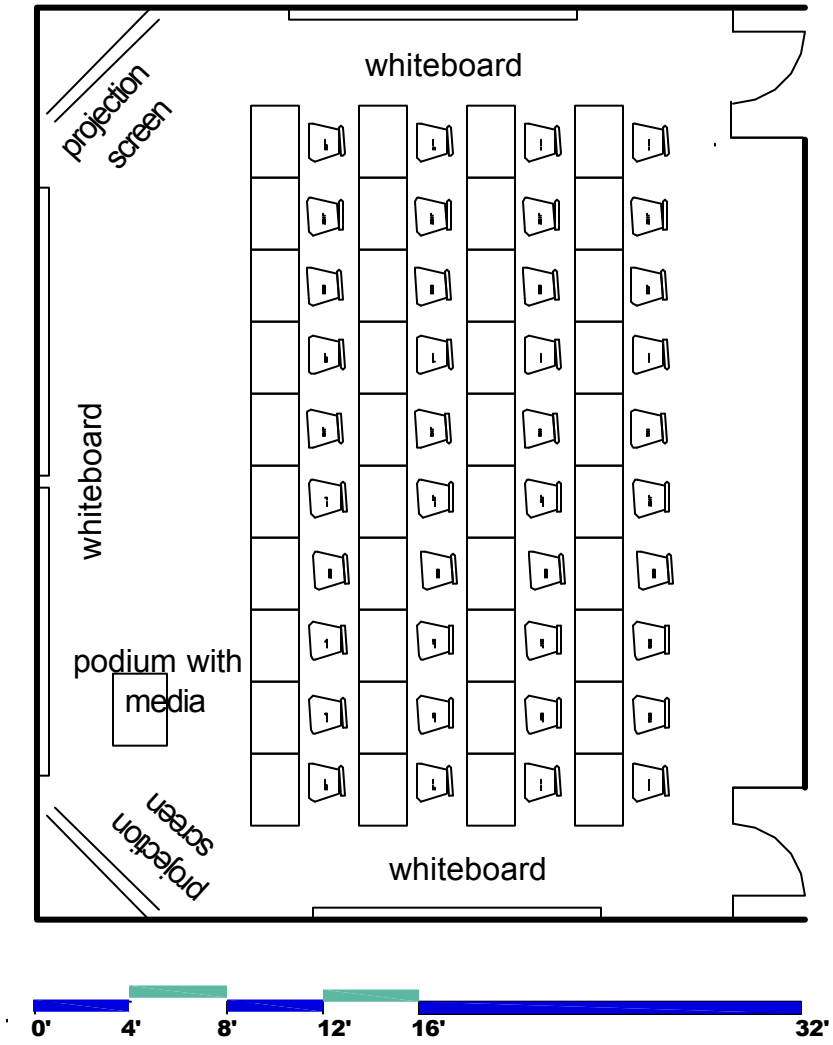
sound control	
stc	45-50
full sound walls	no

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	in adjacent prep room
med gases	possible at instructor demo area
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

hazardous materials	
	may be present in demonstrations

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor console			
4	whiteboards			48” x 144”
2	projection screen			48” x 60”
	tack strips			
	tack boards			
movable furnishings				
40	student desks			20” x 36”
40	student chairs, armless, on casters			
2	waste cans			14”
equipment				
40	student laptops			
1	clock linked to campus master			
1	document camera			
1	permanent desktop computer w/ flat screen monitor at podium			
1	VCR			
2	DVD p;ayers			
1	switching system			
	audio speakers			
space notes				



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summary	
space type	laboratory
net sf each space	1,400
total of this type	1 (plus additional future lab in pre-biotechnology growth area)
assigned users	20-24 students
visitors	visiting professionals
functions	lab instruction / practice

location and relationships	
location	upper level
proximity	biotechnology classroom, prep and storage areas, faculty offices, freezer and cooler area
access	Jordan Education Center shared prep area
security	department control of equipment and experiments in process

finish	see Jordan Campus Design Guidelines
materials & finish	durable, chemical resistant benches avoid speckled surfaces that interfere with visibility standard vinyl/linoleum tile is acceptable for flooring

electrical	plus capacity for equipment listed below
power	220 for large equipment; power strip or multiple 4-plex at side counters and bench areas
back-up	life safety generator; selected outlets for experiments in process, refrig. units, large equipmnent
phone	Internet access at benches
data	hook-ups for student laptops; instructor console; EDNET send / receive capacity
video/tv	ceiling mounted projection

lighting	
natural light	desirable with light control for a/v uv protection at windows to reduce heat gain on lab equipment at site benches
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at instructor console
vcp	70
controls	at instructor console

sound control	
stc	50
full sound walls	yes

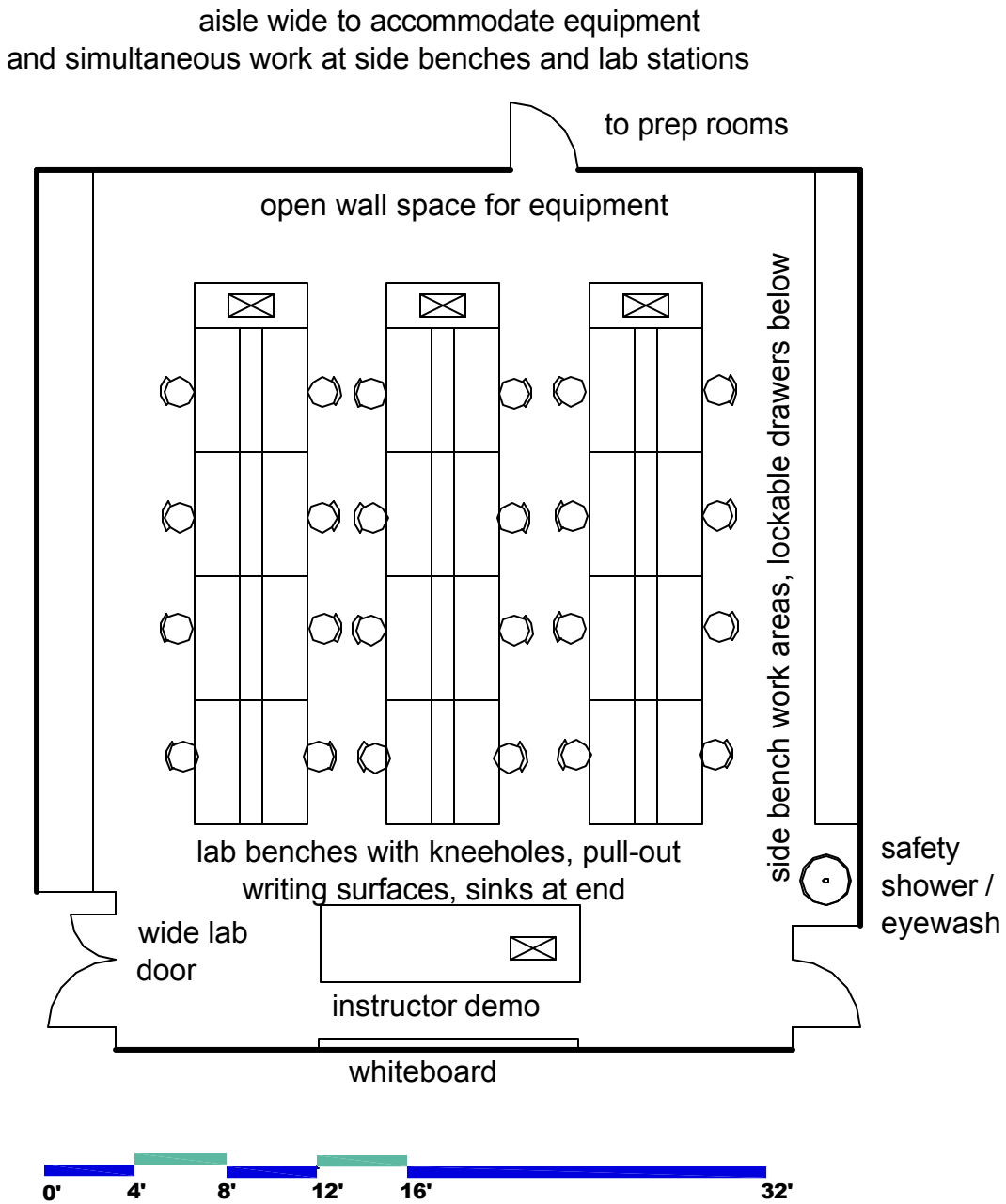
mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no special ventilation required
fume hoods	in prep areas, not required in lab
gases	central vacuum, air, gas, and CO2 distributed at lab benches distilled H2O in prepa areas
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	lab sinks, floor drains minimum 2 metal drains that can accommodate disposal of dry ice larger sinks at bench ends with high spigots

hazardous materials	
	program does not do work that involves pathology, human tissue, or radiation.

qty per room	item	in contract y	in contract n	dimensions
built-in fixtures				
	instructor console	■		
1	whiteboard	■		48” x 96”
	tack strips	■		
	tack boards	■		
20	lab bench stations with pull out writing surface, lockable drawers, and kneehole	■		5’ modules
	side benches with lockable drawers	■		
	ceiling projector mounts	■		
movable furnishings				
	waste cans	■		
equipment				
20-25	student laptops		■	
1	clock linked to campus master	■		
	demonstration equipment at instructor console; large equipment at perimeter or in separate adjacent space			

space notes



03 biotechnology technician
slcc jordan campus health sciences center
cell culture lab

Salt Lake Community College

summary	
space type	laboratory
net sf each space	1,000
total of this type	1
assigned users	16 -18 students
visitors	visiting professionals
functions	lab instruction / practice

location and relationships	
location	upper level
proximity	freezer and cooler area
access	Jordan Education Center shared prep area
security	department control of equipment and experiments in process

finish	see Jordan Campus Design Guidelines
materials & finish	

electrical	plus capacity for equipment listed below
power	220 for large equipment; power strip or multiple 4-plex at side counters and bench areas
back-up power	2-3 receptacles, refrigerated units and equipment area
phone	Internet access at benches
data	hook-ups for student laptops full EDNETsend and receive capacity, w/ capacity for mobile podium
video/tv	capacity

lighting	
natural light	desirable with light control for a/v protection at windows to reduce heat gain on lab equipment at site benches
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	no
controls	

sound control	
stc	50
full sound walls	yes

mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	for upright autoclave and fume hoods
fume hoods	6-7 laminar flow hoods (6')
gases	central vacuum, air, gas, and CO2 distributed at lab benches distilled H2O in prepa areas
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	lab sinks, floor drains

hazardous materials

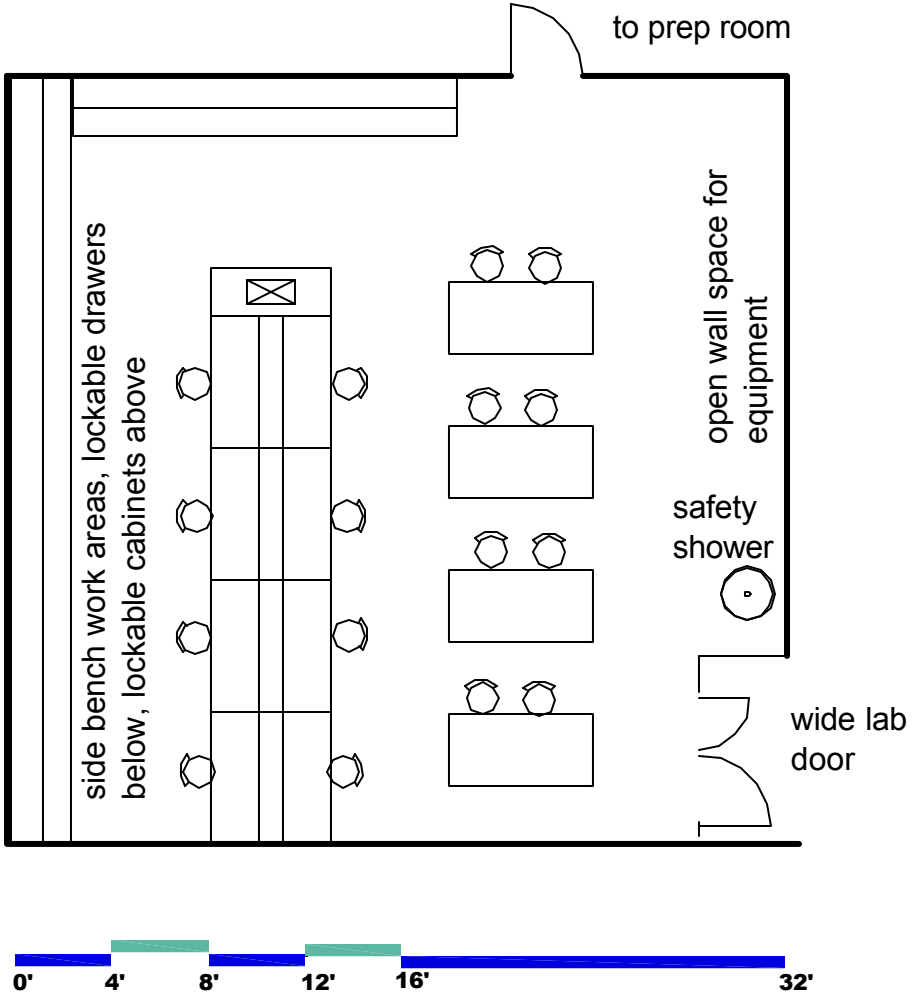
program does not do work that involves pathology, human tissue, or radiation.

qty per room	item	in contract y	in contract n	dimensions
built-in fixtures				
1	whiteboard	■		48” x 96”
	tack strips	■		
	tack boards	■		
1	lab bench with pull-out writing surface, lockable drawers, and kneeholes, to accommodate microscopes, centrifuges, and a water bath	■		
movable furnishings				
	waste cans	■		
4	student work tables	■		
equipment				
16-18	student laptops		■	
1	clock linked to campus master	■		
	microscopes	■		
	stacked CO2 incubators	■		48” x 48”

space notes

Space should include adequate space for storage and circulation.

Students will require after-hours access.



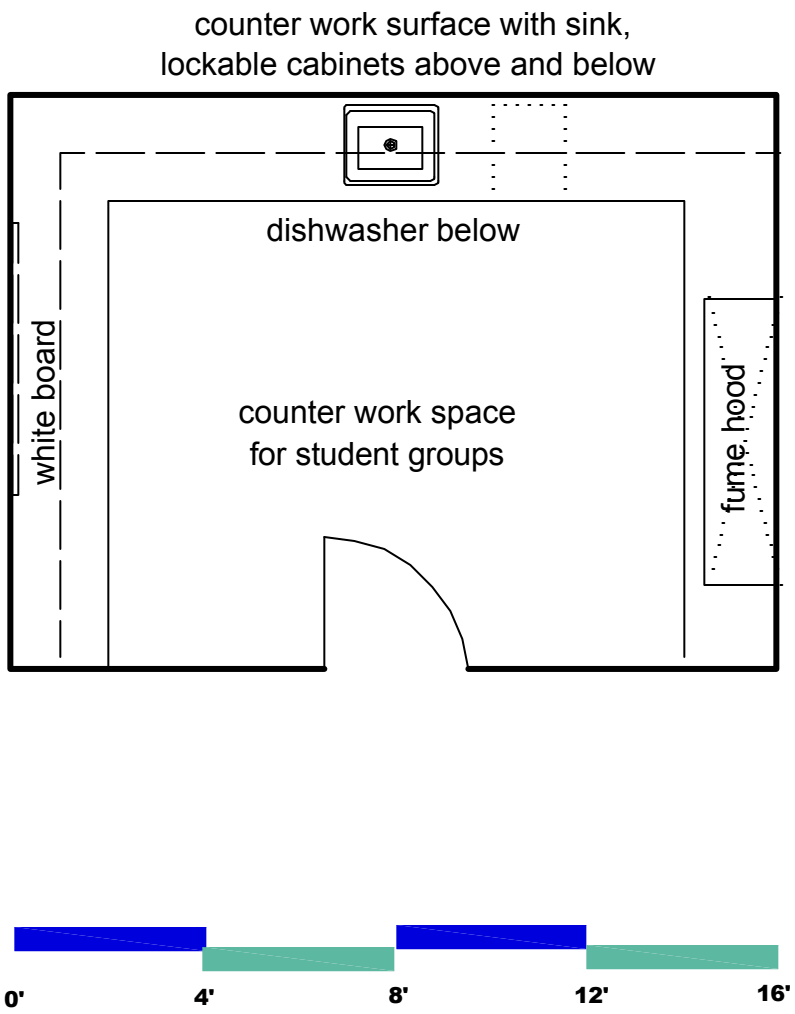
prep room

Salt Lake Community College

summary	
space type	laboratory prep room
net sf each space	200
total of this type	2 for each class laboratory
assigned users	0
visitors	up to 10 students and 1 instructor
functions	prepare materials for lab instruction and demonstration
location and relationships	
location	upper level
proximity	biotechnology lab
access	Jordan Education Center
security	department control of equipment and experiments in process
finish see Jordan Campus Design Guidelines	
materials & finish	chemidal-resistant surfaces linoleum flooring acceptable
electrical plus power for listed equipment	
power	multiple 220 outlets for large equipment; minimum on e double duplex every 12'
backup power	for incubators
phone	not required
data	not required
video/tv	not required
lighting	
natural light	not required
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 with electronic ballast
task lights	not required
controls	automatic sensor
sound control	
stc	40-45
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	yes
med gases	
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	hot and cold water, gooseneck faucet distilled water floor drain chemical resistant drain
hazardous materials	
	OSHA approved storage for flammables, with capacity fir 20 gallon drums of chemicals

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	horsheshoe counter with base cabinets			20 linear feet minimum student work area, plus equipment
1	fume hood			6’
1	sink w/ gooseneck faucet			
1	upper cabinets			
movable furnishings				
equipment				
1	residential-type dishwasher			
space notes				

Dishwasher in one prep room, distilled water in the other. Counter space should accommodate 10 students at a time. Department needs access to large industrial type dishwasher (listed in program in the Sterile Prep area).

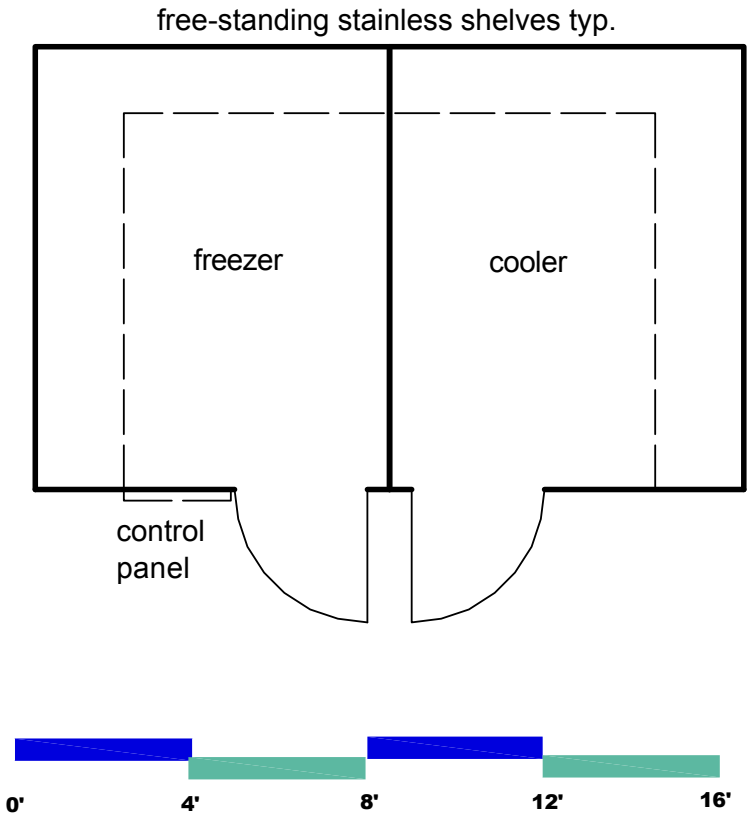


walk-in freezer

Salt Lake Community College

summary	
space type	walk-in freezer
net sf each space	80
total of this type	1
assigned users	0
visitors	students and instructors
functions	hold
location and relationships	
location	upper level
proximity	biotechnology lab and prep areas
access	Jordan Education Center
security	department control of equipment and experiments in process
finish see Jordan Campus Design Guidelines	
materials & finish	premanufactured unit
electrical	
power	hookups
back-up power	required for freezer-cooler; may have process unit or be linked to life-safety back-up generator
phone	not required
data	not required
video/tv	not required
lighting	
natural light	not required
foot candles	30 general
fixture types	
task lights	not required
controls	automatic
sound control	
stc	40-45
full sound walls	not required
mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	
fume hoods	no
med gases	
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	unit hook-ups floor drain
hazardous materials	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	adjustable shelf units			
movable furnishings				
equipment				
space notes				

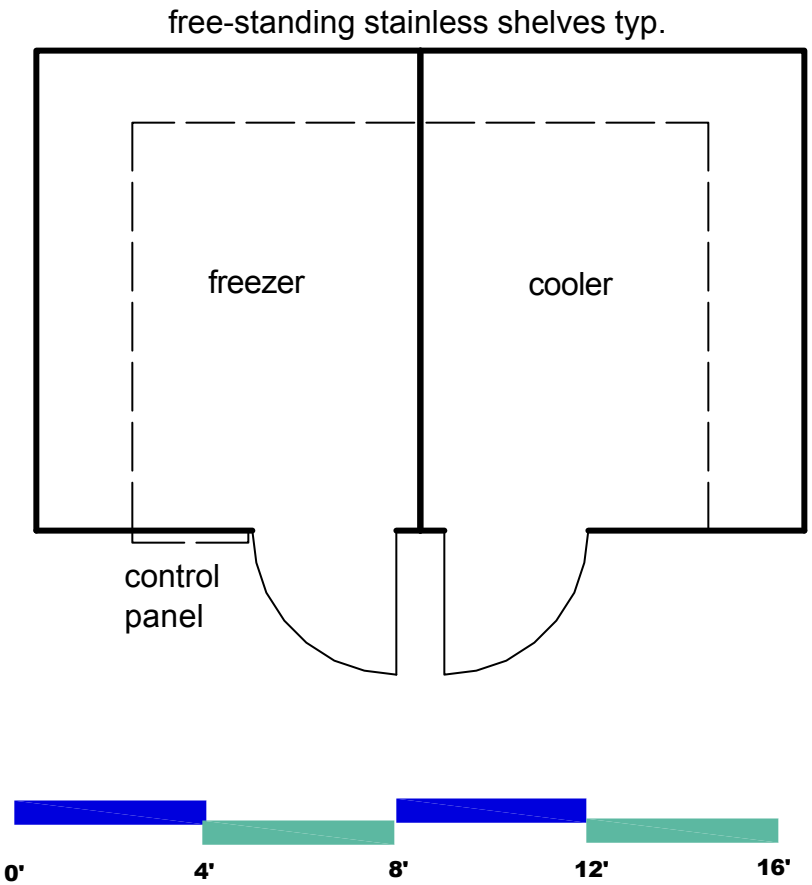


walk-in cooler

Salt Lake Community College

summary	
space type	walk-in cooler
net sf each space	80
total of this type	1
assigned users	0
visitors	students and instructors
functions	hold
location and relationships	
location	upper level
proximity	biotechnology lab and prep areas
access	Jordan Education Center
security	department control of equipment and experiments in process
finish	**see Jordan Campus Design Guidelines**
materials & finish	premanufactured unit
electrical	
power	per manufacturer
backup power	requred for freezer and cooler
phone	not required
data	not required
video/tv	not required
lighting	
natural light	not required
foot candles	30 general
fixture types	
task lights	not required
controls	automatic
sound control	
stc	40-45
full sound walls	not required
mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	
fume hoods	no
med gases	
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	unit hook-ups floor drain
hazardous materials	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	adjustable shelf units			
movable furnishings				
equipment				
space notes				



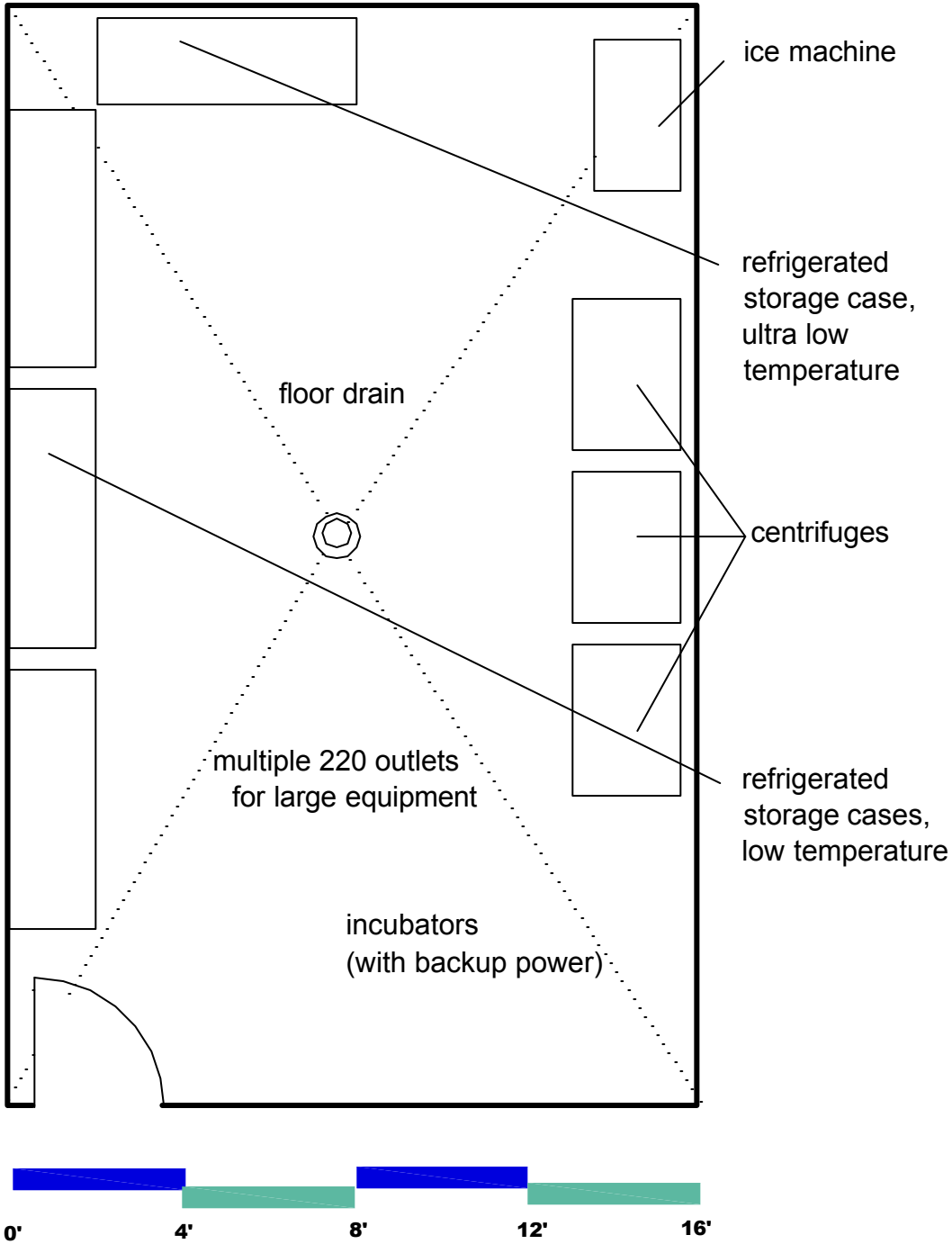
Salt Lake Community College

summary	
space type	large equipment storage
net sf each space	400
total of this type	1
assigned users	0
visitors	students, faculty
functions	house bulky, noisy equipment used for lab and instruction
location and relationships	
location	upper level
proximity	biotechnology lab and prep ares
access	Jordan Education Center
security	department control of equipment and experiments in process
finish seeJordan Campus Design Guidelines	
materials & finish	chemial-resistant surfaces linoleum flooring acceptable
electrical plus power for equipment listed	
power	multiple 220 outlets
backup generator	for incubators
phone	not required
data	not required
video/tv	not required
lighting	
natural light	not required
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 with electronic ballast
task lights	not required
controls	automatic
sound control	
stc	45-50
full sound walls	yes
mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	in adjacent prep rooms
med gases	none
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	hot and cold water ice machine floor drain
hazardous materials	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
equipment				
2	incubators			
3	centrifuge			
1	ice machine			
2-3	refrigerated cases for low temp storage (-20)			sim. to commercial cold-drink cases
1	refrigerated case for ultra-low temp storage			

space notes

Provide washer/dryer if not available elsewhere in building (Program identifies one in PTA pool area). Provide space for multiple refrigerators if walk-in freezer/cooler not available. Current space has 6-7 full-size residential type refrigerators. Refrigerated case units may not be shared with any other groups; large walk-in freezer/cooler areas may be shared.



faculty office

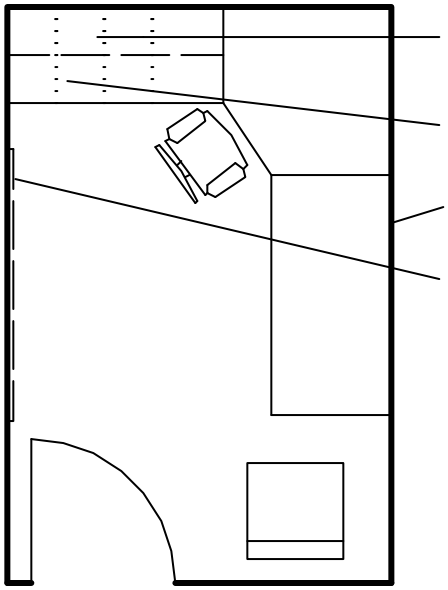
Salt Lake Community College

summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	2
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space
location and relationships	
location	upper level; 3rd of 4 levels
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
backup power	no
phone	Internet access
data	computer work area
video/tv	none
lighting	
natural light	desirable with light control
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface, angled corner			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
1	side chair, armless, upholstered			20” x 20” approx.
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.

adjunct work area

Salt Lake Community College

summary

space type	enclosed shared work area
net sf each space	200 sf
total of this type	1
assigned users	2-3 adjunct faculty at a time
visitors	1-2 students
functions	professional work space for adjunct faculty who do not have assigned individual offices

location and relationships

location	upper level
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students faculty access to labs and classrooms

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board

electrical

plus capacity for equipment listed below

power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
backup power	no
phone	capacity for one at each work station
data	capacity for one computer and printer at each work station
video/tv	none

lighting

natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor

sound control

stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

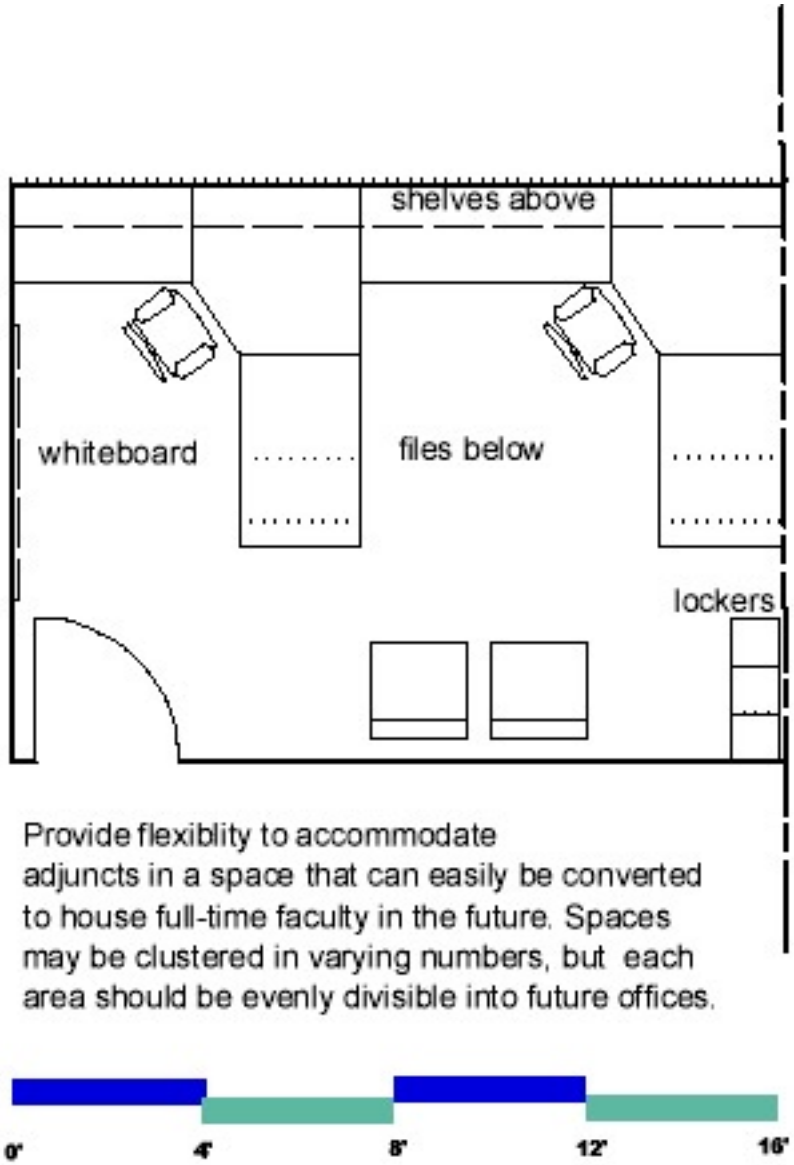
plumbing

none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
	half-height lockers			12” x 12” x 36”
movable furnishings				
3	waste can			
3	work surface			30’ x 54”
3	letter size file pedestals			15” x 29”
3	work surface			30” x 30”
3	work surface, angled corner			
3	shelf unit, 4 shelves			12” x 60”
3	work station coat hook, tack surface, keyboard drawer			
3	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
2	side chair, armless, upholstered			20” x 20” approx.
equipment				
3	desltop or laptop computer			
1	computer printer			
	capacity for users’ personal electronic items			

space notes

Adjunct spaces may be combined to create larger work-rooms shared by adjuncts from more than one department. Lockers for all adjunct areas on a floor may be clustered in or adjacent to work and break areas.



Provide flexiblity to accommodate adjuncts in a space that can easily be converted to house full-time faculty in the future. Spaces may be clustered in varying numbers, but each area should be evenly divisible into future offices.

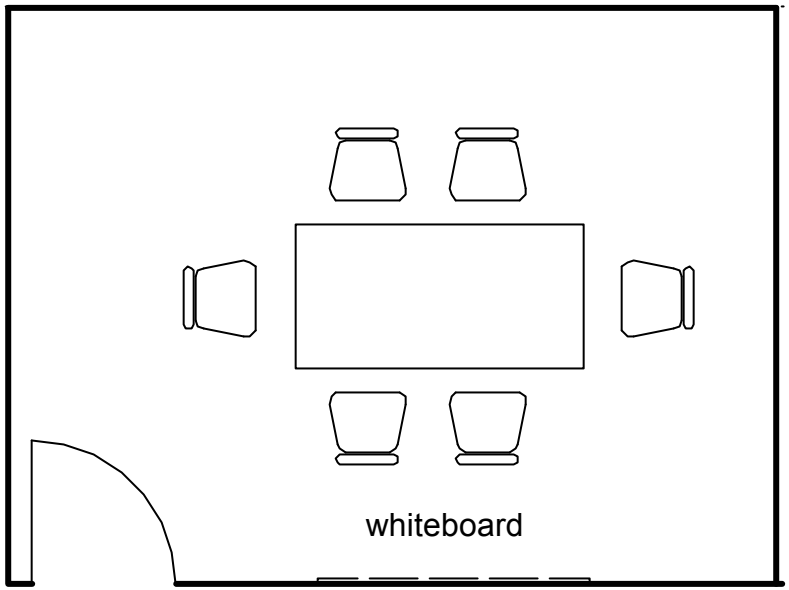
Salt Lake Community College

summary	
space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	6-8
functions	small conference area that can be converted for future faculty or adjunct work space
location and relationships	
location	upper level
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students and faculty
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each potential future work station area
data	capacity for one computer and printer at each future work station
video/tv	none
lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	capacity for future office use
controls	auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
movable furnishings				
1	waste can			
1	library reading table			36” x 72”
6	side chair, armless, upholstered			20” x 20” approx.
equipment				
	capacity for 8 laptops and for desktops at future office work stations			
	capacity for printer to serve future office uses			
	capacity for users’ personal electronic items			

space notes

Spaces may be combined with those from other departments to create larger conference/work areas, provided that the configuration will support future conversion to faculty office or adjunct space as programs grow. This capacity will be critical to allow the building to remain functional in the future; lack of faculty space is the major spatial obstacle to program expansion.



Provide a space that can easily be converted to 2 faculty offices in the future.

Can be combined with other similar areas to create a single larger space

Salt Lake Community College

summary	
space type	department storage
net sf each space	200
total of this type	1
assigned users	0
visitors	students and instructors
functions	store program suppplies and small equipment

location and relationships	
location	upper level
proximity	biotechnology lab and prep areas, large equipment storage
access	Jordan Education Center
security	department control of equipment and experiments in process

finish	
materials & finish	painted gypsum board static-free carpet or hard-surface flooring

See Jordan Campus Design Guidelines.

electrical	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	not required
data	not required
video/tv	not required

lighting	
natural light	not required
foot candles	30 general
fixture types	
task lights	not required
controls	automatic

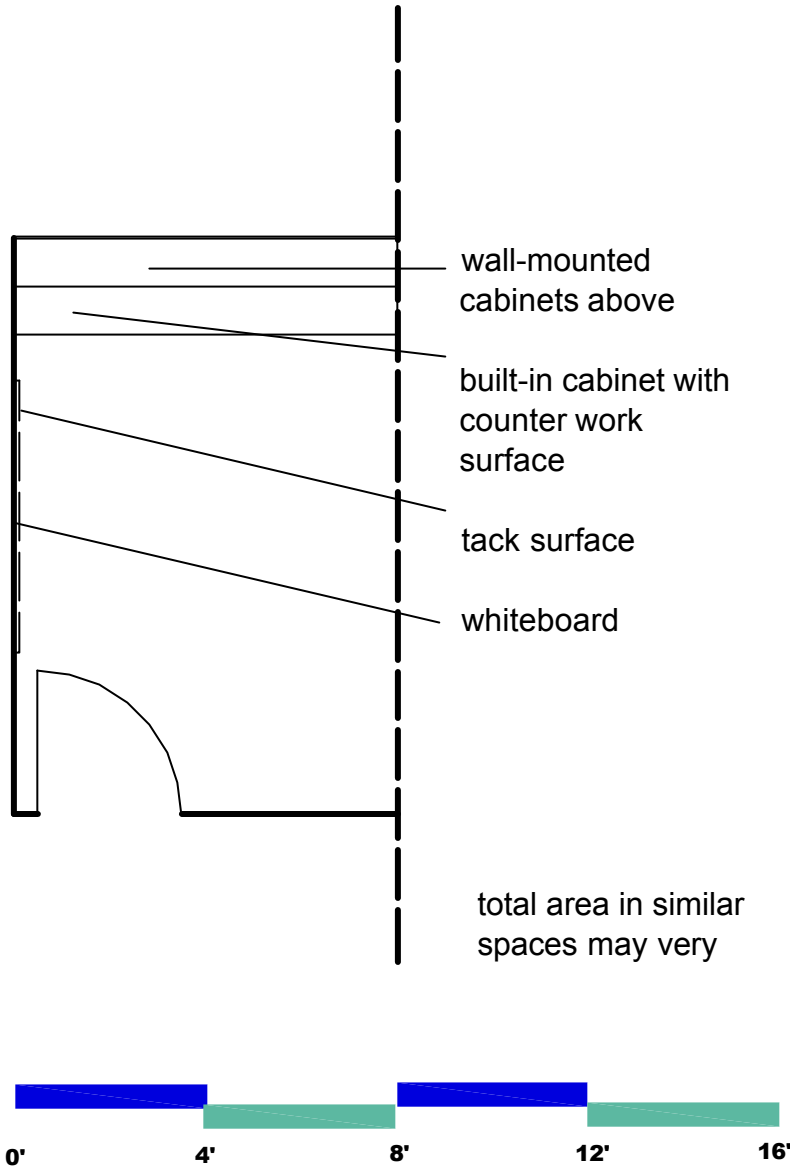
sound control	
stc	30
full sound walls	not required

mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	
fume hoods	no
med gases	
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

hazardous materials	

qty per room	item	in contract y	in contract n	dimensions
built-in fixtures				
8 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 8’
8’ lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 8’
1	tack board / tack surface			
8 lf	open adjustable shelving			12” x 10’
movable furnishings				
1	waste receptacle, large			
equipment				
space notes				



Salt Lake Community College

summary

space type	growth space for future wet laboratory and prep area
net sf each space	1,600
total of this type	1
assigned users	20-24
visitors	visiting professionals
functions	expedite future development of an additional lab/prep complex to support anticipated growth. Permit interim use for general classroom or instructional computer lab

location and relationships

location	upper level
proximity	biotechnology classroom instructional computer lab prep room, large equipment room walk-in freezer and cooler
access	Jordan Education Center convenient access to restrooms
security	department control of equipment and experiments in process

finish

materials & finish	eventual configuration similar to biotechnology class lab (space #02) and prep areas (space # 04)

See Jordan Campus Design Guidelines.

electrical

power	220 for large equipment power strips at perimeter
phone	Internet access
data	hook-ups for student laptops; instructor demo area
video/tv	projection not necessary for biotechnology program if available in dedicated classroom accessible to the program during lab sessions; may be desirable to provide for interim general intructional use of this space.

lighting

natural light	desirable; students spend 3-4 hours at a time in the lab
foot candles	10-15 at board surface 30 general; 75 for reading tasks; 100-150 for lab tasks
fixture types	direct/indirect
task lights	at instructor console
controls	at instructor console

sound control

stc	40-45
full sound walls	no

mechanical

outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
fume hoods	capacity for hoods in future prep rooms
med gases	none
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

capacity for water at future lab bench areas and prep rooms

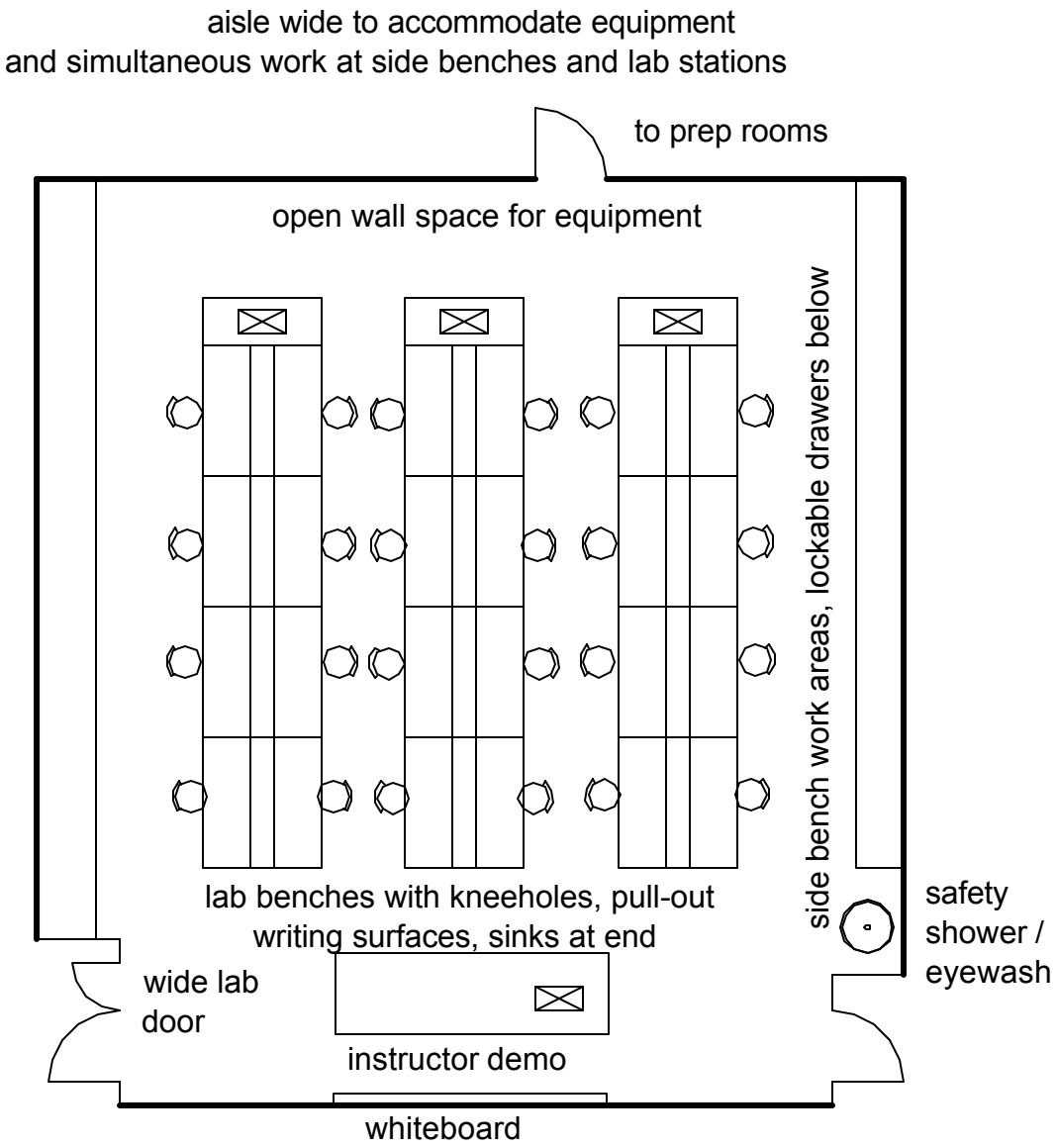
hazardous materials

may be present in demonstrations

furnishings, fixtures, and equipment

Equip initially for classroomuse similar to space #01 or for instructional computer lab use. Space should be desiged to accommodate future wet lab fixtures similar to the biotechnology class lab (space #02)

space notes



pre-biotechnology growth area

12 biotechnology technican

slcc jordan campus health sciences center

Salt Lake Community College

medical assistants
slcc jordan campus health sciences center

Salt Lake Community College

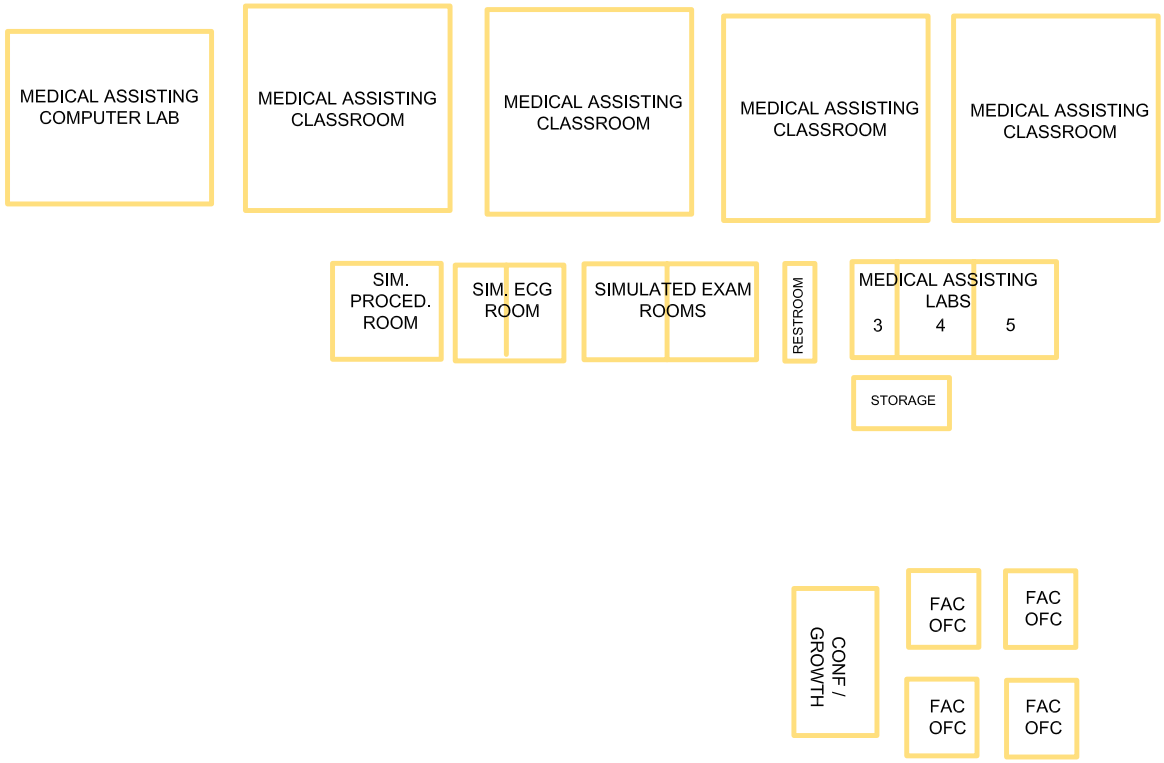
medical assistants

slcc jordan campus health sciences center

#	space	user capacity	quantity	nsf each	total nsf	total unassign-able sf	total gsf
01	Classroom	24-36	4	1,080	4,320		4,320
02	Computer Lab	24	1	840	840		840
03	Phlebotomy Lab	2	1	100	100		100
04	Microscope Lab	6	1	180	180		180
05	Central Processing Lab		1	200	200		200
06	Restroom - Specimens	1	1	65	65		65
07	Simulated Exam Room	10	2	200	400		400
08	Simulated ECG Room	10	1	150	150		150
09	Simulated Procedure Room	10	1	300	300		300
10	Faculty Office	1	4	100	400		400
11	Small Conference / Faculty Growth	2	1	200	200		200
12	Work/Copy/Storage		1	100	100		100
TOTALS					7,255		7,255

Salt Lake Community College

medical assisting program



large classroom

Salt Lake Community College

summary

space type	classroom
net sf each space	1,080
total of this type	4
assigned users	24-36
visitors	visiting professionals
functions	classroom instruction

location and relationships

see drawing, page

location	3rd level
proximity	medical assisting labs scrub and sterile prep areas surgical technology
access	x-ray and darkroom areas shared with Radiologic Technology
security	department control of equipment and models

finish

see also Design Guidelines

materials & finish	gypsum board, vinyl tile

electrical

plus capacity for equipment listed below

power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling projector mount; back wall for plasma screen
phone	Internet access
data	hook-ups for student laptops; instructor console
video/tv	ceiling mounted projection EDNET send and receive capacity

lighting

natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect
task lights	at instructor console
controls	at instructor console

sound control

stc	45-50
full sound walls	not required

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	none
med gases	none
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

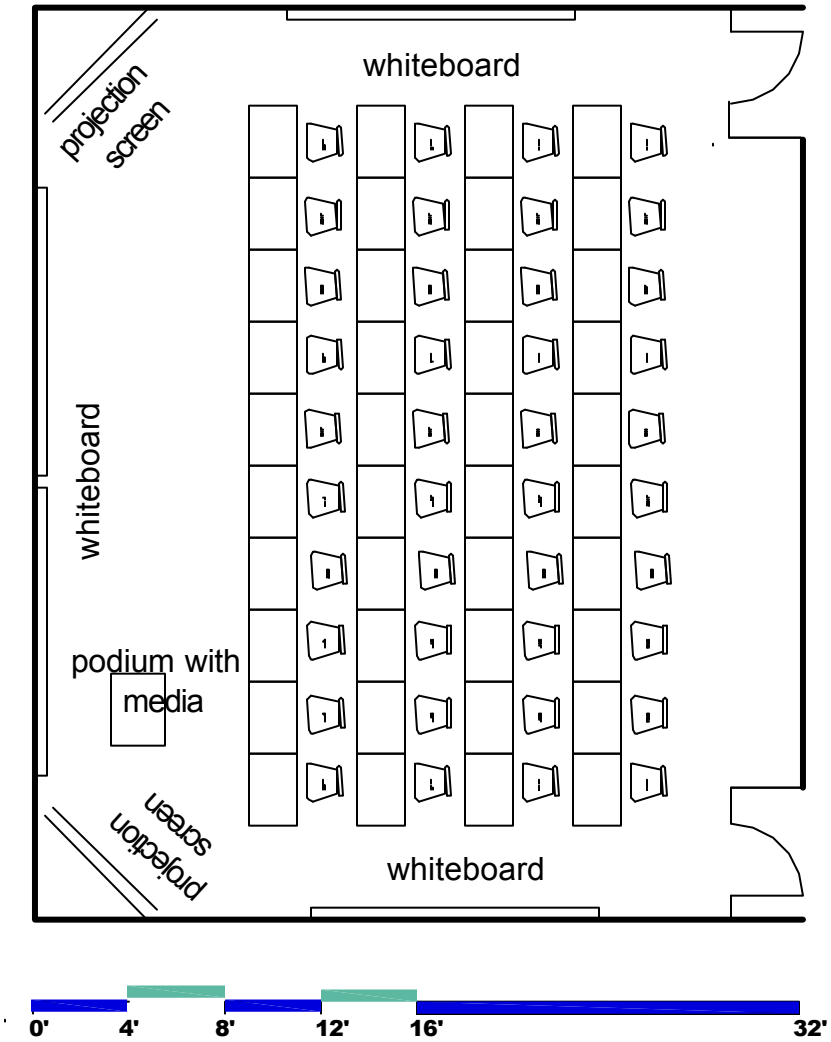
plumbing

none

hazardous materials

may be present in demonstrations

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor console			
4	whiteboards			48” x 144”
1	projection screen			48” x 60”
	ceiling projection mounts			
	tack strips			
	tack boards			
movable furnishings				
40	student tables			20” x 36”
40	student chairs, armless, on casters			
2	waste cans			14”
1	exam table			for demonstration
1	rolling or pivoting			
1 each in one class-room only	6-bank x-ray view box			
	x-ray phantom			
	x-ray film storage cabinet			
equipment				
40	student laptops			
1	clock linked to campus master			
1 ea	data, tv, and video projectors			
	capacity for wireless microphones, a/v equipment, pencil sharpener			
	demonstration items incl. mannikins, skeleton, and anatomical charts			
space notes				



instructional computer lab

Salt Lake Community College

summary	
space type	instructional computer lab
net sf each space	840 sf
total of this type	1
assigned users	24 students
visitors	visiting professionals
functions	computer instruction student lab when class not in session

location and relationships	
location	level 3
proximity	medical assistants classrooms and labs
access	may be shared when not in use for classes
security	department control of equipment and software

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet or vinyl tile painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	2 lines
data	at each student station and lab instructor area
video/tv	capacity for EDNET send and receive

lighting	
natural light	no
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect; wash at boards
task lights	no
controls	automatic sensor

sound control	
nc/rc	50
full sound walls	no

mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

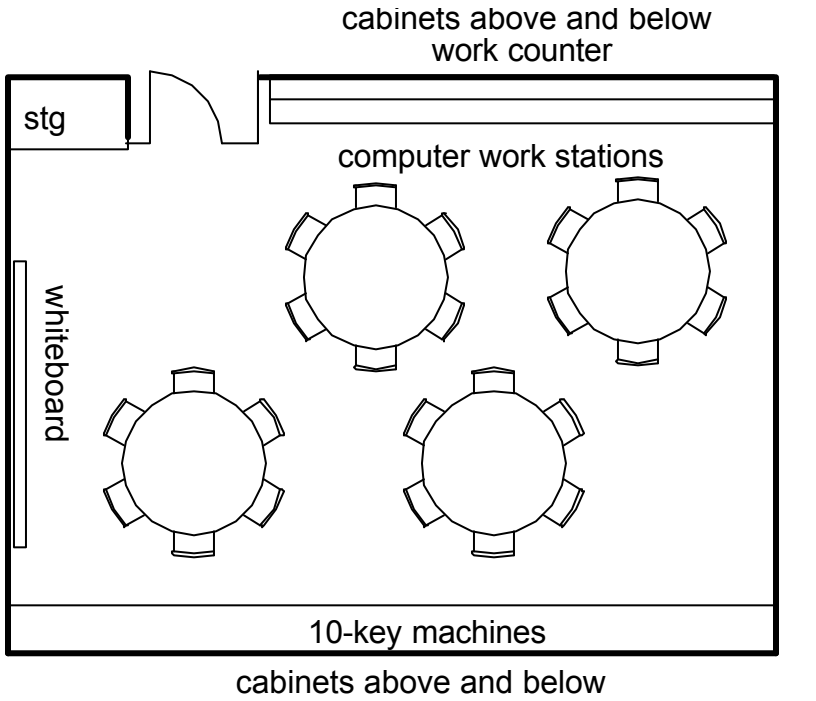
plumbing	
	none

hazardous materials	
	none

qty per room	item	in contract y	in contract n	dimensions
built-in fixtures				
1	whiteboard			48” x 144”
	tack strips			
	tack boards			
	wall-mounted side counters, open below			24” x 32’
movable furnishings				
2	waste cans			
4-6	hexagonal computer work tables			
24-36	work chairs, on casters, armless			
equipment				
36	desltop computers			
36	computer printers			
1	photocopier			
1	clock linked to campus master			
15	foot pads			
15	headphones			
1	DVI system			
15	10-key machines			
24	dictaphones			

space notes

The computer lab must be available to students during scheduled class times for instruction and practice. 10-key machines should have permanent locations on side counters to reduce damage that occurs from moving them frequently. Computer work stations should be designed so that students cannot view adjacent monitors. Space needs to be quiet to permit students to practice transcription



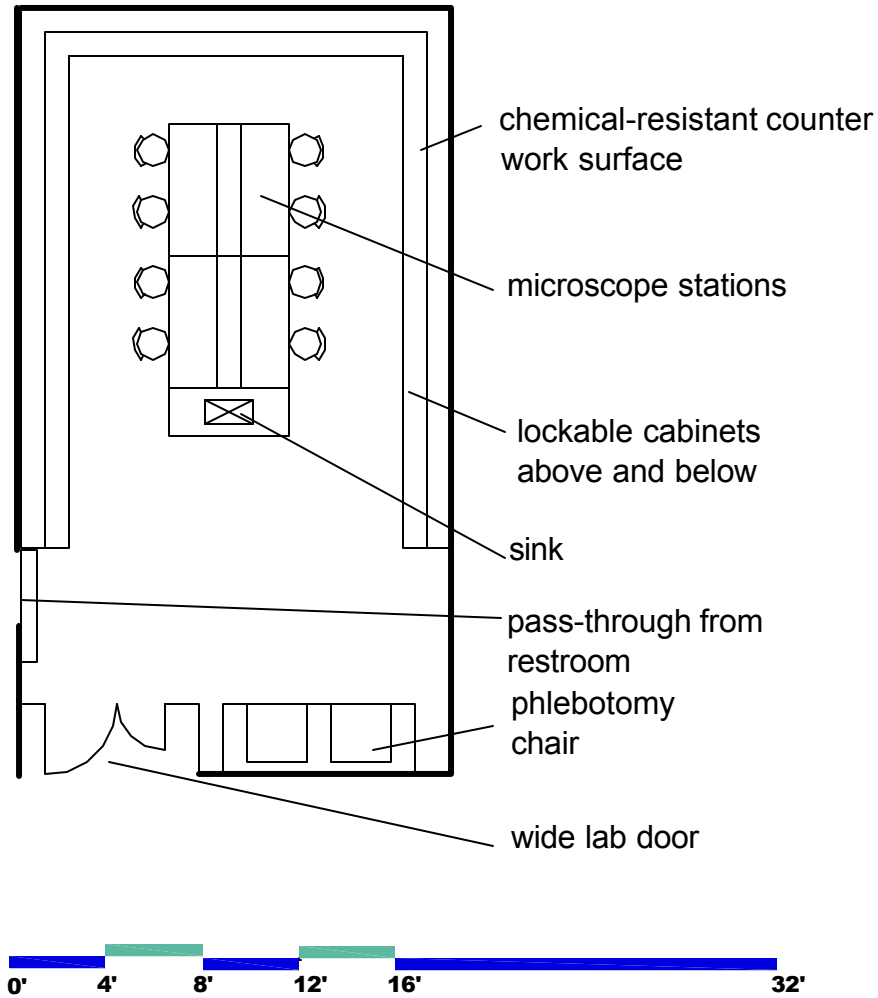
lab - phlebotomy

Salt Lake Community College

summary	
space type	wet lab area
net sf each space	100 sf
total of this type	1
assigned users	small student groups
visitors	visiting professionals
functions	allow students to practice blood-drawing
location and relationships	
location	level 3
proximity	part of open simulated lab area
access	medical assistants classroom and computer lab areas; locker/ shower/ change areas
security	department control of equipment and software
finish	see Jordan Campus Design Guidelines
materials & finish	hard-surface stain-resistant floor painted gypsum board paint color selected to allow accurate color perception
electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	at each student station and lab instructor area
video/tv	capacity for EDNET send and receive
lighting	
natural light	not required
foot candles	30 general; 100-150 for blood-drawing tasks
fixture types	direct/indirect accurate color rendition for blood drawing
task lights	no
controls	automatic sensor
sound control	
nc/rc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	sink with hot and cold water
hazardous materials	
	biohazard and sharps disposal

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	2-seat blood-drawing table with drawers			
6 lf	base cabinet with work counter and sink, drawers below			24” x 72”
6 lf	wall-mounted cabinet with adj. shelving			12” x 72”
	wall-mounted sharps container			
movable furnishings				
1	waste cans			
1	biohazard disposal			
1	pneumatic stool			
equipment				
	wire test tube racks			
	eye irrigation station			
	eye/face wash			
	Adams nutator mixer			
space notes				

note: drawing shows combined space for phlebotomy lab, microscopes, and processing area



lab - microscope stations

Salt Lake Community College

summary	
space type	wet lab area
net sf each space	180 sf
total of this type	1
assigned users	6 - 10 students at a time
visitors	visiting professionals
functions	allow students to work with microscopes

location and relationships	
location	level 3
proximity	part of open simulated lab area
access	medical assistants classroom and computer lab areas; locker/ shower/ change areas
security	department control of equipment and software

finish	see Jordan Campus Design Guidelines
materials & finish	hard-surface stain-resistant floor painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	one computer work station
video/tv	capacity for EDNET send and receive

lighting	
natural light	not required
foot candles	30 general; 100-150 for laboratory analysis
fixture types	
task lights	no
controls	automatic sensor

sound control	
stc	50
full sound walls	no

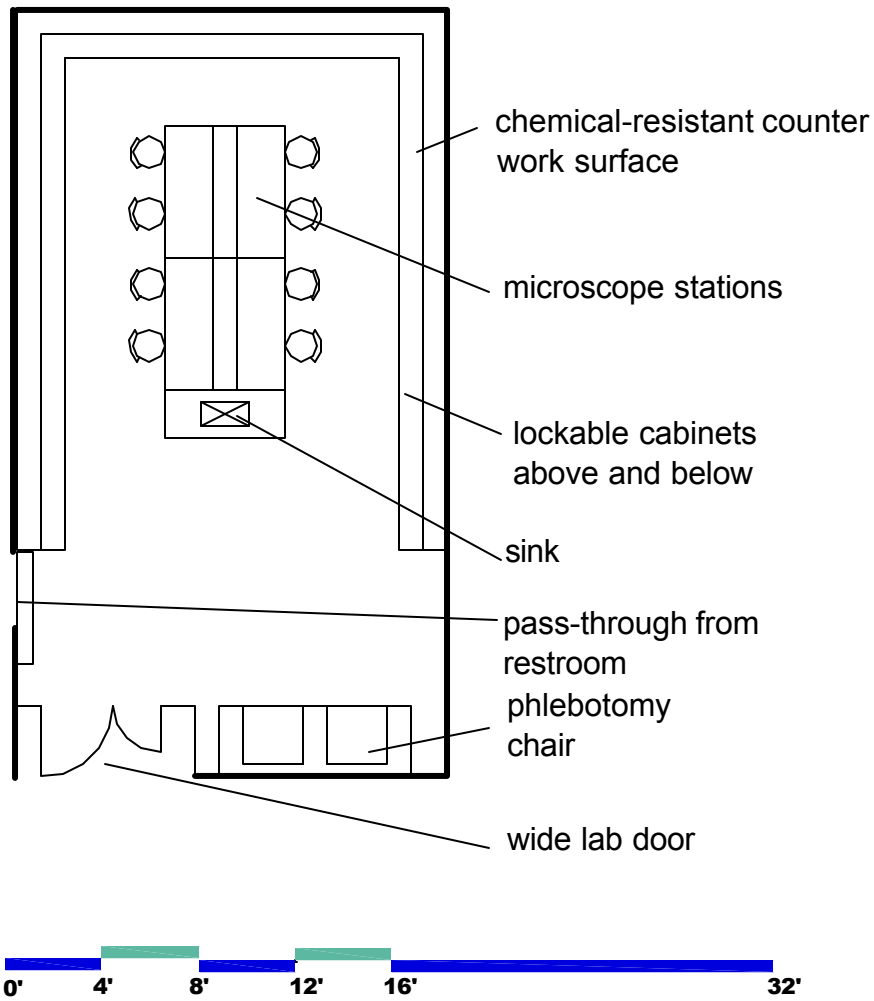
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	sink with hot and cold water

hazardous materials	
	biohazard and sharps disposal

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
6 lf	base cabinet with work counter and sink, drawers below			24” x 72”
6 lf	wall-mounted cabinet with adj. shelving			12” x 72”
	wall-mounted sharps container			
movable furnishings				
2	waste can			
1	biohazard disposal			
8 -12	microscope tables			
8- 12	lab stools			
equipment				
1	desktop computer			
8 - 12	microscopes			
space notes				

note: drawing shows combined space for phlebotomy lab, microscopes, and processing area



Salt Lake Community College

summary

space type	wet lab area
net sf each space	200 sf
total of this type	1
assigned users	6 - 10 students at a time
visitors	visiting professionals
functions	allow students to complete a variety of laboratory analyses

location and relationships

location	level 3
proximity	part of open simulated lab area
access	medical assistants classroom and computer lab areas; locker/ shower/ change areas
security	department control of equipment and software

finish

see Jordan Campus Design Guidelines

materials & finish	hard-surface stain-resistant floor painted gypsum board

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	one computer work station
video/tv	none

lighting

natural light	not required
foot candles	30 general; 100-150 for laboratory analysis
fixture types	
task lights	no
controls	automatic sensor

sound control

stc	45-50
full sound walls	no

mechanical

outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

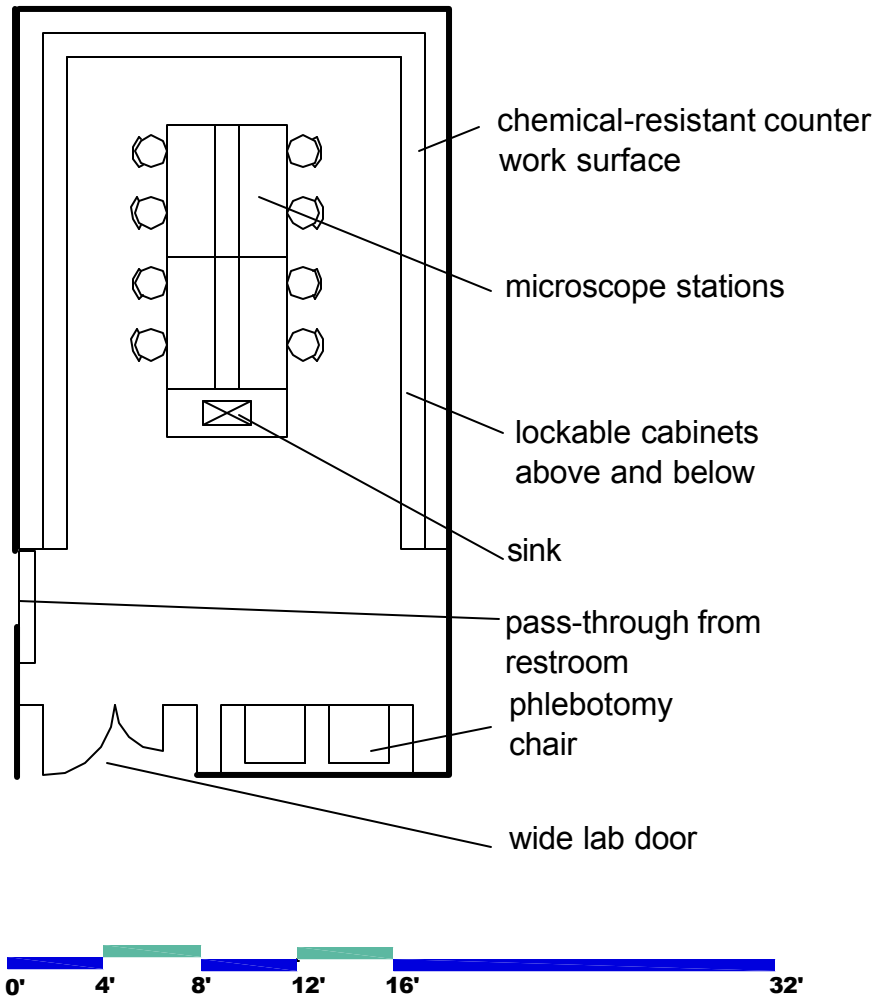
sink with hot and cold water

hazardous materials

biohazard and sharps disposal

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
2	base cabinet with work counter and doublesink, drawers below			24” x 72”
2	wall-mounted cabinet with adj. shelving			12” x 72”
1	wall-mounted sharps container			
movable furnishings				
2	waste can			
1	biohazard disposal			
equipment				
1	desktop computer			
1	automated cell counter			
1	chem seralyser with printer			
1	full-size residential type refrigerator			
1	hemoglobinometer			
1	bacticinerator			
1	nutater mixer			
5	hct centrifuges			
1	incubator			
5	urine centrifuges			
space notes				

note: drawing shows combined space for phlebotomy lab, microscopes, and processing area



06 medical administrative assistants
medical assistants
slcc jordan campus health sciences center

restroom - specimen gathering

Salt Lake Community College

summary	
space type	unisex restroom
net sf each space	65 sf
total of this type	1
assigned users	0
visitors	1
functions	permit specimen gathering

location and relationships	
location	level 3
proximity	adjacent to lab area
access	medical assistants classroom and computer lab areas; locker/ shower/ change areas
security	controlled specimen gathering

finish	see Jordan Campus Design Guidelines
materials & finish	hard-surface stain-resistant floor painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Inone
data	none
video/tv	none

lighting	
natural light	not required
foot candles	30 general
fixture types	
task lights	no
controls	automatic sensor

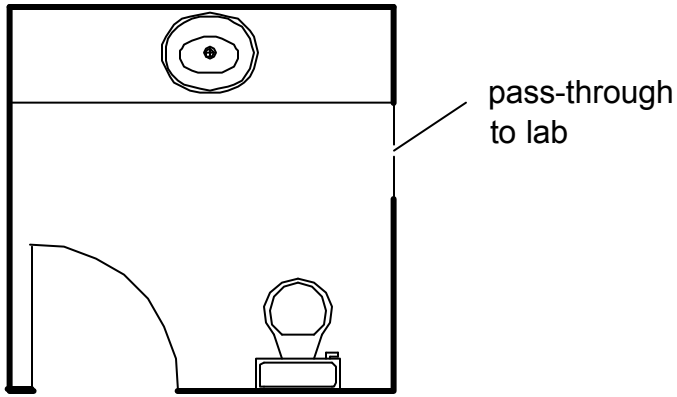
sound control	
nc/rc	30
full sound walls	no

mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	yes
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	sink with hot and cold water; water closet

hazardous materials	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	lavatory with base cabinet			24” x 36”
1	wall-mounted mirror			
movable furnishings				
1	waste can			
equipment				
space notes				



simulated exam room

07 medical assistants
slcc jordan campus health sciences center

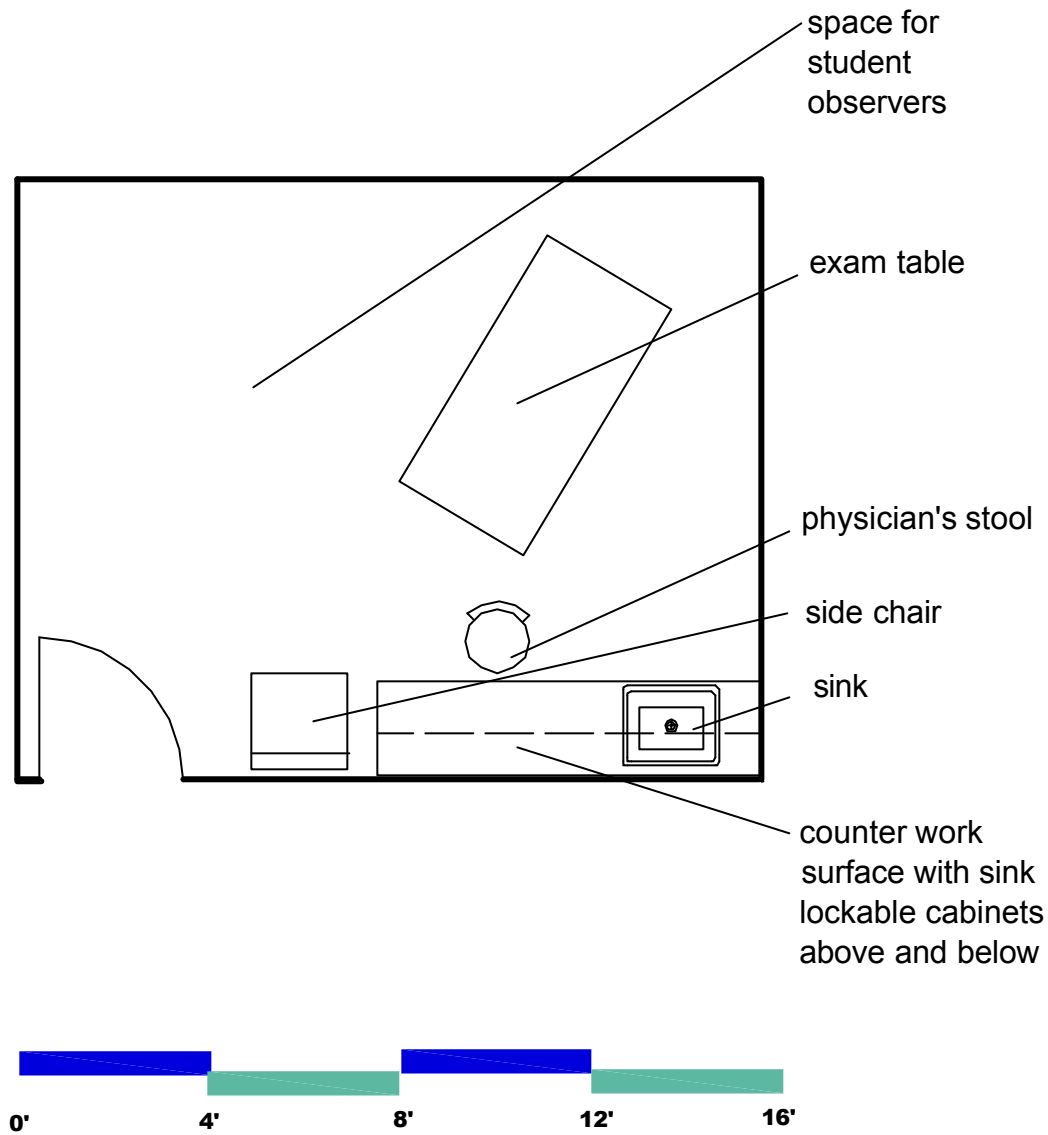
Salt Lake Community College

summary	
space type	simulated exam room
net sf each space	400 sf
total of this type	2
assigned users	groups of 10 students plus instructor
visitors	visiting professionals
functions	allow students to practice assisting in a physical exam
location and relationships	
location	level 3
proximity	adjacent to lab area
access	medical assistants classroom and computer lab areas; locker/ shower/ change areas
security	department control of equipment
finish see Jordan Campus Design Guidelines	
materials & finish	hard-surface stain-resistant floor painted gypsum board
electrical plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	one line
data	internet access
video/tv	none

lighting	
natural light	not required
foot candles	30 general
fixture types	
task lights	portable exam light
controls	automatic sensor
sound control	
stc	30
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no
plumbing	
	handwashing sink
hazardous materials	
	biohazard and sharps disposal

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	hand-washing sinnk with base cabinet and counter writing surface with knee hole			24” x 60”
1	wall-mounted cabinet with adj. shelving			12” x 60”
1	wall-mounted sharps container			
movable furnishings				
1	waste can			
1	biohazard disposal			
1	pneumatic doctor’s stool			
1	patient exam table			
1	medical office step stool			
equipment				
1	wall-mounted otoscope			
1	gooseneck lamp			
1	desktop computer			
1	mayo stand			
10	blood-pressure cuffs			
1	nebulizer			
1	microscope			
1	electric adult scale			
1	small autoclave			
1	audiometer with printer			
space notes				

Provide standard adult gynecological exam table in one room, pediatric exam table in the other. Cabinets should provide storage for patient drapes, electrodes, exam instruments, alcohol preps, tape, bandaging, and miscellaneous supplies.



simulated critical care lab

Salt Lake Community College

summary	
space type	simulated ECG room
net sf each space	150 sf
total of this type	1
assigned users	groups of 5 students plus instructor
visitors	visiting professionals
functions	allow students to practice ECG screening

location and relationships	
location	level 3
proximity	simulated exam rooms
access	medical assistants classroom and computer lab areas; locker/ shower/ change areas
security	department control of equipment

finish	see Jordan Campus Design Guidelines
materials & finish	hard-surface stain-resistant floor painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	one line
data	internet access
video/tv	none

lighting	
natural light	not required
foot candles	30 general
fixture types	
task lights	portable exam light
controls	automatic sensor

sound control	
stc	30
full sound walls	no

mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

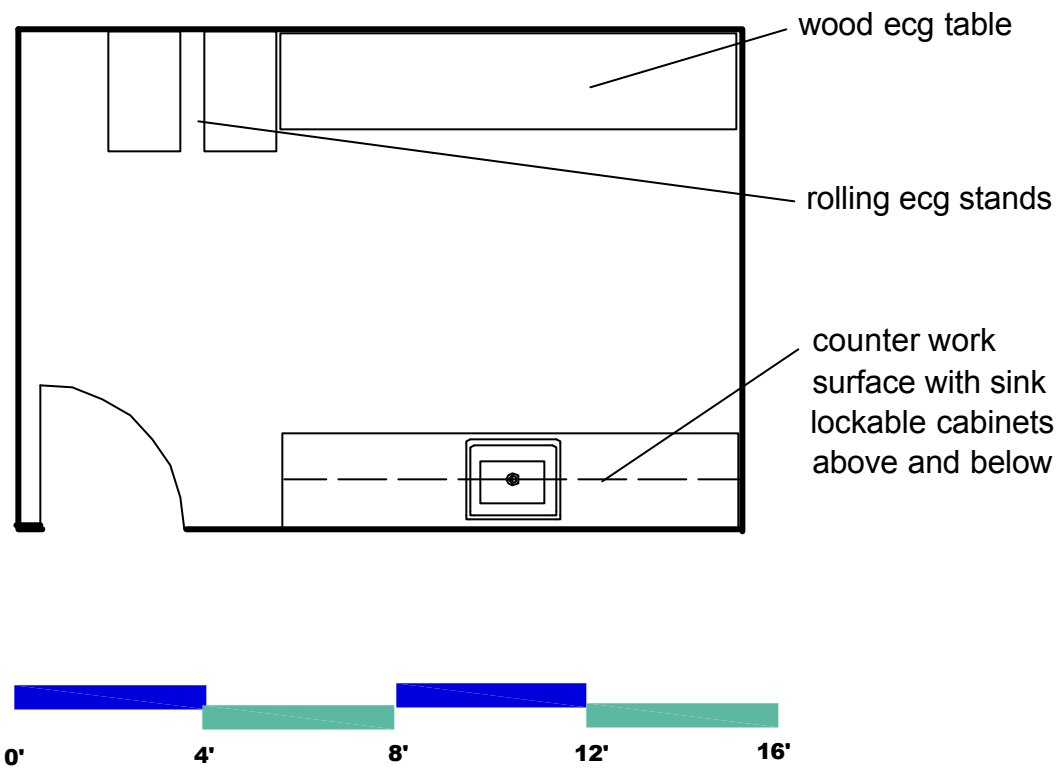
plumbing	
	handwashing sink

hazardous materials	
	biohazard and sharps disposal

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	hand-washing sinnk with base cabinet			24” x 60”
1	wall-mounted cabinet with adj. shelving			12” x 60”
1	wall-mounted sharps container			
	privacy drapes			
movable furnishings				
1	waste can			
1	biohazard disposal			
1	wood ECG table			
2	rolling ECG stand			
equipment				
1	desktop computer			
1	multichannel ECG			
1	Holter monitor			

space notes

Cabinets should provide storage for patient drapes, electrodes, and miscellaneous supplies.



simulated procedure room

09 medical assistants
slcc jordan campus health sciences center

Salt Lake Community College

summary	
space type	simulated procedure room
net sf each space	300 sf
total of this type	1
assigned users	groups of 10 students plus instructor
visitors	visiting professionals
functions	allow students to practice assisting at various medical procedures

location and relationships	
location	level 3
proximity	adjacent to lab and simulated exam areas
access	medical assistants classroom and computer lab areas; locker/ shower/ change areas
security	department control of equipment

finish	see Jordan Campus Design Guidelines
materials & finish	hard-surface stain-resistant floor painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	one line
data	internet access
video/tv	none

lighting	
natural light	not required
foot candles	30 general
fixture types	
task lights	portable exam light
controls	automatic sensor

sound control	
stc	30
full sound walls	no

mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

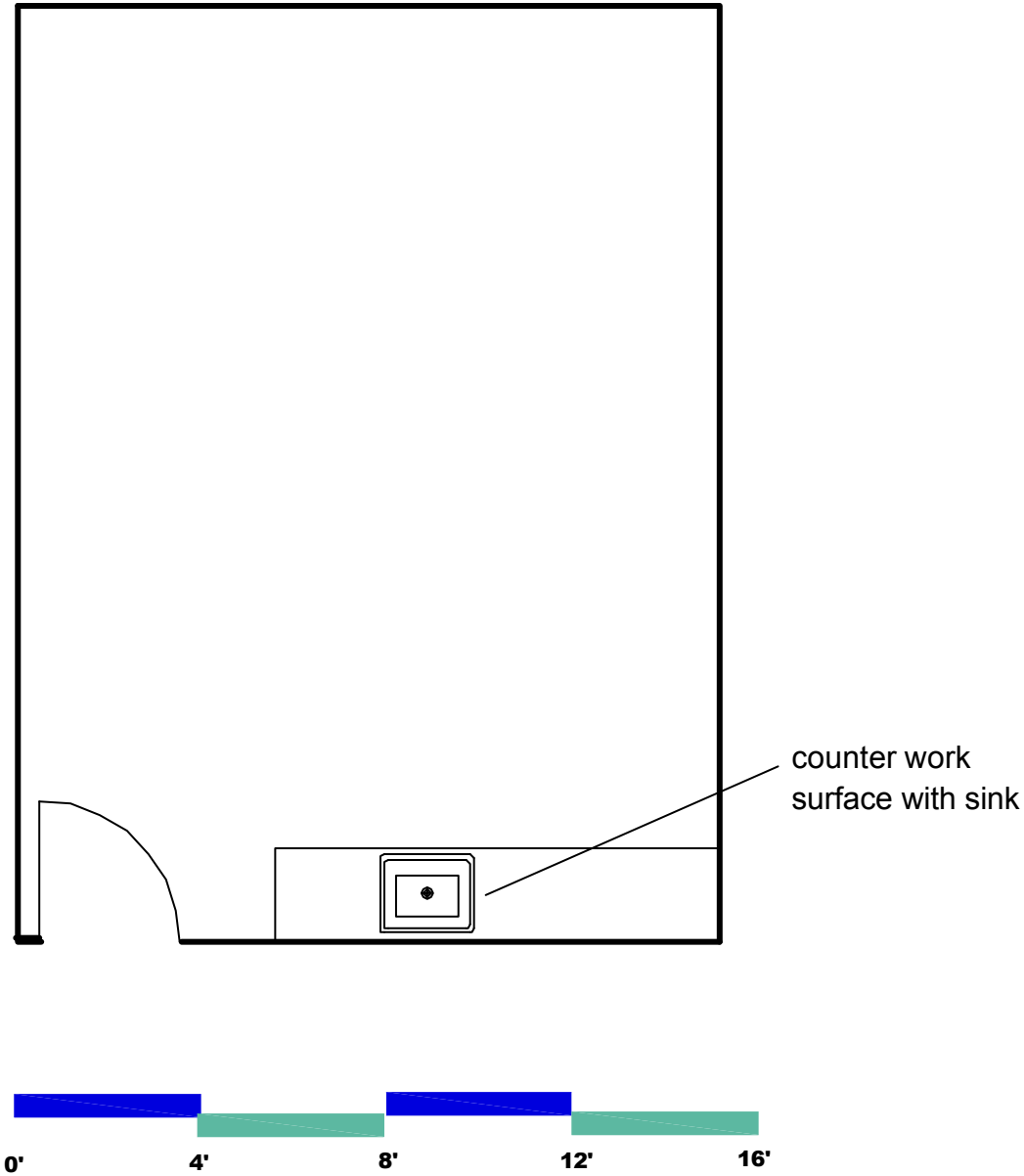
plumbing	
	handwashing sink

hazardous materials	
	biohazard and sharps disposal

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	hand-washing sinnk with base cabinet			24” x 60”
1	wall-mounted cabinet with adj. shelving			12” x 60”
1	wall-mounted sharps container			
	privacy drapes			
movable furnishings				
1	waste can			
1	biohazard disposal			
1	large mayo stand			
equipment				
1	desktop computer			
1	procedure room equipment			
1	OR suction with cart			
1	IV stand			
1	OR light			
1	dappler			
1	cast cutter			
1	spirometer with printer			
1	electrosurgical unit			
1	oxygen with cart			

space notes

Cabinets should provide storage for patient drapes, electrodes, and miscellaneous supplies.



Salt Lake Community College

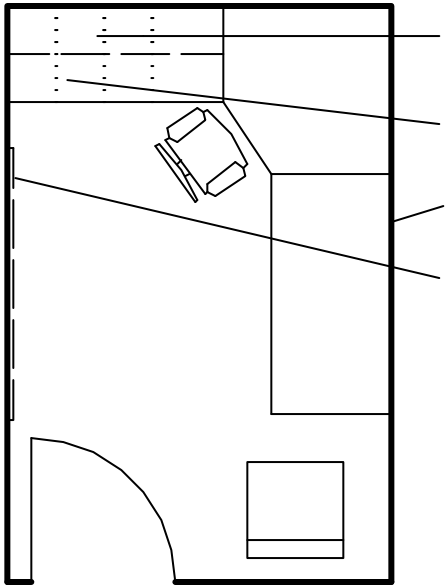
summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	2
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space
location and relationships	
location	level 3
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	
finish see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical plus capacity for equipment listed below	
power	minimum t least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface, angled corner			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
1	side chair, armless, upholstered			20” x 20” approx.
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



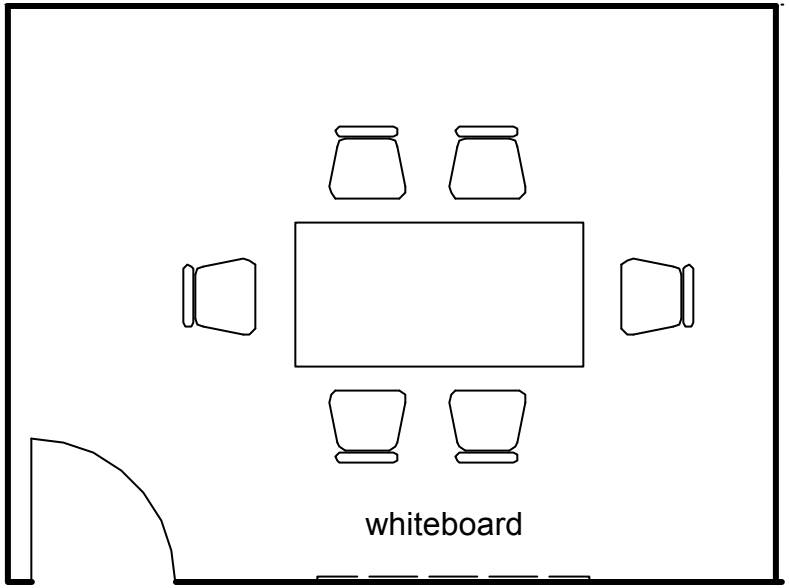
Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.

Salt Lake Community College

summary	
space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	6-8
functions	small conference area that can be converted for future faculty or adjunct work space
location and relationships	
location	upper level
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students and faculty
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each potential future work station area
data	capacity for one computer and printer at each future work station
video/tv	none
lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	capacity for future office use
controls	auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
movable furnishings				
1	waste can			
1	library reading table			36” x 72”
6	side chair, armless, upholstered			20” x 20” approx.
equipment				
	capacity for 8 laptops and for desktops at future office work stations			
	capacity for printer to serve future office uses			
	capacity for users’ personal electronic items			
space notes				

Spaces may be combined with those from other departments to create larger conference/work areas, provided that the configuration will support future conversion to faculty office or adjunct space as programs grow. This capacity will be critical to allow the building to remain functional in the future; lack of faculty space is the major spatial obstacle to program expansion.



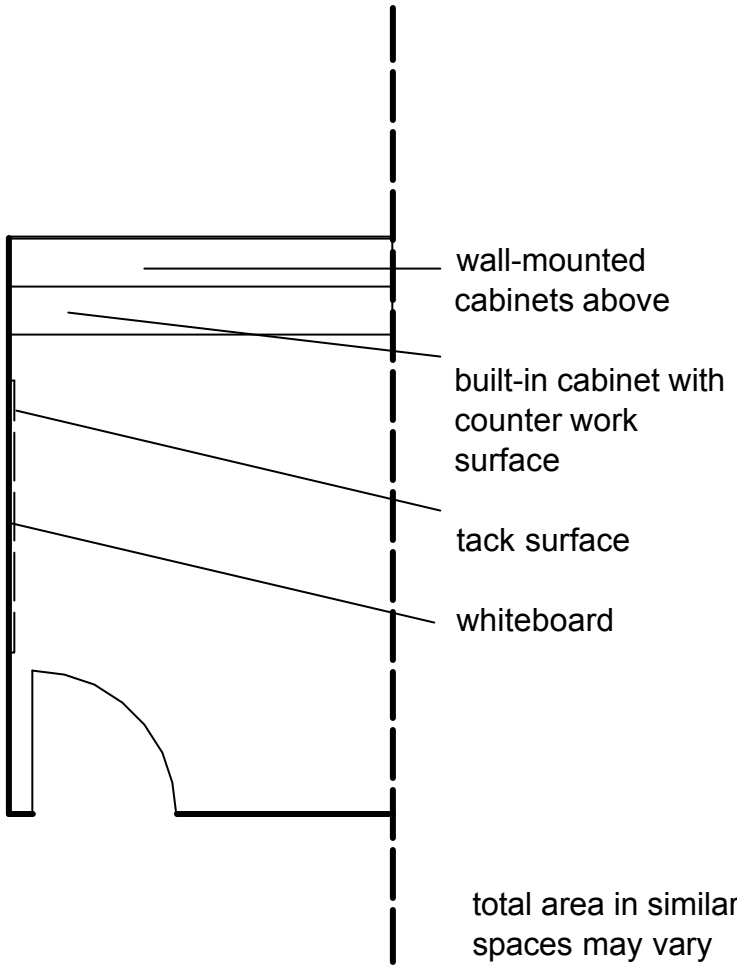
Provide a space that can easily be converted to 2 faculty offices in the future.

Can be combined with other similar areas to create a single larger space

Salt Lake Community College

summary	
space type	department storage
net sf each space	200
total of this type	1
assigned users	0
visitors	students and instructors
functions	store program suppplies and small equipment
location and relationships	
location	upper level
proximity	biotechnology lab and prep areas, large equipment storage
access	Jordan Education Center
security	department control of equipment and experiments in process
finish	**see Jordan Campus Design Guidelines**
materials & finish	painted gypsum board static-free carpet or hard-surface flooring
electrical	**plus power for equipment listed**
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	not required
data	not required
video/tv	not required
lighting	
natural light	not required
foot candles	30 general
fixture types	
task lights	not required
controls	automatic
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	
fume hoods	no
med gases	
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
8 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 8’
8 lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 8’
1	tack board / tack surface			
8 lf	open adjustable shelving			12” x 8’
movable furnishings				
1	waste receptacle, large			
equipment				
1	photocopier			
1	fax			
space notes				



slcc jordan campus health sciences center

medical lab technician

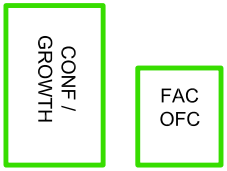
slcc jordan campus health sciences center

Salt Lake Community College

Salt Lake Community College

#	space	user capacity	quantity	nsf each	total nsf	total unassign-able sf	total gsf
01	**Faculty Office**	1	1	100	100		100
02	**Small Conference / Faculty Growth**		1	200	200		200
TOTALS					300		300

medical laboratory technician program



01 medical laboratory technican — faculty office

slcc jordan campus health sciences center

Salt Lake Community College

summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	1
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space

location and relationships	
location	upper level; 3rd of 4 levels
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor

sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

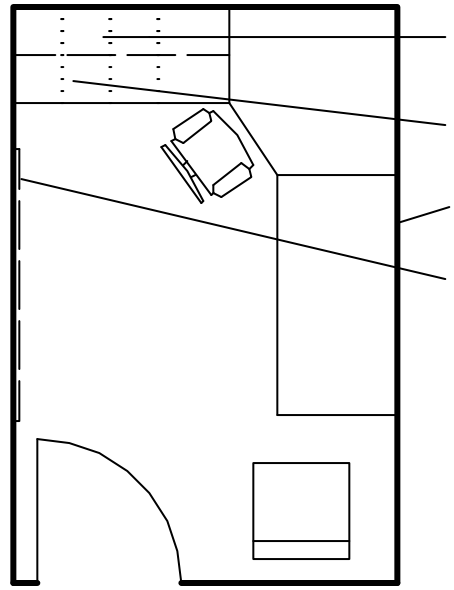
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface, angled corner			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
1	side chair, armless, upholstered			20” x 20” approx.
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.

Salt Lake Community College

summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	1
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space

location and relationships	
location	upper level; 3rd of 4 levels
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor

sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

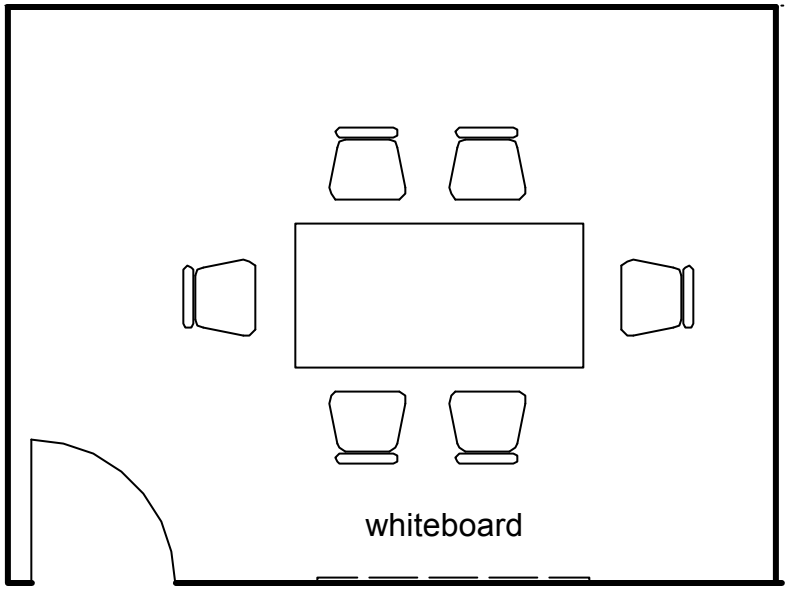
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
movable furnishings				
1	waste can			
1	library reading table			36” x 72”
6	side chair, armless, upholstered			20” x 20” approx.
equipment				
	capacity for 8 laptops and for desktops at future office work stations			
	capacity for printer to serve future office uses			
	capacity for users’ personal electronic items			

space notes

Spaces may be combined with those from other departments to create larger conference/work areas, provided that the configuration will support future conversion to faculty office or adjunct space as programs grow. This capacity will be critical to allow the building to remain functional in the future; lack of faculty space is the major spatial obstacle to program expansion.



Provide a space that can easily be converted to 2 faculty offices in the future.

Can be combined with other similar areas to create a single larger space

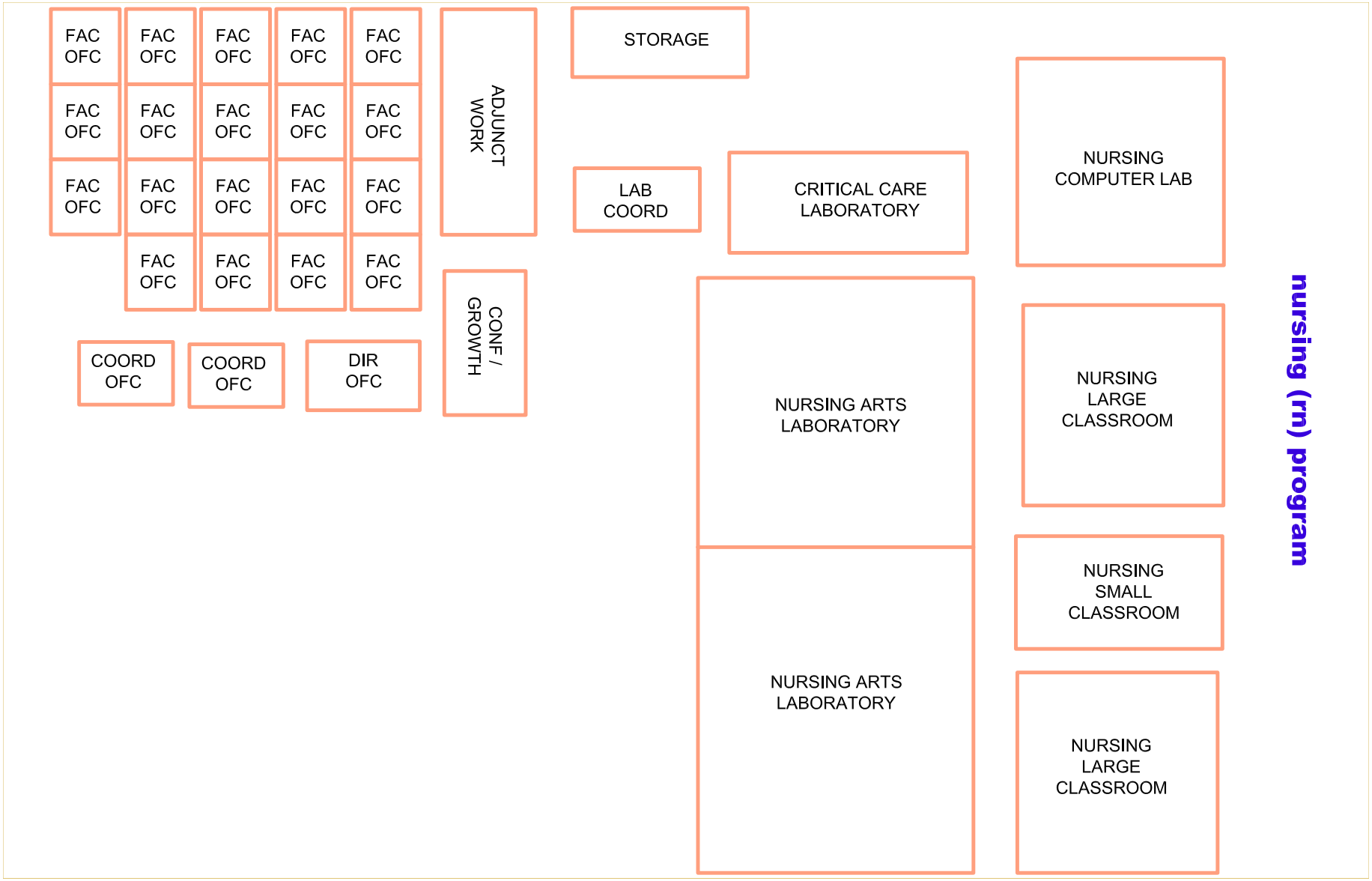
02 medical laboratory technican
slcc jordan campus health sciences center

nursing (rn)
slcc jordan campus health sciences center

Salt Lake Community College

#	space	user capacity	quantity	nsf each	total nsf	total unassign-able sf	total gsf
01	Small Classroom	20	1	600	600		600
02	Large Classroom	36	2	1,080	2,160		2,160
03	Nursing Arts Lab	20	2	1,790	3,580		3,580
04	Critical Care Lab	20	1	500	500		500
05	Computer Lab	36	1	1,260	1,260		1,260
06	Storage		1	300	300		300
07	Director Office		1	150	150		150
08	Program Coordinator Office		2	120	240		240
09	Faculty Office	1	19	100	1,900		1,900
10	Adjunct Work Space	10	10	50	500		500
11	Small Conference / Faculty Growth		1	200	200		200
12	Lab Coordinator Office		1	240	240		240
TOTALS					11,640		11,640

Salt Lake Community College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DIR OFC
ADJUNCT WORK
CONF / GROWTH
STORAGE
LAB COORD
CRITICAL CARE LABORATORY
NURSING ARTS LABORATORY
NURSING ARTS LABORATORY
NURSING COMPUTER LAB
NURSING LARGE CLASSROOM
NURSING SMALL CLASSROOM
NURSING LARGE CLASSROOM
nursing (rn) program

small classroom

Salt Lake Community College

summary

space type	classroom
net sf each space	600
total of this type	1
assigned users	20
visitors	visiting professionals
functions	classroom instruction

location and relationships

see drawing, page

location	main level
proximity	Wellness / Service Learning Center Nursing Arts Lab
access	instructional computer lab scrub and sterile prep areas
security	department control of equipment and models

finish

see also Design Guidelines

materials & finish	gypsum board, vinyl tile

electrical

plus capacity for equipment listed below

power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector; instructor podium
phone	Internet access
data	hook-ups for student laptops; instructor podium -- 3 network connections, 1-2 outlets on surface, permanent computer, input for laptop; ceiling location for projector
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector

lighting

natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard; direct light on instructor area; avoid conflict with sight lines for projection
task lights	at instructor podium
controls	at instructor podium auto sensor

sound control

stc	45-50
full sound walls	no

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
med gases	none
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

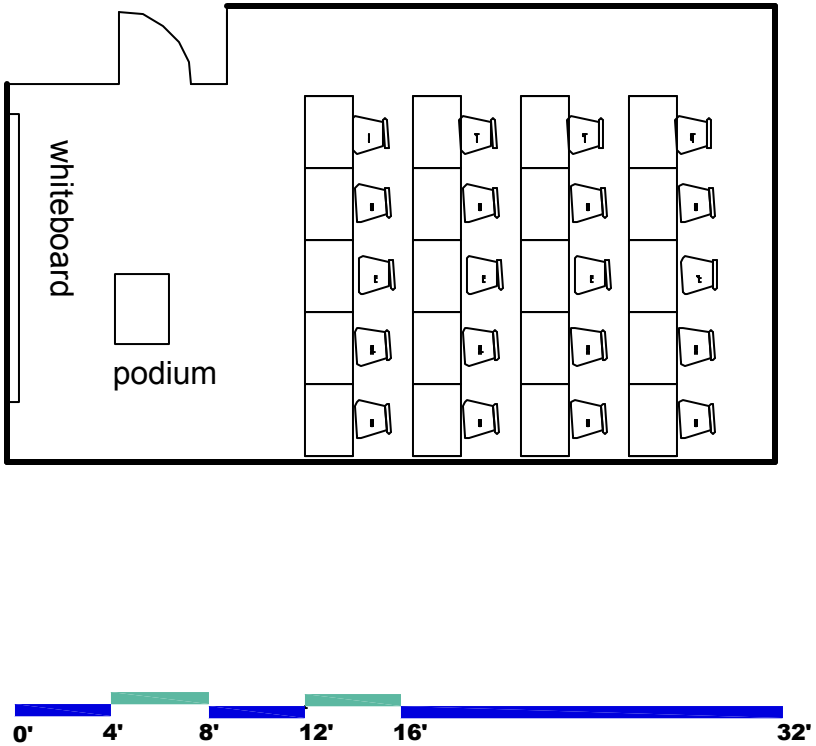
plumbing

	none

hazardous materials

	may be present in demonstrations

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor podium			
4	whiteboards			48” x 144”
1	projection screen			48” x 60”
	ceiling projection mounts			
	tack strips			
	tack boards			
movable furnishings				
20	student desks			20” x 36”
20	student chairs, armless, on casters			
2	waste cans			14”
equipment				
20	student laptops			
1	clock linked to campus master			
1	VCR			
1-2	DVD players			
1	document camera			
1	permanent in-room computer			
1	switching system			
	audio speakers			
	audio amplifier if needed			
space notes				



large classroom

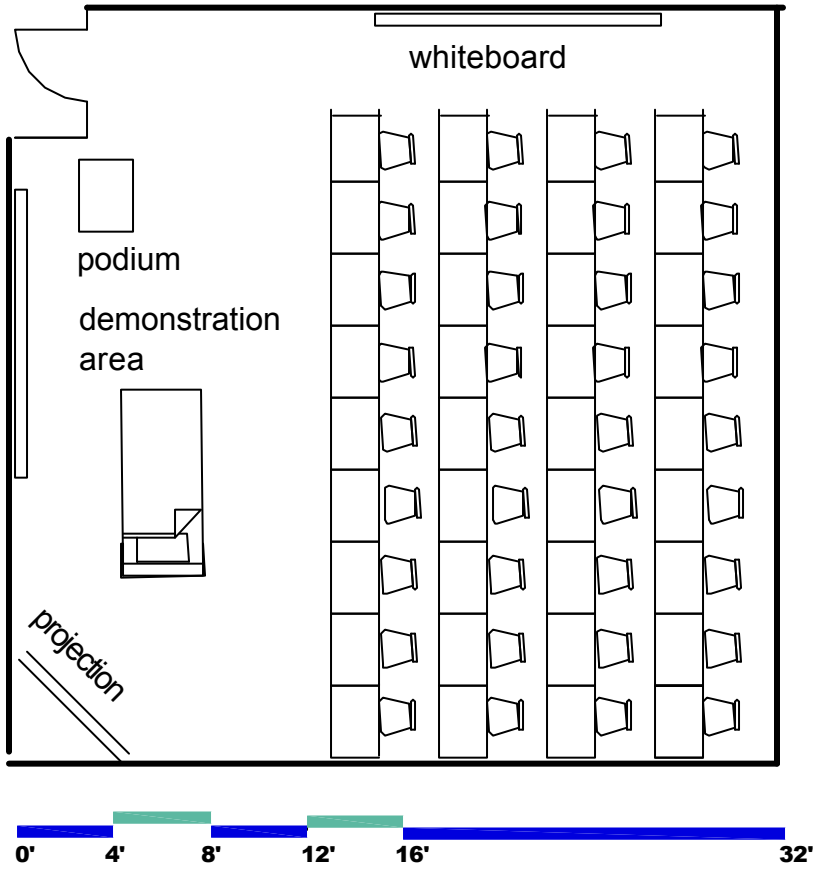
Salt Lake Community College

summary	
space type	classroom
net sf each space	1,080
total of this type	2
assigned users	36
visitors	visiting professionals
functions	classroom instruction
location and relationships see drawing, page	
location	main level
proximity	Wellness / Service Learning Center Nursing Arts Lab
access	instructional computer lab scrub and sterile prep areas
security	department control of equipment and models
finish see also Design Guidelines	
materials & finish	gypsum board, vinyl tile
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector; instructor podium; back wall for plasma screen
phone	Internet access
data	hook-ups for student laptops; instructor podium -- 3 network connections, 1-2 outlets on surface, permanent computer, input for laptop; ceiling location for projector EDNET send and Receive capacity
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector
lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard; direct light on instructor area; avoid conflict with sight lines for projection
task lights	at instructor podium
controls	at instructor podium auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	may be present in demonstrations

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor podium			
4	whiteboards			48” x 144”
1	projection screen			48” x 60”
	ceiling projection mounts			
	tack strips			
	tack boards			
movable furnishings				
36	student desks			20” x 36”
36	student chairs, armless, on casters			
2	waste cans			14”
equipment				
36	student laptops			
1	clock linked to campus master			
	capacity for wireless microphones, a/v equipment, pencil sharpener, instructor and student laptops, demonstration equipment at instructor podium			
1	VCR			
1-2	DVD players			
1	document camera			
1	permanent in-room computer			
1	switching system			
	audio speakers			
	audio amplifier if needed			

space notes

Will require space for demonstration materials such as mannikins, skeletons, and models



Salt Lake Community College

summary	
space type	simulated patient care area
net sf each space	1,790
total of this type	2
assigned users	20
visitors	visiting professionals
functions	experiential learning and skill development
location and relationships see drawing, page	
location	main level
proximity	Wellness / Service Learning Center Nursing Arts Lab
access	instructional computer lab scrub and sterile prep areas
security	department control of equipment and models
finish see also Design Guidelines	
materials & finish	gypsum board, vinyl tile
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector; instructor podium
phone	Internet access
data	hook-ups for student laptops; instructor podium -- 3 network connections, 1-2 outlets on surface, permanent computer, input for laptop; ceiling location for projector
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector EDNET send and receive capacity
lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks; lighting for EDNET projection
fixture types	direct/indirect general illumination; wash at whiteboard; direct light on instructor area; avoid conflict with sight lines for projection
task lights	at instructor podium portable examination lights
controls	at instructor podium auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
med gases	oxygen and suction
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	sink

hazardous materials

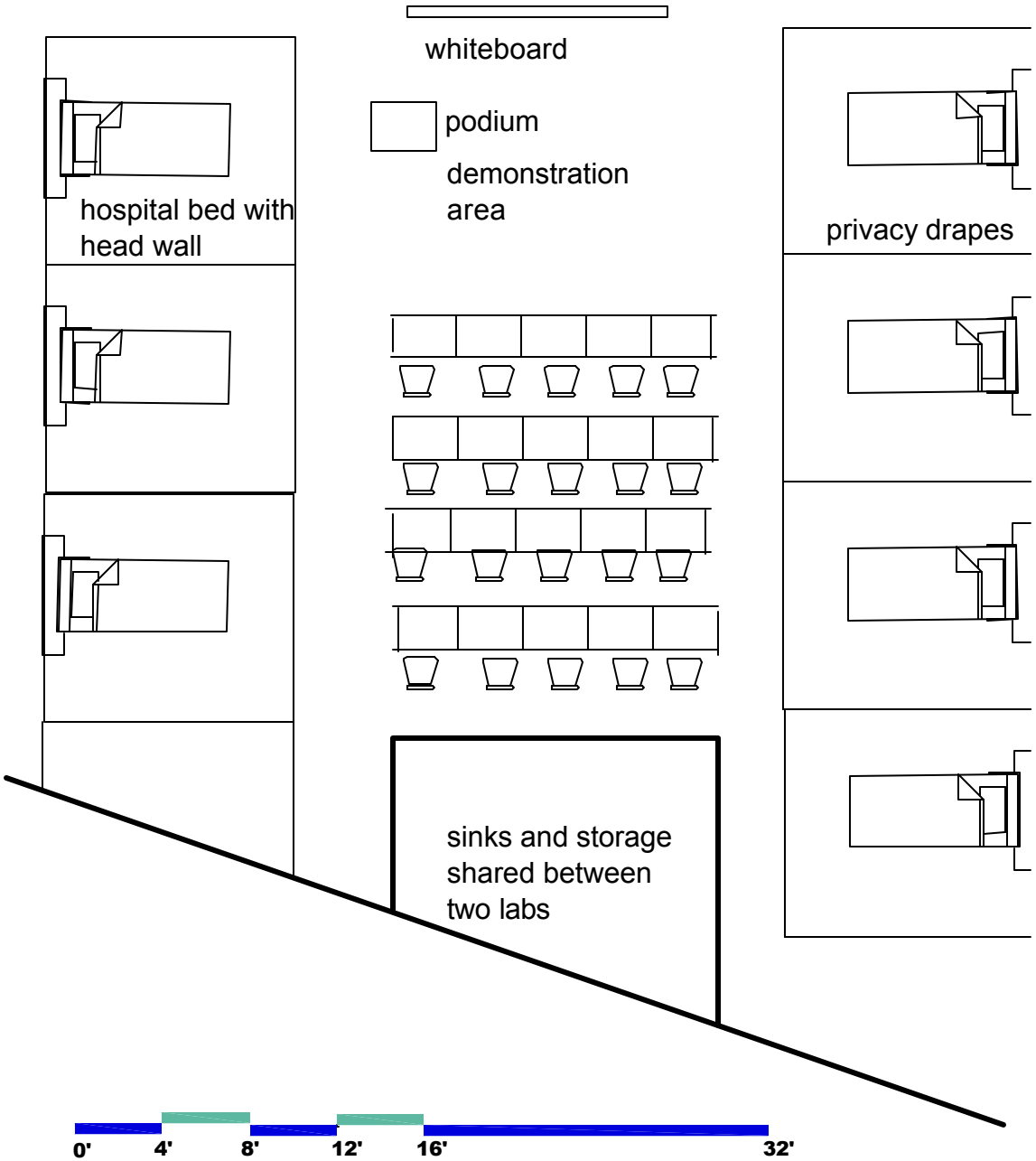
	biohazard and sharps disposal

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor podium			
1	whiteboards			48” x 144”
1	projection screen			48” x 60”
	ceiling projection and camera mounts			
	tack strips			
	tack boards			
	linen storage cabinets			
	wall-mounted cabinets with adj. shelves			
	base cabinets with counter work surface and sink			
10	privacy drapes			
movable furnishings				
10	hospital type patient care beds with headboards			
36	student desks			
36	student chairs			
equipment				
36	student laptops			
1	clock linked to campus master			
1	VCR			
1-2	DVD players			
1	document camera			
1	permanent in-room computer			
1	switching system			
	audio speakers			
	audio amplifier			
1	crash cart			
1	cath sim computer with mobile cabinets			60” high
1	sim man high-tech mannikin			
1	computer printer			
5 -10	mannikins			
5	baby scale			
6	IV pumps			
1	kangaroo pump			
1	hoyer lift			

space notes

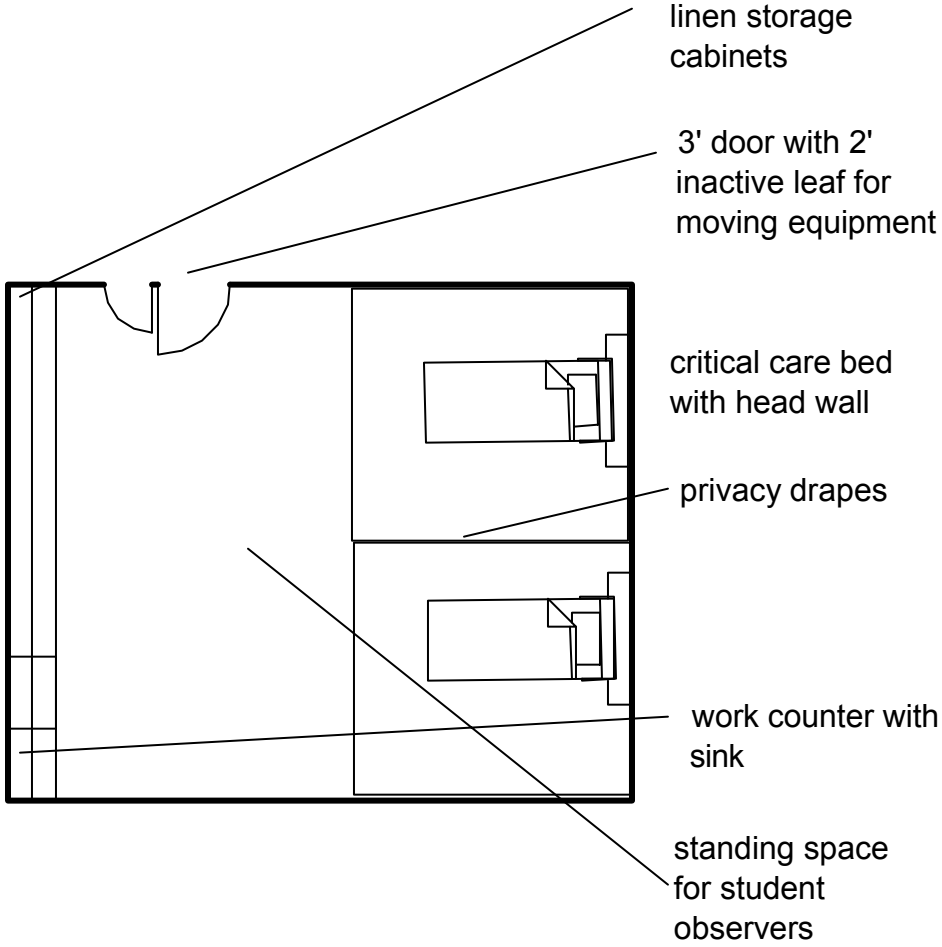
Should include an instructional area with student desks in addition to simulated patient care areas. Realistic configuration with a simulated nurses’ station and charting areas may be desirable. Students will require a minimum of 2 working oxygen and suction lines to practice suctioning with mannikins.

Linen storage may be part of an adjacent storage area; it should be configured to facilitate stocking of clean linen and disposal of soiled linen. Linens are delivered by a laundry service on rolling carts.



Salt Lake Community College

critical care laboratory



critical care laboratory

Salt Lake Community College

summary	
space type	simulated patient care area
net sf each space	500
total of this type	1
assigned users	20
visitors	visiting professionals
functions	experiential learning and skill development
location and relationships see drawing, page	
location	main level
proximity	Wellness / Service Learning Center Nursing Arts Lab
access	instructional computer lab scrub and sterile prep areas
security	department control of equipment and models
finish see also Design Guidelines	
materials & finish	gypsum board, vinyl tile
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector; instructor podium
phone	Internet access
data	hook-ups for student laptops
video/tv	capacity for future projection
lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard
task lights	at instructor podium portable examination lights
controls	at instructor podium auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
med gases	oxygen and suction
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	sink
hazardous materials	
	biohazard and sharps disposal

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor podium			
1	whiteboards			48” x 144”
1	projection screen			48” x 60”
	ceiling projection and camera mounts			
	tack strips			
	tack boards			
	linen storage cabinets			
	wall-mounted cabinets with adj. shelves			
	base cabinets with counter work surface and sink			
2	privacy drapes			
movable furnishings				
2	hospital type intensive care beds with headboards			
1	waste receptacle			
1	biohazard disposal			
equipment				
10	student laptops			
1	clock linked to campus master			
1	switching system			
1	crash cart			
1	cath sim computer with mobile cabinets			60” high
1	sim man high-tech mannikin			
1	computer printer			
2	mannikins			

space notes

Linen storage may be part of an adjacent storage area shared with the nursing arts lab; it should be configured to facilitate stocking of clean linen and disposal of soiled linen. Linens are delivered by a laundry service on rolling carts.

Space may be separated from nursing arts lab by a partition. A realistic configuration, which integrates patient care beds, critical care beds, and a nurses station, would be desirable. Critical care beds may be differentiated to reflect different care situations.

see drawing page 185

Salt Lake Community College

summary

space type	instructional computer lab
net sf each space	1,260 sf
total of this type	1
assigned users	36 students
visitors	visiting professionals
functions	computer instruction student lab when class not in session

location and relationships

location	level 3
proximity	medical assistants classrooms and labs
access	may be shared when not in use for classes
security	department control of equipment and software

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet or vinyl tile painted gypsum board

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	2 lines
data	at each student station and lab instructor area
video/tv	EDNET send and receive capacity

lighting

natural light	not required; provide adequate light control to prevent glare on screens if room has natural light.
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect
task lights	no
controls	automatic sensor

sound control

	50
full sound walls	no

mechanical

outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

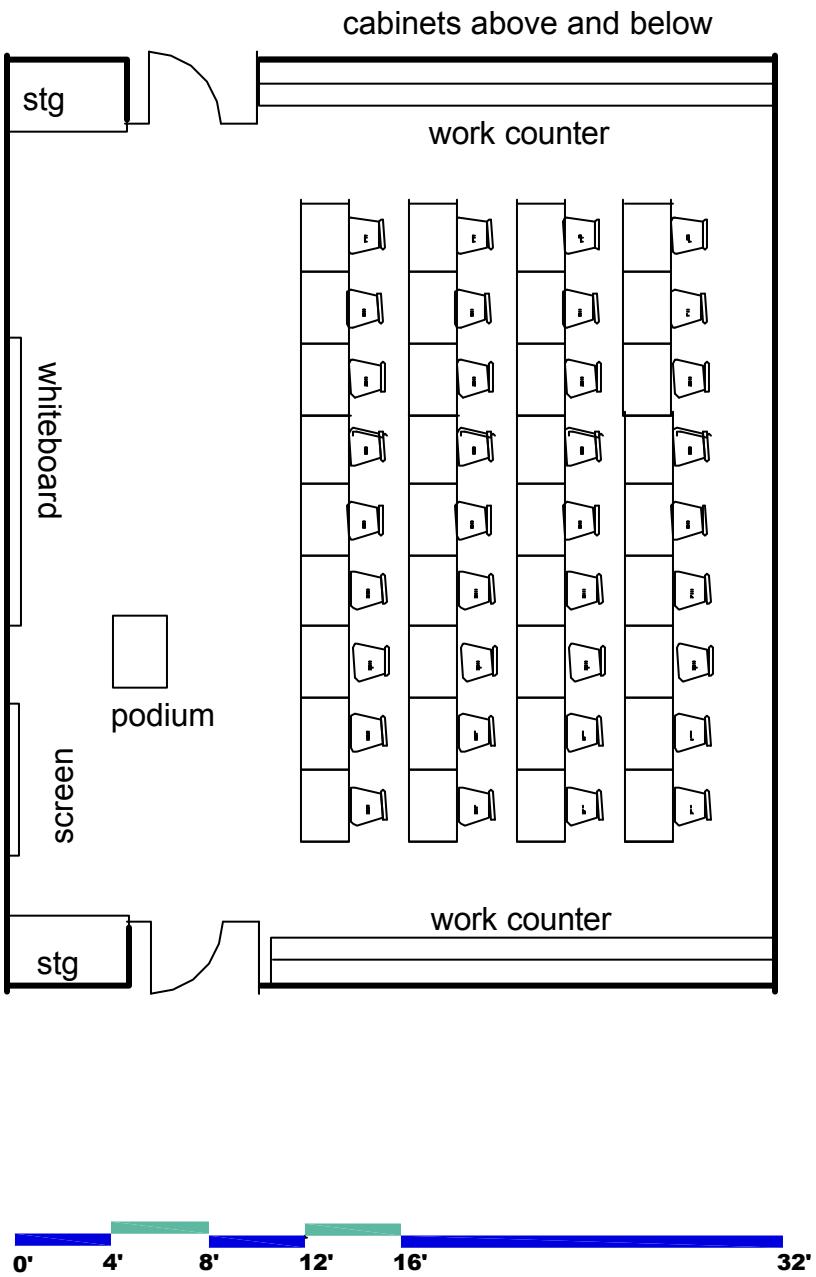
plumbing

none

hazardous materials

none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard			48” x 144”
	tack strips			
	tack boards			
movable furnishings				
2	waste cans			
36	computer work tables			
36	work chairs, on casters, armless			
equipment				
36	desltop computers			
6	computer printers			
1	clock linked to campus master			
space notes				

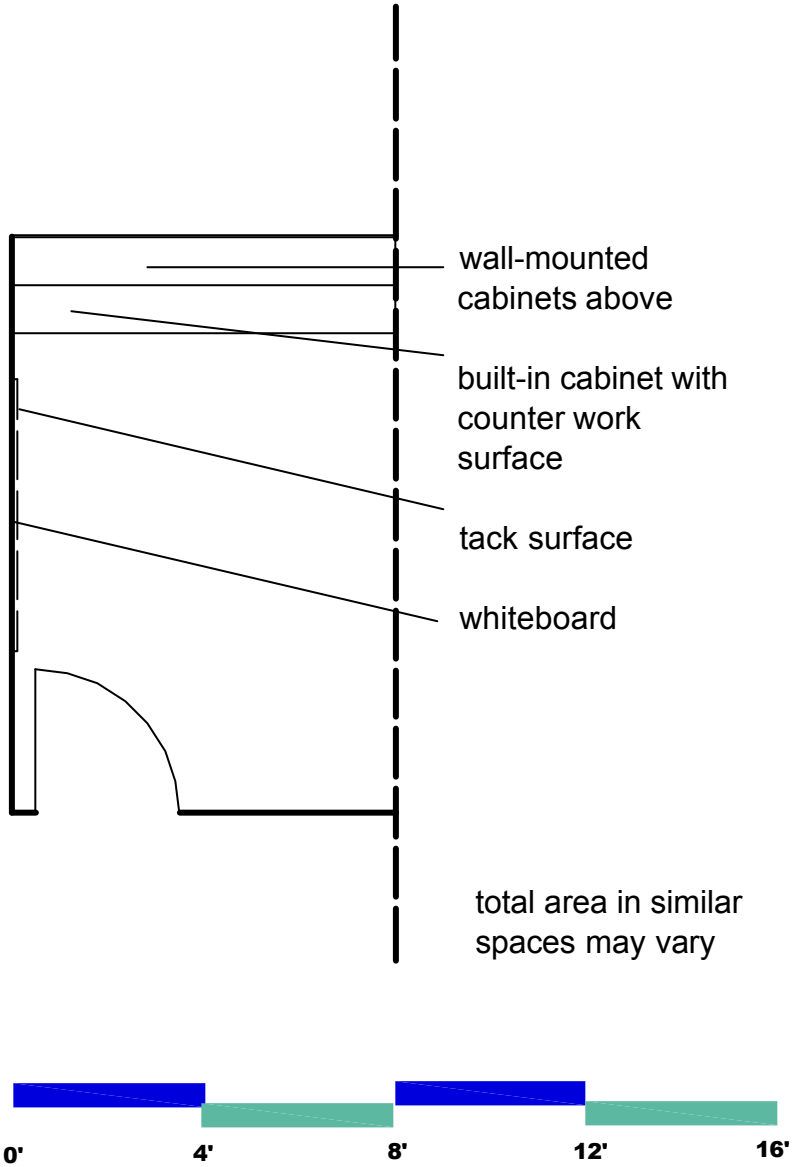


storage

Salt Lake Community College

summary	
space type	department storage
net sf each space	300
total of this type	1
assigned users	0
visitors	students and instructors
functions	store program suppplies and small equipment
location and relationships	
location	upper level
proximity	nursing arts lab, critical care lab nursing classrooms, computer lab
access	convenient access to central building receiving area
security	department control of equipment and experiments in process
finish see Jordan Campus Design Guidelines	
materials & finish	painted gypsum board static-free carpet or hard-surface flooring
electrical plus capacity for equipment listed below	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity for future use
data	capacity for future use
video/tv	not required
lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 10’
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 10’
1	tack board / tack surface			
10 lf	open adjustable shelving			12” x 10’
movable furnishings				
1	waste receptacle, large			
equipment				
1	photocopier			
1	fax			
space notes				



director office

Salt Lake Community College

summary	
space type	enclosed private office
net sf each space	150 sf
total of this type	2
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space

location and relationships	
location	main level
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	wireless keypad

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at desk
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor

sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no

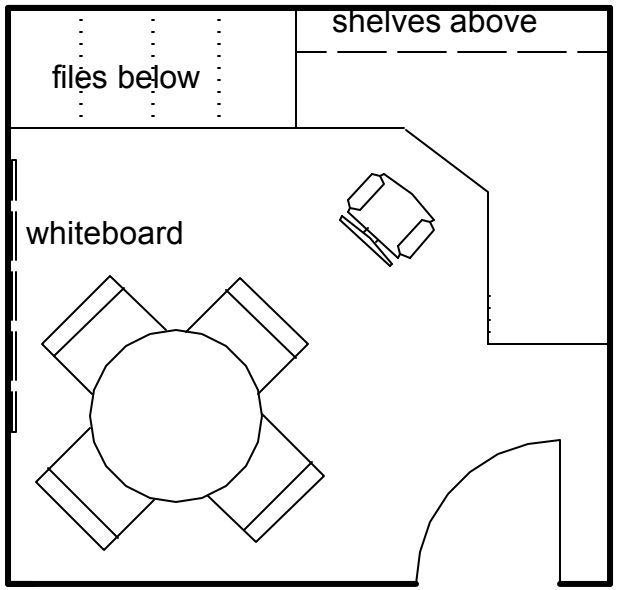
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface, angled corner			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
4	side chair, armless, upholstered			20” x 20” approx.
1	table			42” round
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).

Provide privacy for confidential transactions



Provide flexiblity to allow faculty to select preferred configuration and rearrange in the future.

program coordinator office

Salt Lake Community College

summary	
space type	enclosed private office
net sf each space	125 sf
total of this type	2
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space

location and relationships	
location	main level
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	wireless keypad

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at desk
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor

sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

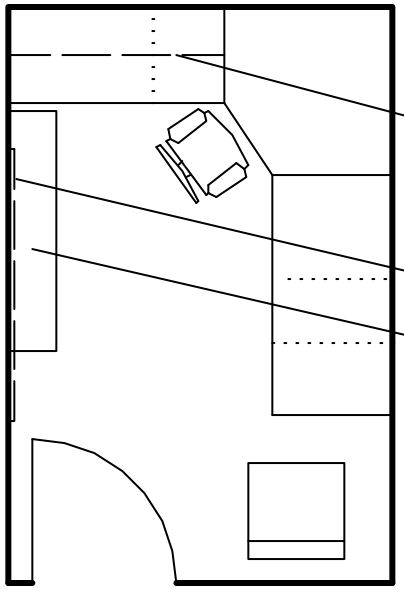
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface, angled corner			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
2	side chair, armless, upholstered			20” x 20” approx.
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



Provide flexiblity to allow faculty to select preferred configuration and rearrange in the future.

faculty office

Salt Lake Community College

summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	19
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space

location and relationships	
location	main level
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	wireless keypad

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at desk
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor

sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

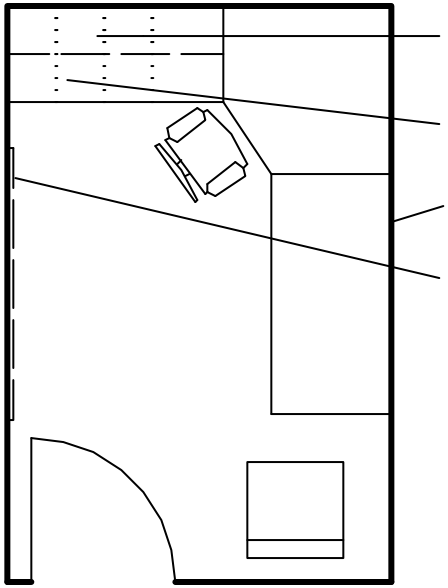
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface, angled corner			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
1	side chair, armless, upholstered			20” x 20” approx.
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.

adjunct work area

Salt Lake Community College

summary	
space type	enclosed shared work area
net sf each space	500 sf
total of this type	1
assigned users	10 adjunct faculty at a time
visitors	1-2 students
functions	professional work space for adjunct faculty who do not have assigned individual offices

location and relationships	
location	upper level
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students faculty access to labs and classrooms

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each work station
data	capacity for one computer and printer at each work station
video/tv	none

lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor

sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

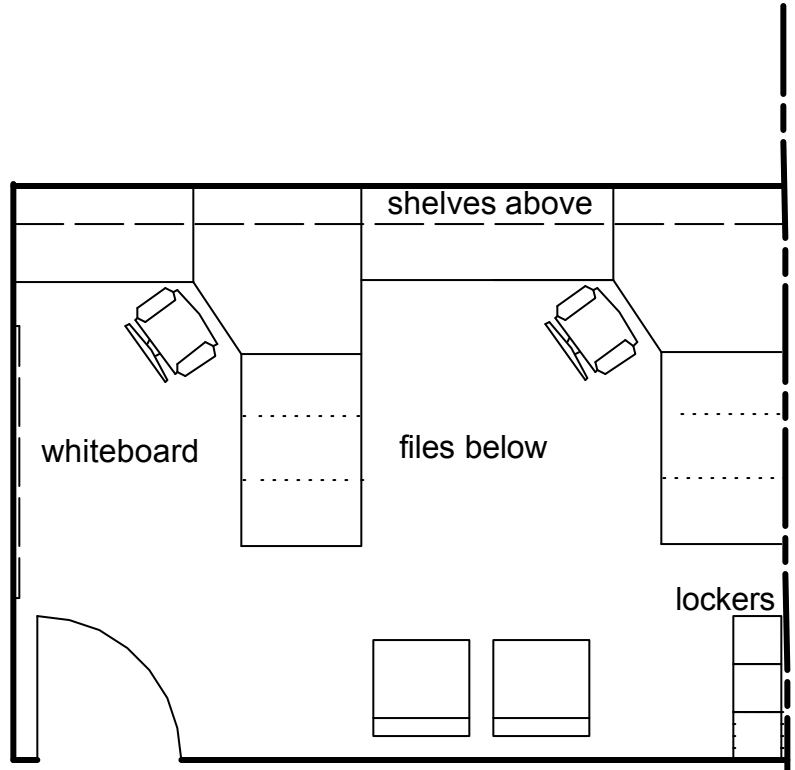
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
	half-height lockers			12” x 12” x 36”
movable furnishings				
10	waste can			
10	work surface			30’ x 54”
10	letter size file pedestals			15” x 29”
10	work surface			30” x 30”
10	work surface, angled corner			
10	shelf unit, 4 shelves			12” x 60”
10	work station coat hook, tack surface, keyboard drawer			
10	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
10	side chair, armless, upholstered			20” x 20” approx.
equipment				
10	desltop or laptop computer			
5	computer printer			
	capacity for users’ personal electronic items			

space notes

Adjunct spaces may be combined to create larger work-rooms shared by adjuncts from more than one department. Lockers for all adjunct areas on a floor may be clustered in or adjacent to work and break areas.



Provide flexiblity to accommodate adjuncts in a space that can easily be converted to house full-time faculty in the future. Spaces may be clustered in varying numbers, but each area should be evenly divisible into future offices.

small conference/ faculty growth

11 nursing(rn)
slcc jordan campus health sciences center

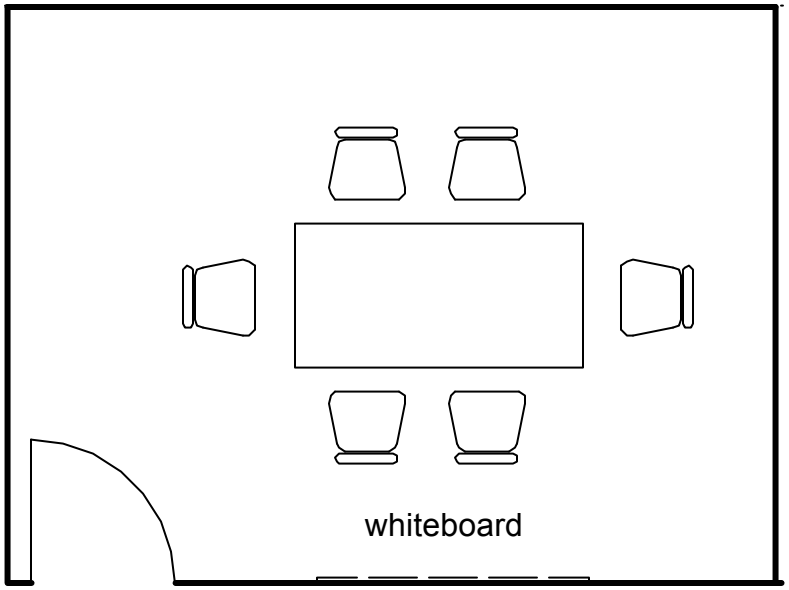
Salt Lake Community College

summary	
space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	6-8
functions	small conference area that can be converted for future faculty or adjunct work space
location and relationships	
location	main level
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students and faculty
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each potential future work station area
data	capacity for one computer and printer at each future work station
video/tv	none
lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	capacity for future office use
controls	auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
movable furnishings				
1	waste can			
1	library reading table			36” x 72”
6	side chair, armless, upholstered			20” x 20” approx.
equipment				
	capacity for 8 laptops and for desktops at future office work stations			
	capacity for printer to serve future office uses			
	capacity for users’ personal electronic items			

space notes

Spaces may be combined with those from other departments to create larger conference/work areas, provided that the configuration will support future conversion to faculty office or adjunct space as programs grow. This capacity will be critical to allow the building to remain functional in the future; lack of faculty space is the major spatial obstacle to program expansion.



Provide a space that can easily be converted to 2 faculty offices in the future.

Can be combined with other similar areas to create a single larger space

12 nursing (rn)
slcc jordan campus health sciences center
lab coordinator office

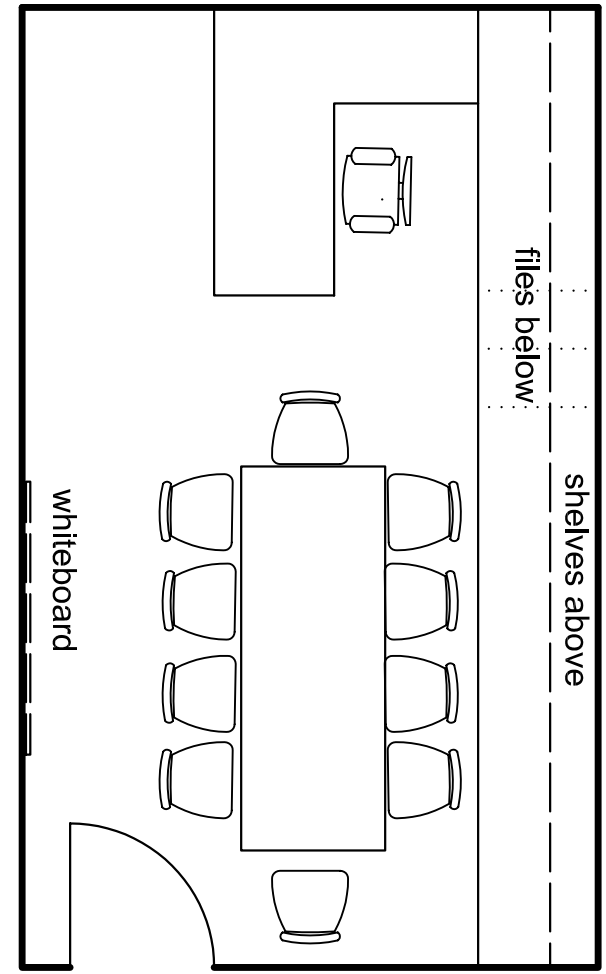
Salt Lake Community College

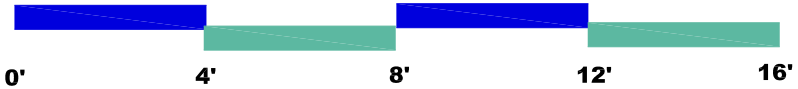
summary	
space type	enclosed private office with conference area
net sf each space	250 sf
total of this type	1
assigned users	1 full-time faculty person
visitors	10-12 students
functions	professional work space
location and relationships	
location	main level
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	wireless keypad
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at desk
data	computer work area
video/tv	none
lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
1	base cabinet with work counter			24” x 10’
1	wall-mounted cabinet			12’ x 10’
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit,4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
10	side chair, armless, upholstered			20” x 20” approx.
1	work table			36” x 96”
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits). Coordinator office provides additional space for preparation and storage of lab materials, and for meetings with student groups.



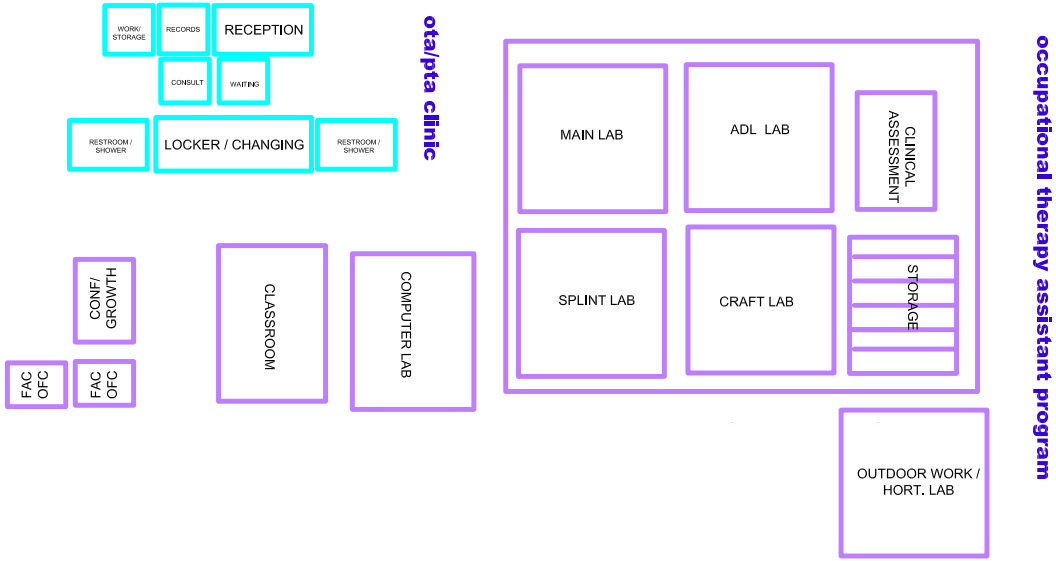


occupational therapy assistant
slcc jordan campus health sciences center

Salt Lake Community College

Salt Lake Community College

#	space	user capacity	quantity	nsf each	total nsf	total unassign-able sf	total gsf
01	Classroom	24	1	720	720		720
02	Information Area		1	50	50		50
03	Computer Lab	24	1	840	840		840
04	Clinical Assessment Area	3	1	384	384		384
05	Activities of Daily Life (ADL) Laboratory	12	1	600	600		600
06	Crafts Laboratory	12	1	600	600		600
07	Splinting Laboratory	12	1	200	200		200
08	Sensory Integration Laboratory	12	1	600	600		600
09	Outdoor Laboratory	space not calculated as part of building area, but function should be included in site design					
10	Office Storage		1	100	100		100
11	Adaptive Equipment Storage		1	150	150		150
12	Crafts Storage		1	150	150		150
13	Splinting Storage		1	50	50		50
14	ADL Environment Storage		1	50	50		50
15	Outdoor Equipment Storage		1	100	100		100
16	Faculty Office		2	100	100		100
17	Small Conference / Faculty Growth		1	200	200		200
TOTALS					4,494		4,494


occupational therapy assistant program
MAIN LAB
ADL LAB
CLINICAL ASSESSMENT
SPLINT LAB
CRAFT LAB
STORAGE
OUTDOOR WORK / HORT. LAB
COMPUTER LAB
CLASSROOM
ota/pta clinic
WORK/ STORAGE
RECORDS
RECEPTION
CONSULT
WAITING
RESTROOM / SHOWER
LOCKER / CHANGING
RESTROOM / SHOWER
CONF/ GROWTH
FAC OFC
FAC OFC

Salt Lake Community College

summary

space type	classroom
net sf each space	720
total of this type	1
assigned users	24
visitors	visiting professionals
functions	classroom instruction

location and relationships

see drawing, page

location	main level
proximity	OTA lab, instructional computer lab, and clinic; information area
access	faculty office and work areas
security	department control of equipment and models

finish

see also Design Guidelines

materials & finish	gypsum board, vinyl tile

electrical

plus capacity for equipment listed below

power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector; instructor podium
phone	Internet access
data	hook-ups for student laptops; instructor podium -- 3 network connections, 1-2 outlets on surface, permanent computer, input for laptop; ceiling location for projector
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector

lighting

natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard; direct light on instructor area; avoid conflict with sight lines for projection
task lights	at instructor podium
controls	at instructor podium auto sensor

sound control

stc	45-50
full sound walls	no

mechanical

outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
med gases	none
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

none

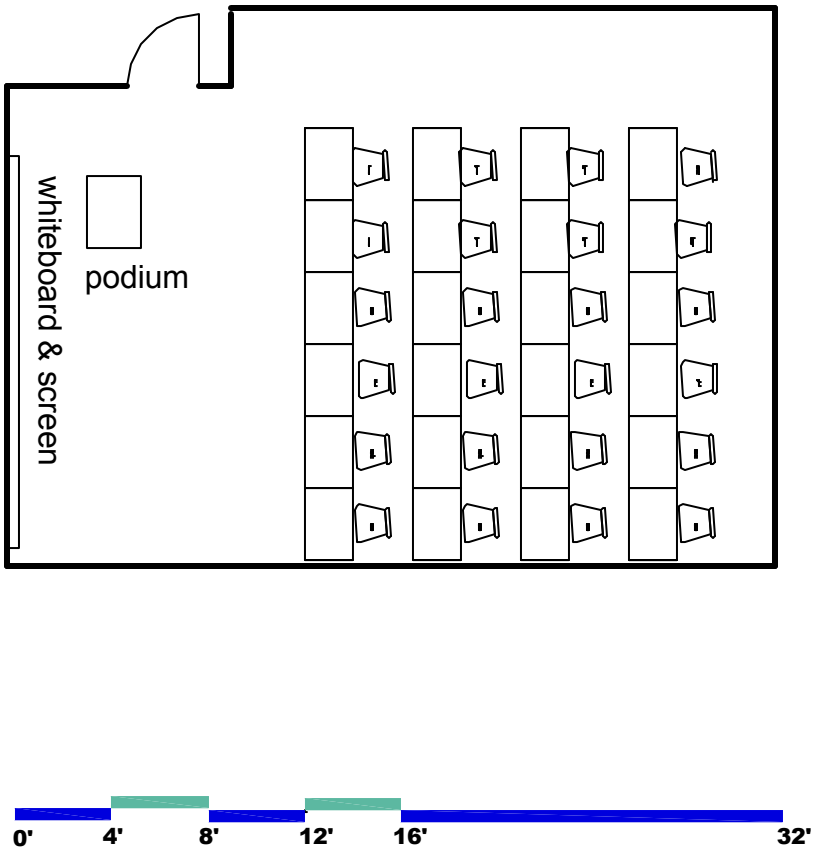
hazardous materials

none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor podium			
4	whiteboards			48” x 144”
1	projection screen			48” x 60”
	ceiling projection mounts			
	tack strips			
	tack boards			
movable furnishings				
24	student desks			20” x 36”
24	student chairs, armless, on casters			
2	waste cans			14”
equipment				
20	student laptops			
1	clock linked to campus master			
1	VCR			
1-2	DVD players			
1	document camera			
1	permanent in-room computer			
1	switching system			
	audio speakers			
	audio amplifier if needed			

space notes

Should provde a quiet space where students can learn collaborative skills. Instruction alternates between lab and classroom. Must support student laptops and PowerPoint presenations.



Salt Lake Community College

summary

space type	open information area
net sf each space	50 sf
total of this type	1
assigned users	none
visitors	OTA and other health sciences students
functions	display and information distribution

location and relationships

location	lower level
proximity	OTA classroom and lab
access	exposure to students in other health sciences disciplines
security	

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	none
data	capacity for future use
video/tv	none

lighting

natural light	no
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor

sound control

stc	30
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	none

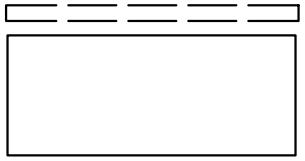
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	tack board			48” x 48’
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
equipment				

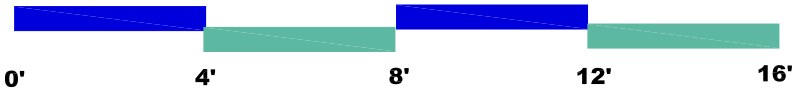
space notes

Space should acccommodate distribution of photocopied materials, professional journals, brochures and other informational materials. Provide space for posting announcements and program information.

tack board or surface above

table for information display





instructional computer lab

Salt Lake Community College

summary

space type	instructional computer lab
net sf each space	840 sf
total of this type	1
assigned users	24 students
visitors	visiting professionals
functions	computer instruction student lab when class not in session

location and relationships

location	lower level
proximity	OTA lab, clinical assessment area
access	may be shared when not in use for classes
security	department control of equipment and software

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet or vinyl tile painted gypsum board

electrical

plus capacity for equipment listed below

power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall; power at counter for printers
backup generator	life safety only
phone	2 lines
data	at each student station
video/tv	none

lighting

natural light	not required; provide adequate light control to prevent glare on screens if room has natural light.
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect
task lights	no
controls	automatic sensor

sound control

stc	50
full sound walls	no

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

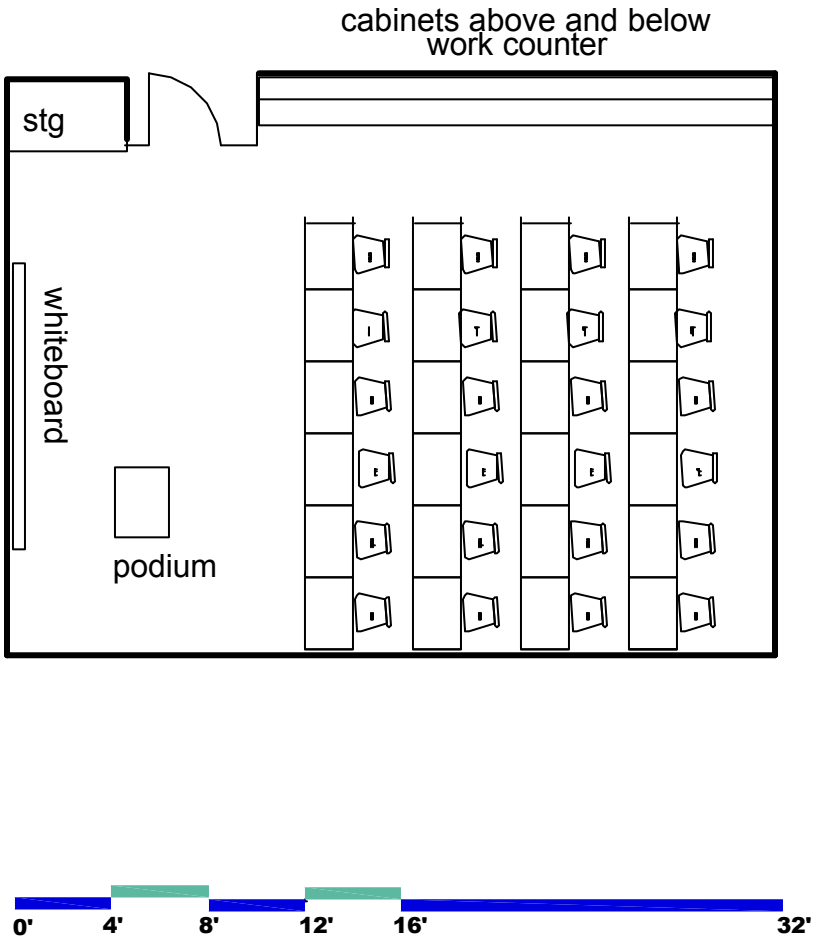
plumbing

none

hazardous materials

none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard			48” x 144”
	tack strips			
	tack boards			
	base cabinet with counter work surface			24” x 12 lf
movable furnishings				
2	waste cans			
24	computer work tables			
24	work chairs, on casters, armless			
1-2	file cabinets, 4 drawer letter size			18” x 29”
4	book shelf, 4 shelves			12” x 36”
1	instructor table			
equipment				
24	desltop computers			
6	computer printers			
1	clock linked to campus master			
space notes				



Salt Lake Community College

summary	
space type	enclosed private room
net sf each space	384 sf
total of this type	1
assigned users	none
visitors	3
functions	professional work space to allow confidential assessment of patients with disabilities

location and relationships	
location	lower level
proximity	in or adjacent to computer lab
access	OTA main lab assistive technology storage
security	wireless keypad access

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
backup generator	life safety only
phone	Internet access
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor

sound control	
atc	45-50
full sound walls	yes

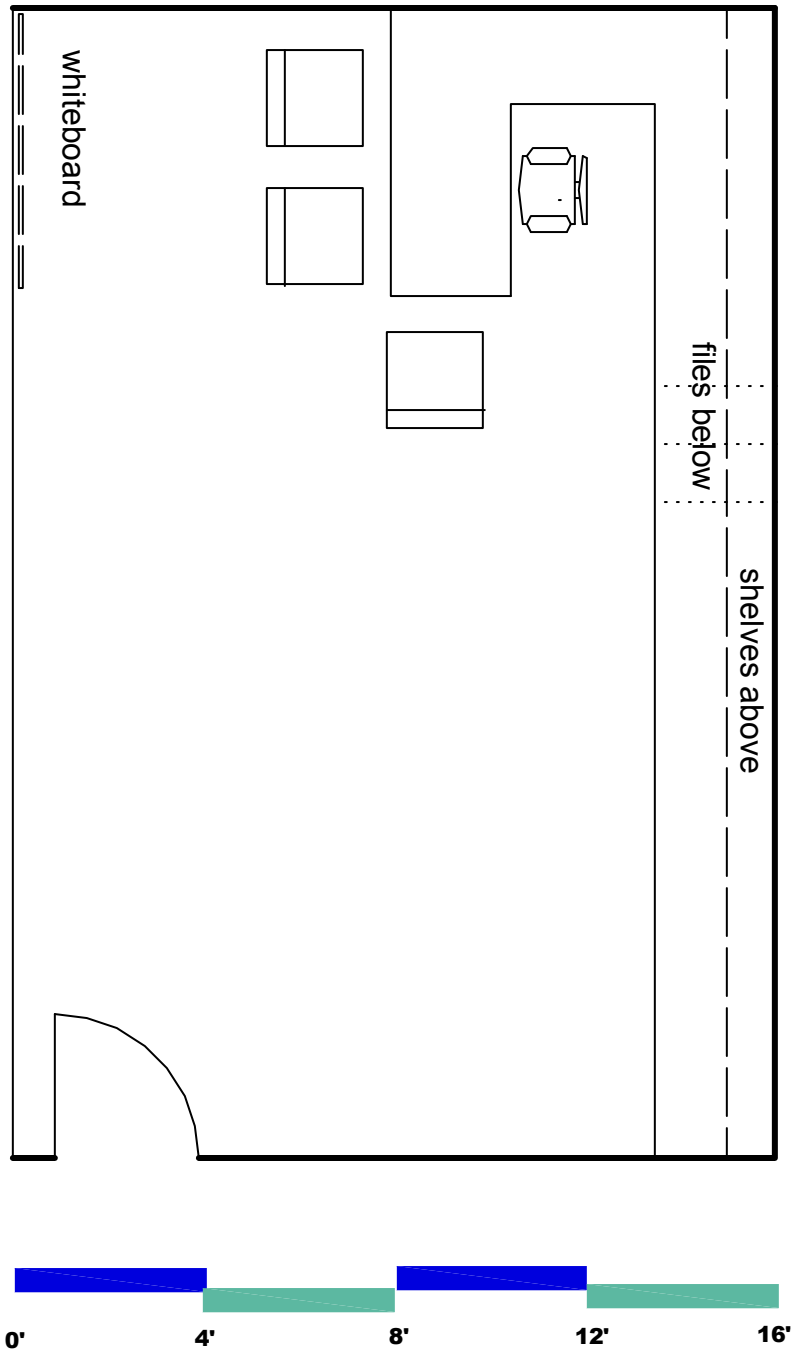
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract y	in contract n	dimensions
built-in fixtures				
1	whiteboard with frame and tray	■		48” x 36”
1	signage/rack	■		
movable furnishings				
1	waste can	■		
1	work surface	■		30’ x 60”
1	work surface	■		24” x 60”
1	work surface	■		24” x 30”
1	work surface, angled corner	■		24” x 30”
3	letter size file pedestals	■		15” x 29”
1	shelf unit, 4 shelves	■		12” x 60”
	work station coat hook, tack surface, keyboard drawer	■		
1	work chair, arms, swivel, adjustable, on casters	■		27” x 28” approx.
2	side chair, armless, upholstered	■		20” x 20” approx.
equipment				
1	desltop computer		■	
1	computer printer		■	

space notes

This space should allow students to complete confidential assessments of individuals with disabilities. Like all other spaces in the department, it must be fully accessible to those with disabilities. OTA students currently complete assessments for the Disability Resource Center (DRC).



Salt Lake Community College

summary

space type	simulated patient care area
net sf each space	600
total of this type	1
assigned users	12 students
visitors	visiting professionals patients using the OTA clinic
functions	experiential learning and skill development; clinical space for occupational therapy

location and relationships

see drawing, page

location	lowerl level
proximity	OTA/PTA Clinic reception other main lab areas
access	instructional computer lab OTA classroom
security	department control of equipment and models

finish

see also Design Guidelines

materials & finish	painted gypsum board hard surface flooring or static-free carpet depending on area simulated

electrical

plus capacity for equipment listed below

power	min. 2 double duplex front and rear, 1 double duplex each side wall
phone	Internet access
data	hook-ups for student laptops
video/tv	EDNET send and receive capability

lighting

natural light	desirable with light control for a/v
foot candles	30 general; 75 for reading tasks; lighting for EDNET projection
fixture types	direct/indirect general illumination; wash at whiteboard; avoid conflict with sight lines for projection
task lights	appropriate to environments being simulated
controls	at environment areas auto sensor

sound control

stc	45-50
full sound walls	no

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	residential-type kitchen sink, wc, lavatory, tub, and shower

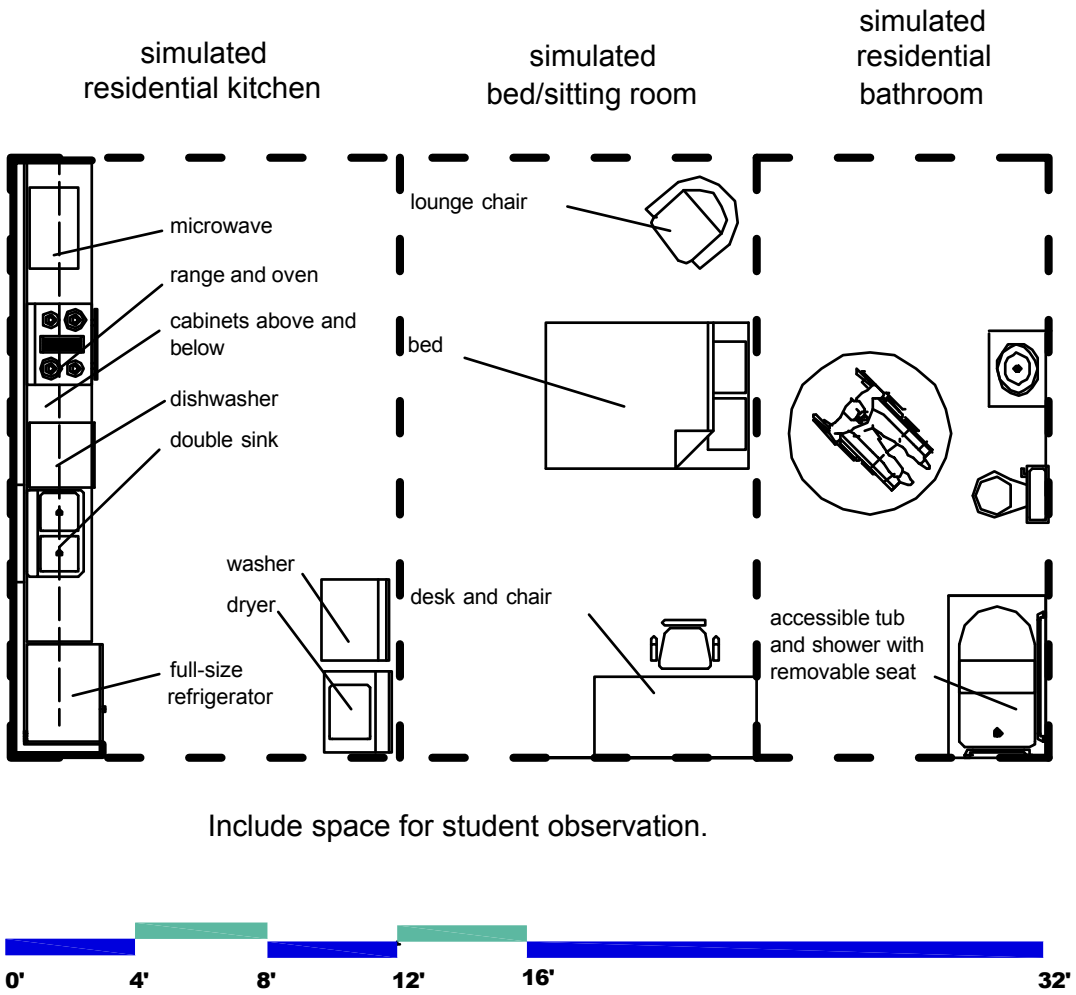
hazardous materials

	none

qty per room	item	in contract y	in contract n	dimensions
built-in fixtures				
	camera mounts			
1	accessible tub and shower			
1	lavatory			
1	water closet			
1	grab bars			
movable furnishings				
1	hospital-type bed			
1	lounge chair			
1	desk/writing area			
1	desk chair			
equipment	**all appliances full-size residential type**			
12	student laptops			
1	oven/range			full size
1	refrigerator/freezer			full size
1	microwave			
1	washer			
1	dryer			
	small kitchen and personal care appliances			

space notes

The Activities of Daily Life (ADL) lab is designed to recreate home environments in which therapist assistants can learn to help patients recover functionality. Spaces include a kitchen area with laundry facilities, a bedroom with sitting area, a bathroom area with tub, shower, and toilet. Spaces should be as realistic as possible, but be large enought to allow student groups to observe activities in process. A system that indicates wall location with partial-height barriers, alarms, or other means would be desirable to enable students to practice working within the confines of a small residential space. Thelab area should have the capacity for EDNET send/receive with cameras focused at each of the ADL environments



Include space for student observation.

main lab -- craft area

Salt Lake Community College

summary

space type	simulated patient care area
net sf each space	600
total of this type	1
assigned users	12 students
visitors	visiting professionals patients using the OTA clinic
functions	experiential learning and skill development; clinical space for occupational therapy

location and relationships

see drawing, page

location	lowerl level
proximity	OTA/PTA Clinic reception other main lab areas crafts storage area direct outdoor access desirable open assistive technology practice area
access	instructional computer lab OTA classroom
security	department control of equipment and models

finish

see also Design Guidelines

materials & finish	painted gypsum board non-porous, no-slip tile flooring durable stain- and damage-resistant surfaces for crafts activities 3' door with 2' inactive leaf for moving bulky materials

electrical

plus capacity for equipment listed below

power	min. 2 double duplex front and rear, 1 double duplex each side wall; power strips throughout work area
phone	Internet access
data	hook-ups for student laptops
video/tv	EDNET send and receive capability

lighting

natural light	desirable with light control for a/v
foot candles	30 general; 75 for reading tasks; 100-150 for crafts activities; lighting for EDNET projection
fixture types	direct/indirect general illumination; wash at whiteboard; avoid conflict with sight lines for projection
controls	auto sensor

sound control

stc	45-50
full sound walls	This area can be both noisy and dirty and should have as much separation as possible from clean and quiet spaces

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	hot and cold water floor drain

hazardous materials

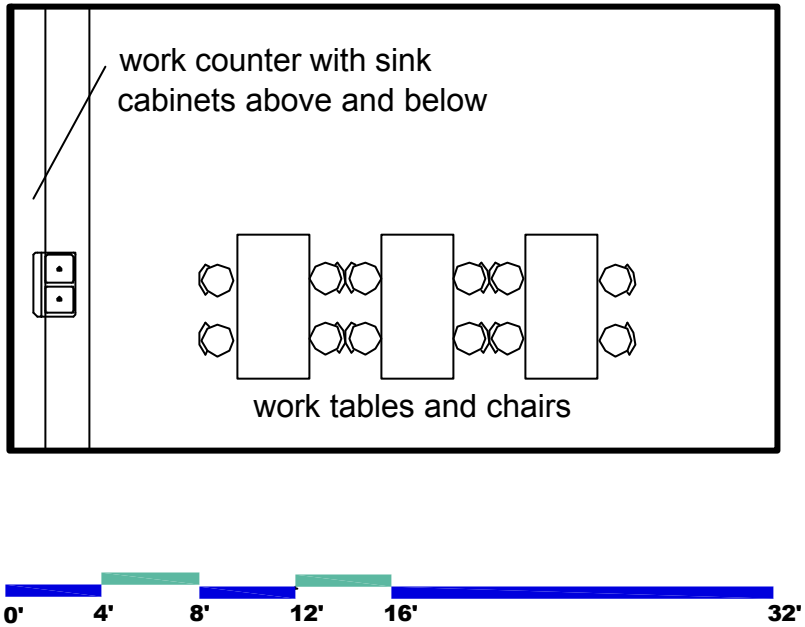
	OSHA-approved storage for paint, flammables, and shop materials

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	ceiling camera mounts			
	tack strips			
	tack boards			
	lockable storage cabinet with adj. shelves			
movable furnishings				
3	work tables, durable finish			36” x 72”
12	work chairs, armless			
equipment	**all appliances full-size residential type**			
12	student laptops			
	drying racks			
	easels			
	looms			
	woodworking equipment			
	misc. equipment for a wide range of crafts			
space notes				

The program should have the capacity for EDNET transmission from the entire lab area, with cameras focused at each of the ADL environments.

The crafts area should accommodate a range of possible activities including woodworking, art classes, ceramics, weaving, and basketry. Surfaces should be able to withstand glue, paint, stain, sawdust, and other craft materials and by-products. A kiln would be desirable.

Include open space for student observation and for looms, drying racks, and other large equipment.



main lab -- splinting area

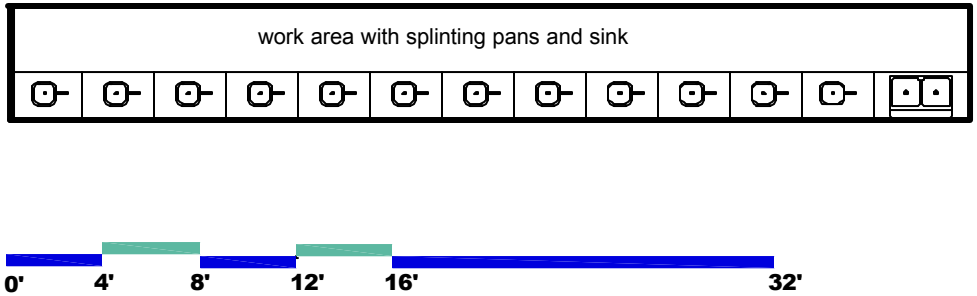
Salt Lake Community College

summary	
space type	simulated patient care area
net sf each space	200
total of this type	1
assigned users	12 students
visitors	visiting professionals patients using the OTA clinic
functions	experiential learning and skill development
location and relationships see drawing, page	
location	lowerl level
proximity	other main lab areas splinting storage area
access	instructional computer lab OTA classroom
security	department control of equipment and models
finish see also Design Guidelines	
materials & finish	painted gypsum board non-porous, no-slip tile flooring durable stain- and damage-resistant surfaces for splinting 3' door with 2' inactive leaf for moving bulky materials
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; power strips along splinting counter or double duplex at each splinting station (3' o.c.)
phone	Internet access
data	hook-ups for student laptops
video/tv	EDNET send and receive capability
lighting	
natural light	desirable with light control for a/v
foot candles	30 general; 75 for reading tasks; 100-150 for crafts activities; lighting for EDNET projection
fixture types	direct/indirect general illumination
controls	auto sensor
sound control	
stc	45-50
full sound walls	This area can be both noisy and dirty and should have as much separation as possible from clean and quiet spaces
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	hot and cold water;floor drain
hazardous materials	
	melting of thermoplastics

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	ceiling camera mounts			
	tack strips			
	tack boards			
	base cabinets with counter work surfaces and sink			40 lf
movable furnishings				
equipment				
12	student laptops			
8-12	splinting pans (sim. to electric frying pans)			
8-12	splinting irons			
space notes				

The program should have the capacity for EDNET transmission from the entire lab area, with cameras focused at each of the ADL environments.

Work counters must be fully accessible to the disabled.



main lab - sensory integration area

Salt Lake Community College

summary

space type	simulated patient care area
net sf each space	600
total of this type	1
assigned users	12 students
visitors	visiting professionals patients using the OTA clinic
functions	experiential learning and skill development

location and relationships see drawing, page

location	lowerl level
proximity	OTA/PTA Clinic reception other main lab areas storage open assistive technology practice area
access	instructional computer lab OTA classroom
security	department control of equipment and models

finish see also Design Guidelines

materials & finish	painted gypsum board 3' door with 2' inactive leaf for moving bulky materials

electrical plus capacity for equipment listed below

power	min. 2 double duplex front and rear, 1 double duplex each side wall;
phone	Internet access
data	hook-ups for student laptops
video/tv	EDNET send and receive capability

lighting

natural light	desirable with light control for a/v
foot candles	30 general; 75 for reading tasks; 100-150 for crafts activities; lighting for EDNET projection
fixture types	direct/indirect general illumination; wash at whiteboard; avoid conflict with sight lines for projection
controls	auto sensor

sound control

stc	45-50
full sound walls	no

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

none

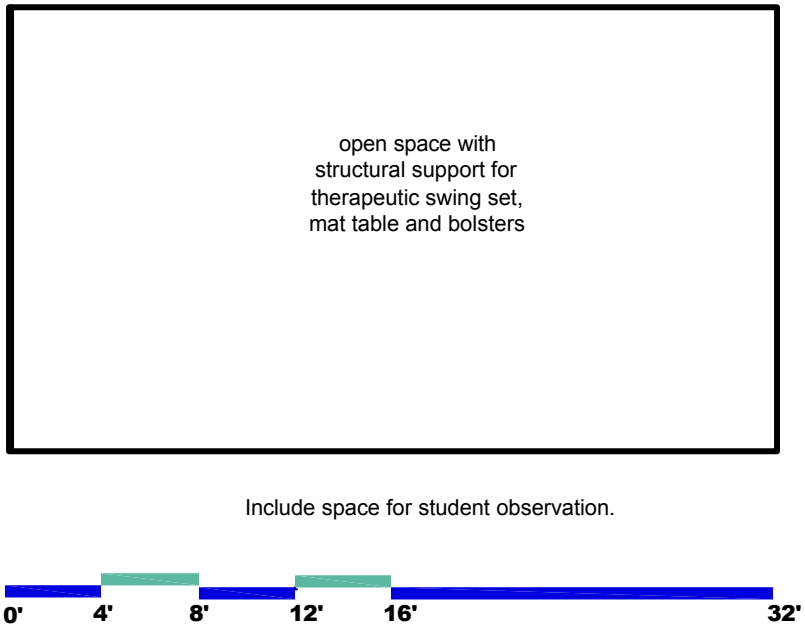
hazardous materials

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	ceiling camera mounts			
	tack strips			
	tack boards			
	therapy swing sets			
movable furnishings				
equipment				
12	student laptops			
	mat tables			
	hanging wedges and bolsters			

space notes

The program should have the capacity for EDNET transmission from the entire lab area, with cameras focused at each of the ADL environments.

Mat tables may be shared with Physical Therapist Program



main lab - outdoor work area

09 occupational therapy assistant

slcc jordan campus health sciences center

Salt Lake Community College

summary	
space type	outdoor learning area
net sf each space	600
total of this type	1
assigned users	12 students
visitors	visiting professionals patients using the OTA clinic
functions	experiential learning and skill development

location and relationships see drawing, page	
location	lowerl level
proximity	OTA/PTA Clinic reception other main lab areas storage open assistive technology practice area
access	instructional computer lab OTA classroom
security	department control of equipment

finish see also Design Guidelines	
materials & finish	non-slip surfaces

electrical plus capacity for equipment listed below	
power	covered exterior outlets
data	none
video/tv	none

lighting	
natural light	desirable with light control for a/v
foot candles	
fixture types	campus standard
controls	auto sensor

sound control	
stc	45-50
full sound walls	no

mechanical	
plumbing	
	hose bibb

hazardous materials	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	accessible raised bed planters for horticultural therapy			
	paved surface for practicing transfers and using assistive technologies			
movable furnishings				
	bench			
equipment				

space notes

Space may be used for outdoor crafts and activities as well as horticulture therapy and pet therapy. Space may also be used to practice car transfers and the use of assistive technology

10 occupational therapy assistant — office storage

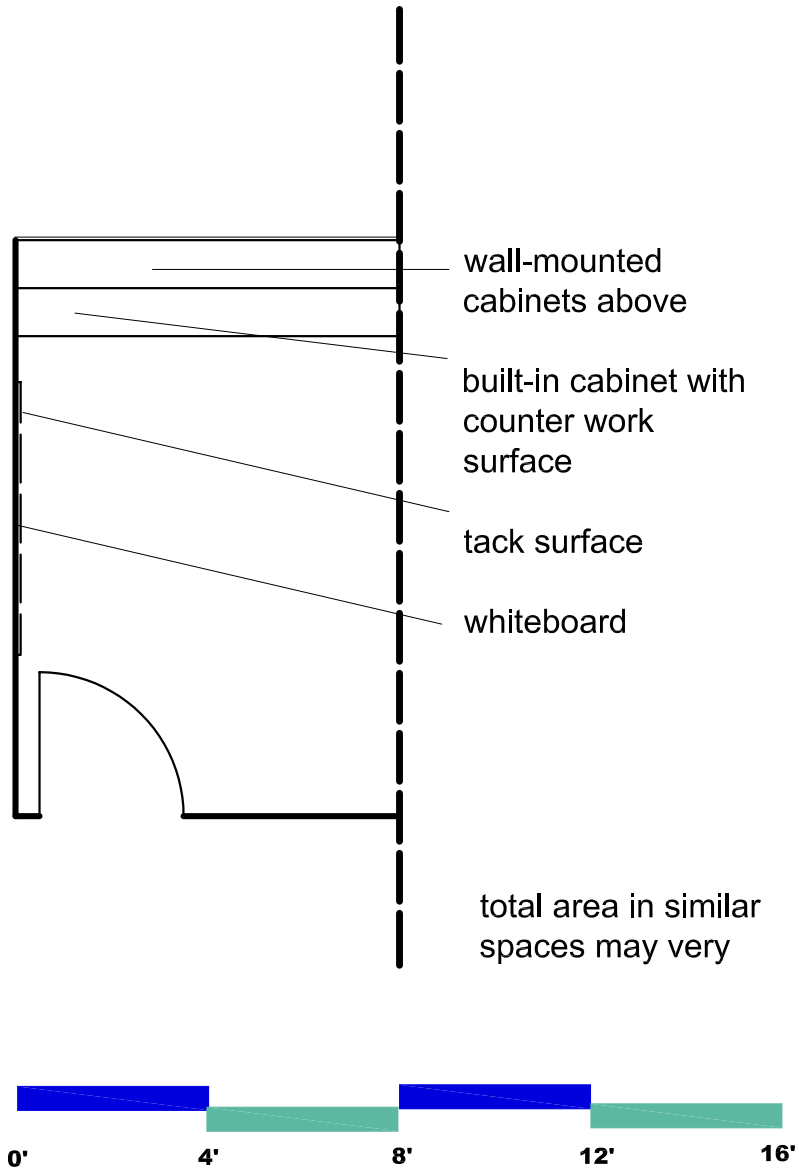
slcc jordan campus health sciences center

Salt Lake Community College

summary	
space type	department storage
net sf each space	100
total of this type	1
assigned users	0
visitors	students and instructors
functions	store program suppplies and small equipment
location and relationships	
location	lower level
proximity	OTA classroom, lab and offices
access	convenient access to central building receiving area
security	department control of equipment and experiments in process
finish see Jordan Campus Design Guidelines	
materials & finish	painted gypsum board static-free carpet or hard-surface flooring
electrical plus capacity for equipment listed below	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity for future use
data	capacity for future use
video/tv	not required

lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 10’
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 10’
1	tack board / tack surface			
10 lf	open adjustable shelving			12” x 10’
movable furnishings				
1	waste receptacle, large			
equipment				
1	photocopier			
1	fax			
space notes				



11 occupational therapy assistant

slcc jordan campus health sciences center

adaptive equipment storage

Salt Lake Community College

summary	
space type	department storage
net sf each space	150
total of this type	1
assigned users	0
visitors	students and instructors
functions	store equipment and supplies for ADL lab area

location and relationships	
location	lower level
proximity	adjacentto ADL lab may be combined with other lab storage areas
access	convenient access to central building receiving area
security	department control of equipment and experiments in process

finish see Jordan Campus Design Guidelines	
materials & finish	painted gypsum board static-free carpet or hard-surface flooring

electrical plus capacity for equipment listed below	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity for future use
data	capacity for future use
video/tv	not required

lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor

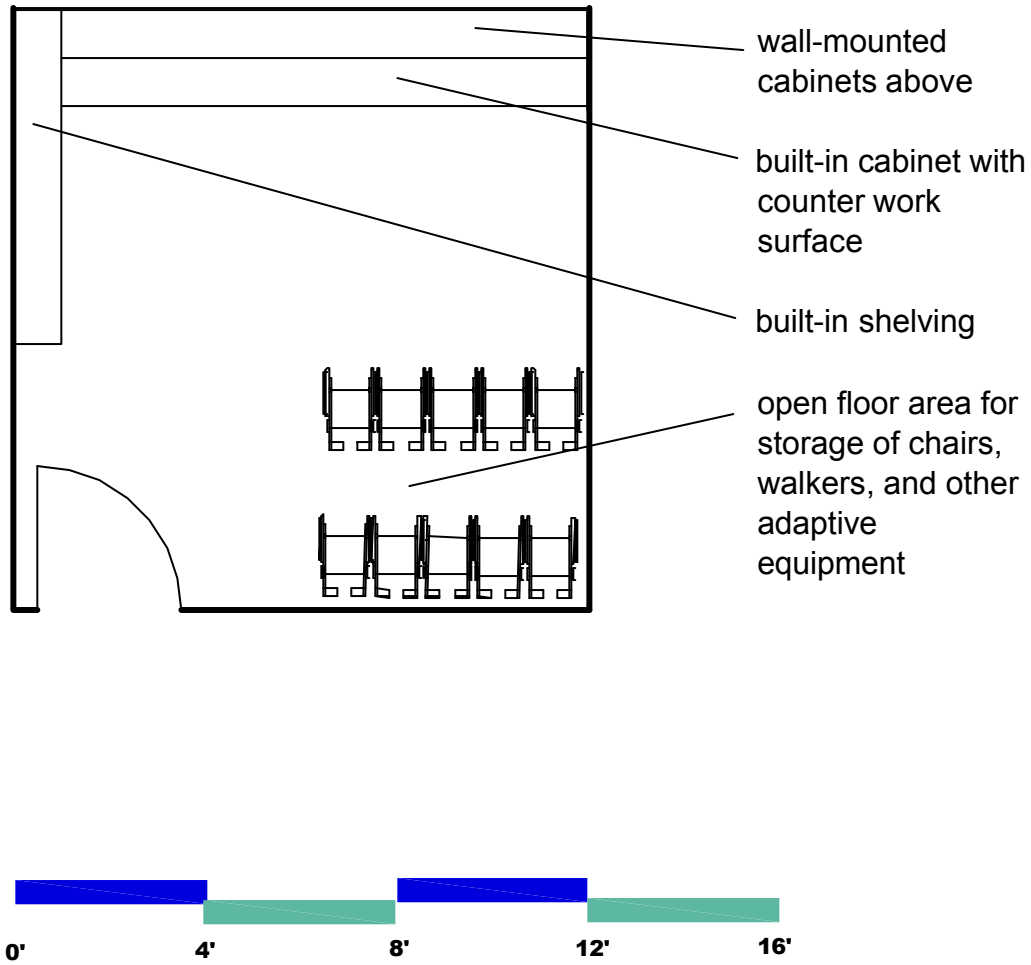
sound control	
stc	30
full sound walls	not required

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

hazardous materials

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 10’
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 10’
1	tack board / tack surface			
10 lf	open adjustable shelving			12” x 10’
movable equipment				
1	waste receptacle, large			
equipment				
2	strollers			
2	peds chairs			
1	ped feeder			
1	weight cart			
2	walkers			
2	tub benches			
10	wheelchairs			
	assessment and therapy equipment			
	ADL equipment and small appliances			
space notes				



crafts storage

Salt Lake Community College

summary

space type	enclosed storage
net sf each space	150
total of this type	1
assigned users	0
visitors	students and instructors
functions	store equipment and supplies for crafts lab area

location and relationships

location	lower level
proximity	adjacentto crafts lab may be combined with other lab storage
access	convenient access to central building receiving area
security	department control of equipment

finish

see Jordan Campus Design Guidelines

materials & finish	painted gypsum board static-free carpet or hard-surface flooring 3' door with 2' inactive leaf for moving bulky materials

electrical

plus capacity for equipment listed below

power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity for future use
data	capacity for future use
video/tv	not required

lighting

natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor

sound control

stc	30
full sound walls	not required

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

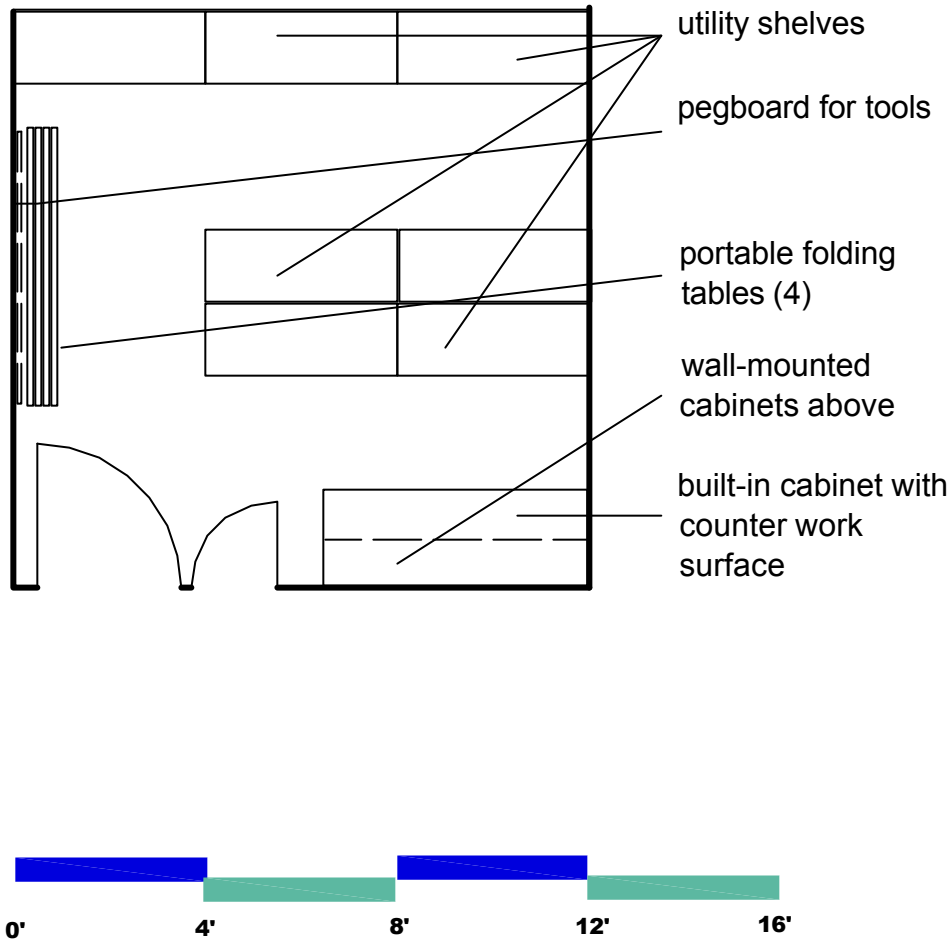
none

hazardous materials

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
6 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 6’
6 lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 6’
1	tack board / tack surface			
1	tool-hang peg-board			
movable furnishings				
1	waste receptacle, large			
7	utility shelves			18” x 48”
equipment				
	saw horses			
4	folding banquet tables			36” x 72”
	rubbermaid bins			
2	circular saws			
2	jig saws			
1	hand saw			
2	electric drills			
	sewing machines			
	looms			
	drying racks			

space notes

Space should accommodate storage of supplies and equipment for a variety of crafts projects.



splinting storage

13 occupational therapy assistant

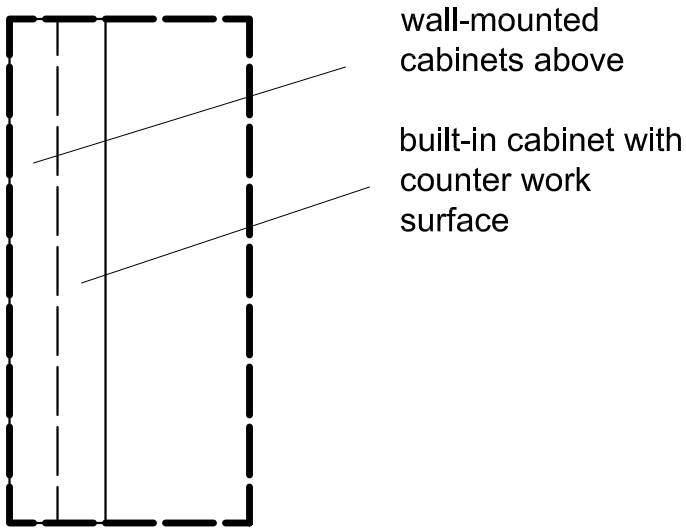
slcc jordan campus health sciences center

Salt Lake Community College

summary	
space type	department storage
net sf each space	50
total of this type	1
assigned users	0
visitors	students and instructors
functions	store equipment and supplies for splinting lab area
location and relationships	
location	lower level
proximity	adjacentto main lab areas may be combined with other lab storage areas
access	convenient access to central building receiving area
security	department control of equipment and experiments in process
finish see Jordan Campus Design Guidelines	
materials & finish	painted gypsum board static-free carpet or hard-surface flooring
electrical plus capacity for equipment listed below	
power	minimum one double duplex outlet every 12', with at least one on every wall.
phone	capacity for future use
data	capacity for future use
video/tv	not required

lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 10’
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 10’
1	waste receptacle, large			
equipment				
	splinting pans			
	splinting irons			
	splinting supplies			
space notes				



Salt Lake Community College

summary

space type	department storage
net sf each space	50
total of this type	1
assigned users	0
visitors	students and instructors
functions	store equipment and supplies for activities of daily life lab area

location and relationships

location	lower level
proximity	adjacentto main lab areas may be combined with other lab storage areas
access	convenient access to central building receiving area
security	department control of equipment

finish

see Jordan Campus Design Guidelines

materials & finish	painted gypsum board static-free carpet or hard-surface flooring

electrical

plus capacity for equipment listed below

power	minimum one double duplex outlet every 12', with at least one on every wall.
phone	capacity for future use
data	capacity for future use
video/tv	not required

lighting

natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor

sound control

stc	30
full sound walls	not required

mechanical

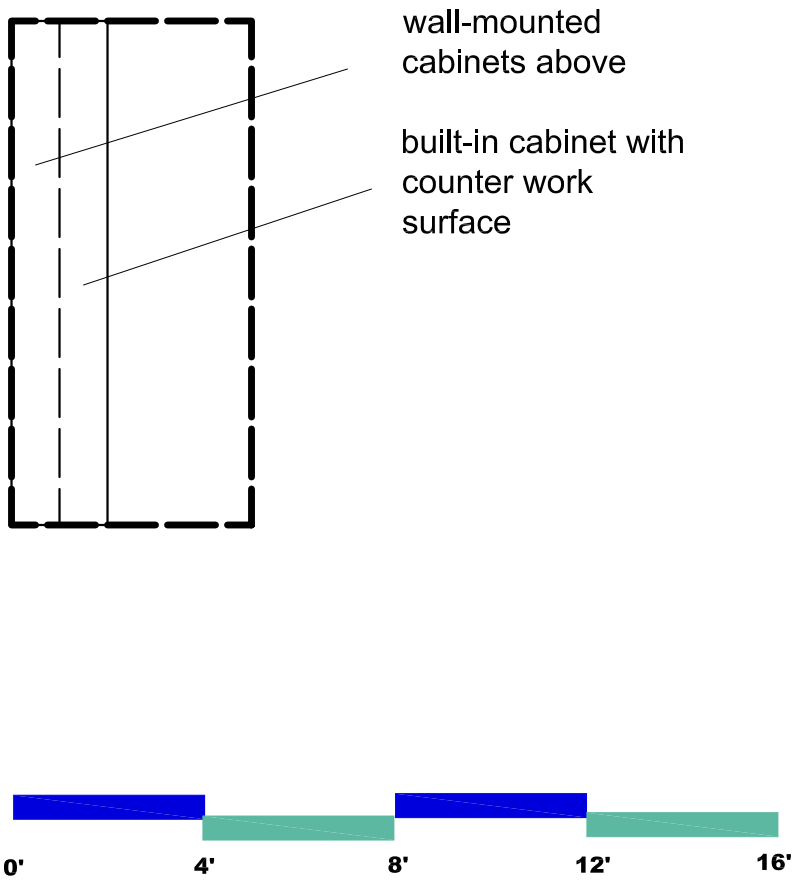
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	none

hazardous materials

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 10’
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 10’
movable equipment				
1	waste receptacle, large			
	various small appliances			
	equipment and furnishings for ADL environments			
space notes				



outdoor activity storage

15 occupational therapy assisttant

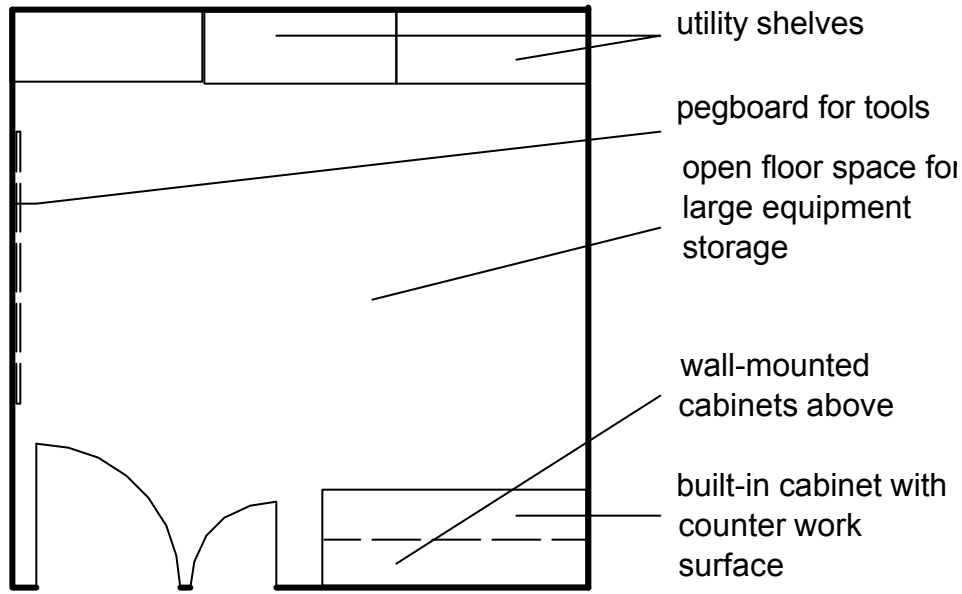
slcc jordan campus health sciences center

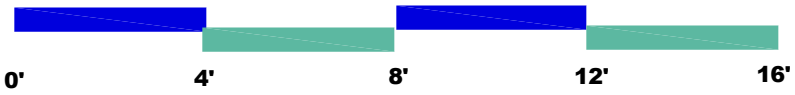
Salt Lake Community College

summary	
space type	department storage
net sf each space	100
total of this type	1
assigned users	0
visitors	students and instructors
functions	store equipment and supplies for activities of daily life lab area
location and relationships	
location	lower level
proximity	adjacentto outdoor activity areas may be combined with other lab storage areas
access	convenient access to central building receiving area
security	department control of equipment and experiments in process
finish see Jordan Campus Design Guidelines	
materials & finish	painted gypsum board hard-surface flooring
electrical plus capacity for equipment listed below	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity for future use
data	capacity for future use
video/tv	not required

lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	fluorescent
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
6 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 10’
6 lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 10’
1	pegboard for tools			
movable furnishings				
1	waste receptacle, large			
3	utility shelves			18” x 48”
equipment				
	equipment and supplies for horticultural therapy			
	equipment for outdoor activities			
space notes				





16 occupational therapy assistant faculty office
slcc jordan campus health sciences center

Salt Lake Community College

summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	2
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space

location and relationships	
location	lower level
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor

sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

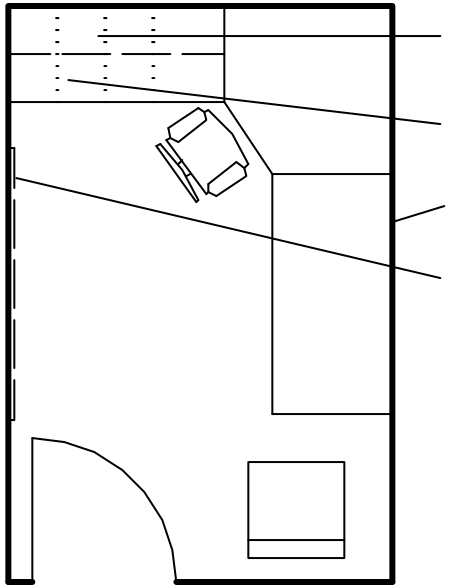
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface, angled corner			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
1	side chair, armless, upholstered			20” x 20” approx.
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.

small conference/ faculty growth

17 occupational therapy assistant

slcc jordan campus health sciences center

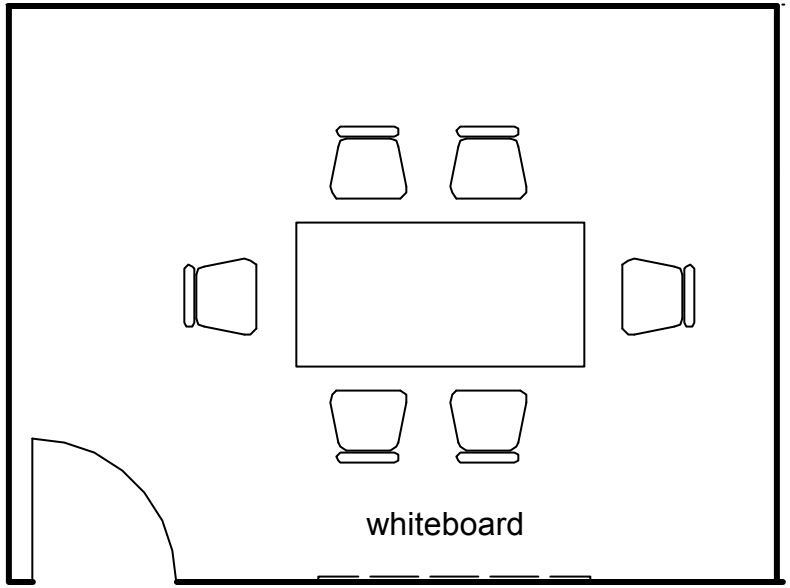
Salt Lake Community College

summary	
space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	6-8
functions	small conference area that can be converted for future faculty or adjunct work space
location and relationships	
location	lower level
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students and faculty
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each potential future work station area
data	capacity for one computer and printer at each future work station
video/tv	none
lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	capacity for future office use
controls	auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
movable furnishings				
1	waste can			
1	library reading table			36” x 72”
6	side chair, armless, upholstered			20” x 20” approx.
equipment				
	capacity for 8 laptops and for desktops at future office work stations			
	capacity for printer to serve future office uses			
	capacity for users’ personal electronic items			

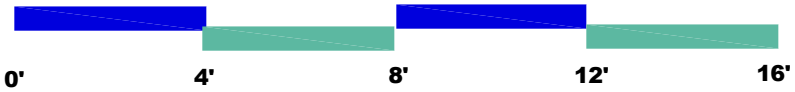
space notes

Spaces may be combined with those from other departments to create larger conference/work areas, provided that the configuration will support future conversion to faculty office or adjunct space as programs grow. This capacity will be critical to allow the building to remain functional in the future; lack of faculty space is the major spatial obstacle to program expansion.



Provide a space that can easily be converted to 2 faculty offices in the future.

Can be combined with other similar areas to create a single larger space



17 occupational therapy assistant

small conference/ faculty growth

slcc jordan campus health sciences center

Salt Lake Community College

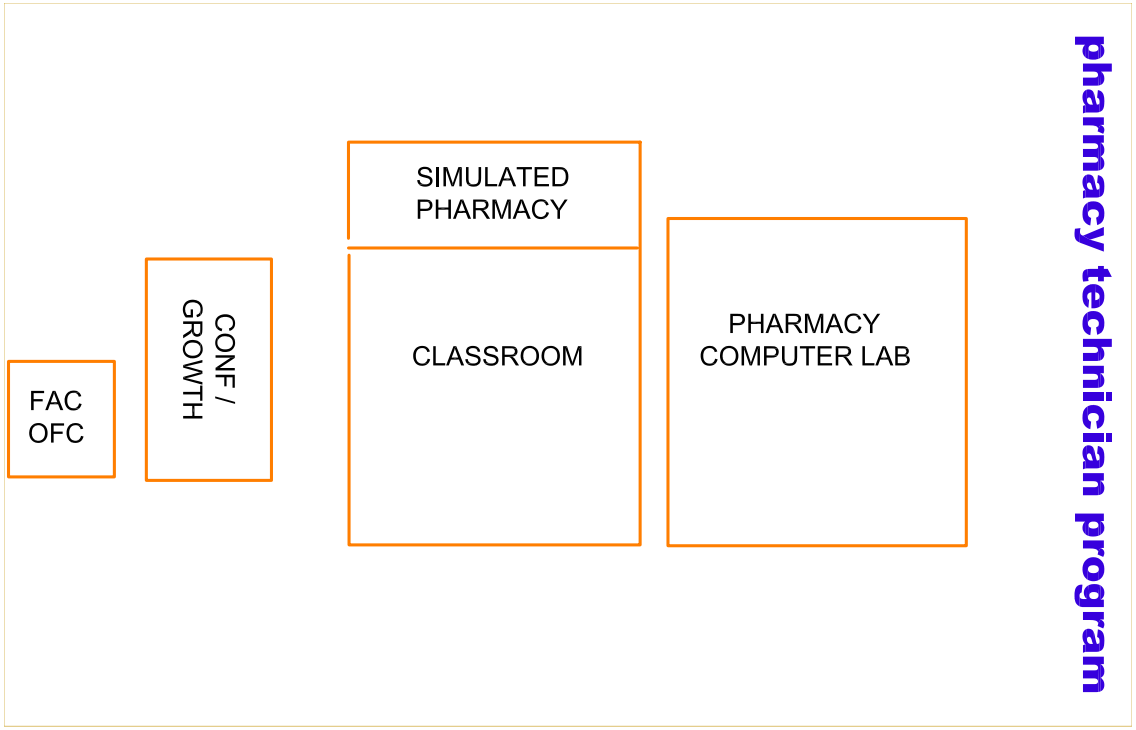
pharmacy technician
slcc jordan campus health sciences center

Salt Lake Community College

#	space	user capacity	quantity	nsf each	total nsf	total unassign-able sf	total gsf
01	Classroom	30	1	900	900		900
02	Computer Lab	30	1	1,050	1,050		1,050
03	Simulated Pharmacy		1	300	300		300
04	Faculty Office	1	1	100	100		100
05	Small Conference / Growth	1		200	200		200
TOTALS					2,550		2,550

Salt Lake Community College

pharmacy technician program

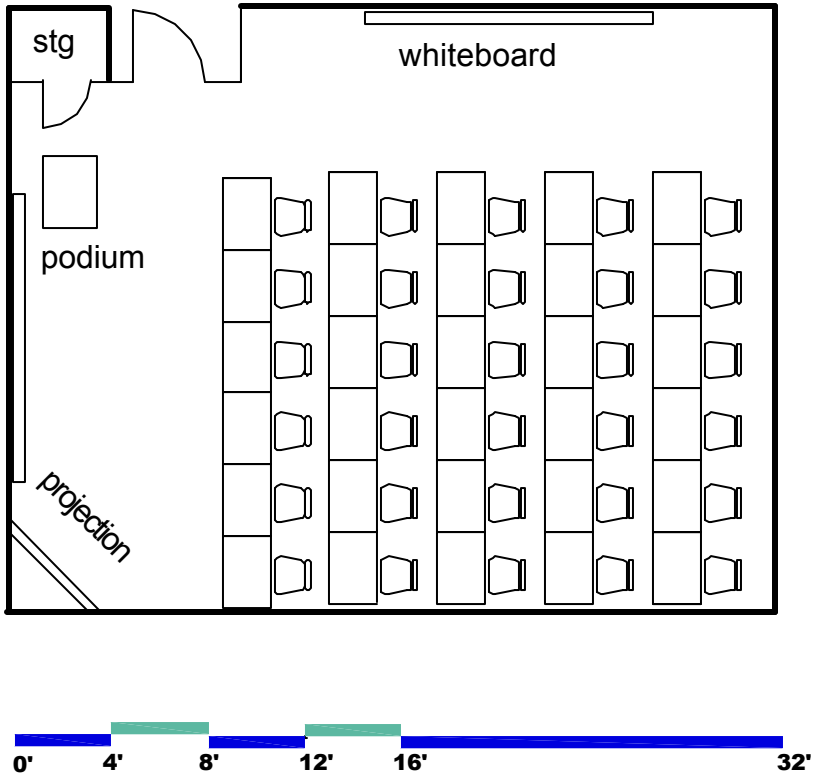


Salt Lake Community College

summary	
space type	classroom
net sf each space	900
total of this type	1
assigned users	30
visitors	visiting professionals
functions	classroom instruction
location and relationships see drawing, page	
location	main level
proximity	
access	faculty office and work areas
security	department control of equipment and models
finish see also Design Guidelines	
materials & finish	gypsum board, vinyl tile
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector; instructor podium
phone	Internet access
data	hook-ups for student laptops; instructor podium -- 3 network connections, 1-2 outlets on surface, permanent computer, input for laptop; ceiling location for projector
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector

lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard; direct light on instructor area; avoid conflict with sight lines for projection
task lights	at instructor podium
controls	at instructor podium auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
med gases	none
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor podium			
2	whiteboard			48” x 144”
1	projection screen			48” x 60”
	ceiling projection mounts			
	tack strips			
	tack boards			
movable furnishings				
30	student desks			20” x 36”
30	student chairs, armless, on casters			
2	waste cans			14”
equipment				
30	student laptops			
1	clock linked to campus master			
1	VCR			
1-2	DVD players			
1	document camera			
1	permanent in-room computer			
1	switching system			
	audio speakers			
	audio amplifier if needed			
space notes				



Salt Lake Community College

summary

space type	instructional computer lab
net sf each space	800 sf
total of this type	1
assigned users	30 students
visitors	visiting professionals
functions	computer instruction student lab when class not in session

location and relationships

location	level 3
proximity	medical assistants classrooms and labs
access	may be shared when not in use for classes
security	department control of equipment and software

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet or vinyl tile painted gypsum board

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	2 lines
data	at each student station and lab instructor area
video/tv	none

lighting

natural light	not required; provide adequate light control to prevent glare on screens if room has natural light.
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect
task lights	no
controls	automatic sensor

sound control

2tc	50
full sound walls	no

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

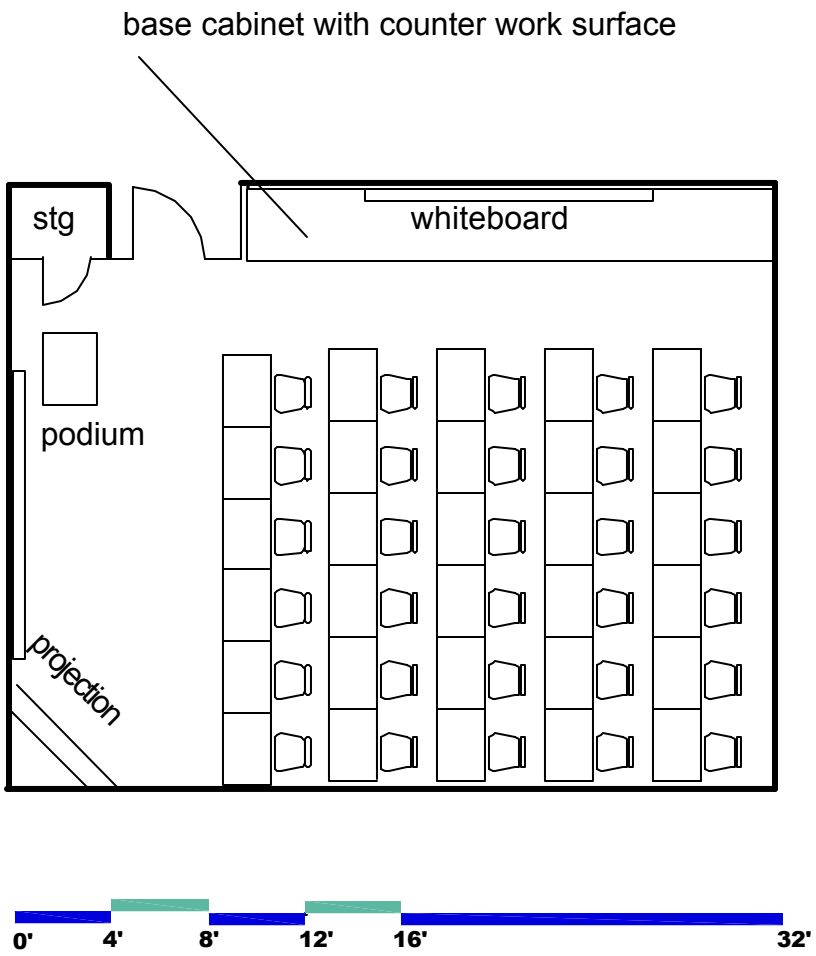
plumbing

none

hazardous materials

none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard			48” x 144”
	tack strips			
	printer work counter with base cabinet			24” x 22’
movable furnishings				
2	waste cans			
30	computer work tables			
30	work chairs, on casters, armless			
equipment				
30	desltop computers			
6	computer printers			
1	clock linked to campus master			
space notes				



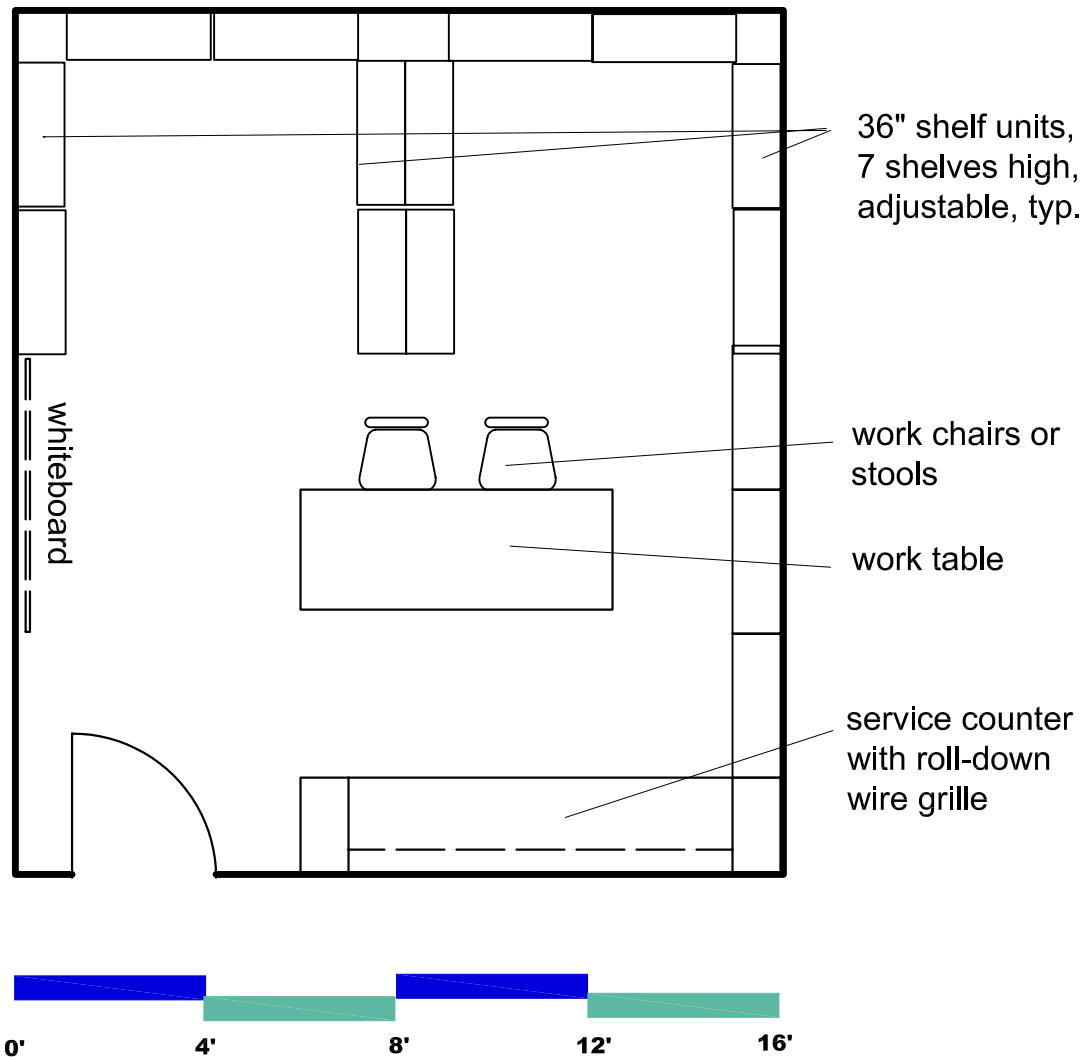
simulated pharmacy

summary	
space type	simulated practice area
net sf each space	300
total of this type	1
assigned users	4-5 students
visitors	visiting professionals
functions	experiential learning and skills development
location and relationships see drawing, page	
location	main level
proximity	adjacent to and opening onto Pharmacy Technician classroom
access	faculty office and work areas
security	department control of equipment and models
finish see also Design Guidelines	
materials & finish	gypsum board, static-free carpet
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall
phone	Internet access
data	hook-ups for student laptops
video/tv	not required

lighting	
natural light	no
foot candles	30 general; 75 for reading tasks
fixture types	direct/indirect
task lights	not required
controls	auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
med gases	none
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

Salt Lake Community College

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	service counter opening into classroom, with lockable roll-down wire grille			6-8 lf
1	whiteboard			48” x 72”
1	tack board			
movable furnishings				
15	shelving unit, 7 shelves, adjustable			12” x 36”
2	stool, adjustable, on casters			
1	work table			36” x 72”
equipment				
1	desktop computer			
1	clock linked to campus master			
	simulated drug containers			
space notes				



faculty office

Salt Lake Community College

summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	1
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space

location and relationships	
location	main level
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor

sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

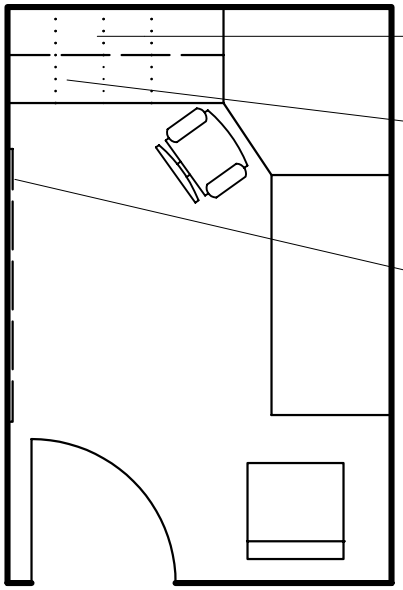
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

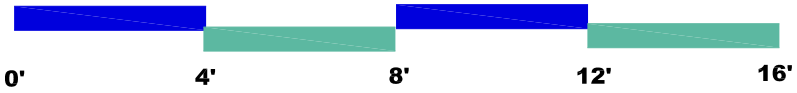
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface, angled corner			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
1	side chair, armless, upholstered			20” x 20” approx.
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



Provide flexiblity to allow faculty to select preferred configuration and rearrange in the future.



Salt Lake Community College

summary	
space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	6-8
functions	small conference area that can be converted for future faculty or adjunct work space

location and relationships	
location	main level
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students and faculty

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each potential future work station area
data	capacity for one computer and printer at each future work station
video/tv	none

lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	capacity for future office use
controls	auto sensor

sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

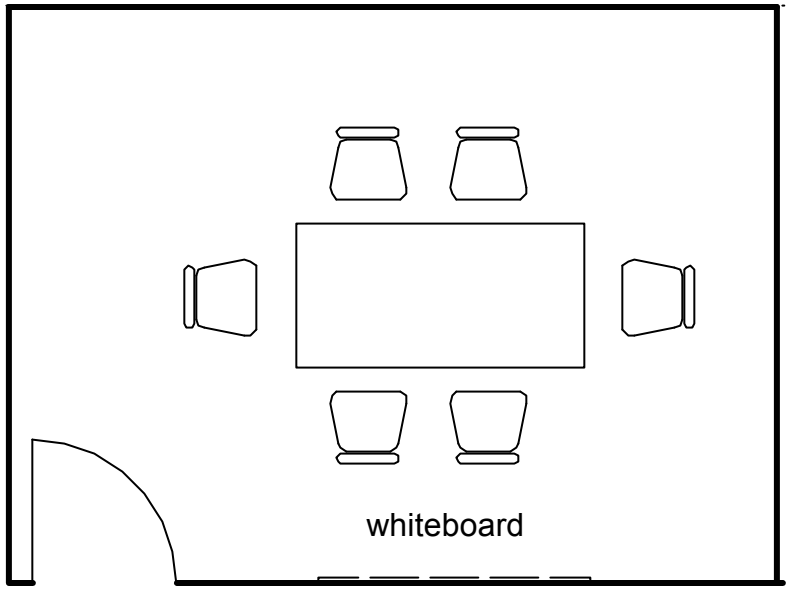
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
movable furnishings				
1	waste can			
1	library reading table			36” x 72”
6	side chair, armless, upholstered			20” x 20” approx.
equipment				
	capacity for 8 laptops and for desktops at future office work stations			
	capacity for printer to serve future office uses			
	capacity for users’ personal electronic items			

space notes

Spaces may be combined with those from other departments to create larger conference/work areas, provided that the configuration will support future conversion to faculty office or adjunct space as programs grow. This capacity will be critical to allow the building to remain functional in the future; lack of faculty space is the major spatial obstacle to program expansion.



Provide a space that can easily be converted to 2 faculty offices in the future.

Can be combined with other similar areas to create a single larger space

physical therapist assistant
slcc jordan campus health sciences center

Salt Lake Community College

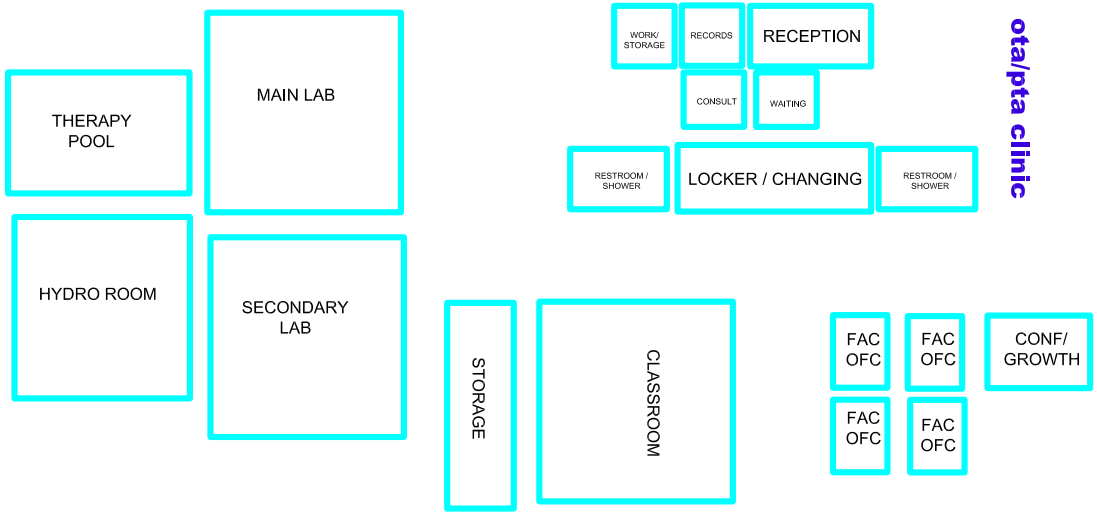
physical therapist assistant

slcc jordan campus health sciences center

#	space	user capacity	quantity	nsf each	total nsf	total unassign-able sf	total gsf
01	Classroom	36	1	1,080	1,080		1,080
02	Main Lab	36	1	1,800	1,800		1,800
03	Secondary Lab	36	1	1,000	1,000		1,000
04	Cadaver Lab	36	1	800	800		800
05	Hydro Room		1	800	800		800
06	Therapeutic Pool	8	1	600	600		600
07	Storage		1	300	300		300
08	Faculty Office	4	4	100	400		400
09	Small Conference / Faculty Growth		1	200	200		200
TOTALS					6,980		6,980

Salt Lake Community College

physical therapist assistant program



ota/pta clinic

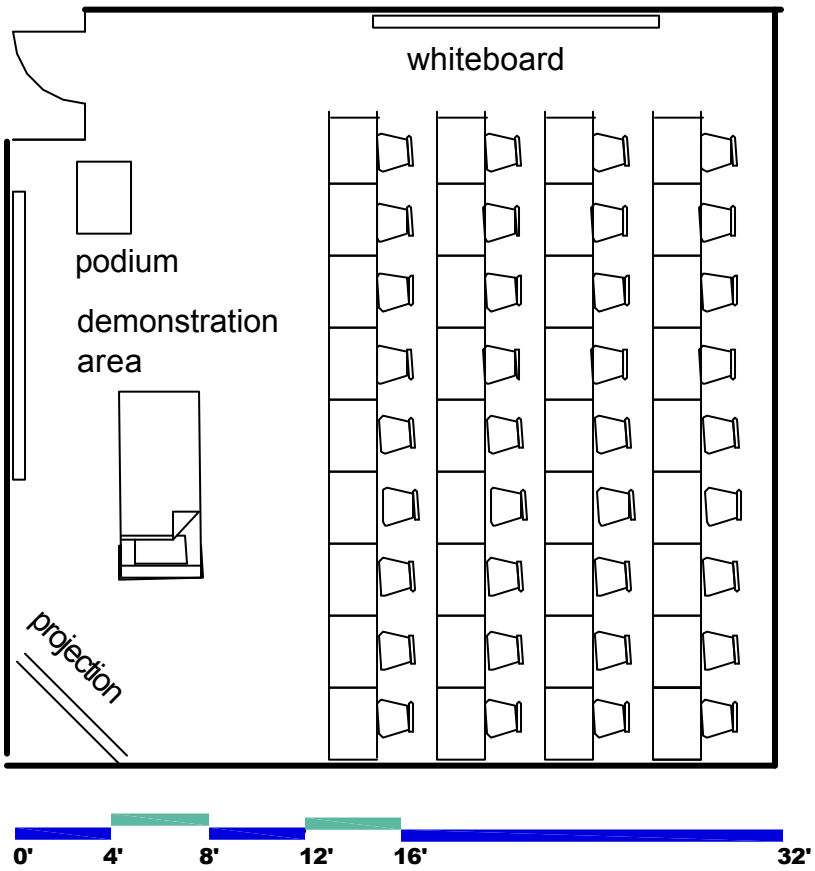
physical therapist assistant classroom

slcc jordan campus health sciences center

Salt Lake Community College

summary	
space type	classroom
net sf each space	1,080
total of this type	1
assigned users	36
visitors	visiting professionals
functions	classroom instruction
location and relationships see drawing, page	
location	lower level
proximity	lab and therapy areas
access	clinic, OTA
security	department control of equipment and models
finish see also Design Guidelines	
materials & finish	gypsum board, vinyl tile
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall
phone	Internet access
data	hook-ups for student laptops; instructor console
video/tv	ceiling mounted projection
lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	low-glare T-8, electronic ballast
task lights	at instructor console
vcp	70
controls	at instructor console
sound control	
nc/rc	30
full sound walls	no
mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
fume hoods	none
med gases	none
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	may be present in demonstrations

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor console			
4	whiteboards			48” x 144”
1	projection screen			48” x 60”
	ceiling projection mounts			
	tack strips			
	tack boards			
movable furnishings				
40	student desks			20” x 36”
40	student chairs, armless, on casters			
2	waste cans			14”
equipment				
40	student laptops			
1	clock linked to campus master			
1	data, tv, and video projectors			
	capacity for wireless microphones, a/v equipment, pencil sharpener			
	demonstration equipment at instructor console			
space notes				



Salt Lake Community College

summary	
space type	simulated patient care area
net sf each space	1,800
total of this type	1
assigned users	36
visitors	visiting professionals
functions	experiential learning and skill development
location and relationships see drawing, page	
location	lower level
proximity	PTA classroom, secondary lap, hydrotherapy, pool room, OTA/PTA clinic reception
access	storage, faculty office and work areas
security	department control of equipment and models
finish see also Design Guidelines	
materials & finish	gypsum board, static-free carpet 3' door with 2' inactive leaf for moving bulky equipment
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; all outlets double duplex; wall outlets placed high; electrical raceways in foor
phone	Internet access
data	hook-ups for student laptops;
video/tv	ceiling mounted camera EDNET send and receive capacity
lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks; lighting for EDNET projection
fixture types	direct/indirect general illumina-tion; wash at whiteboard
controls	auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	sink with tall gooseneck faucet; casting drum

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboards			48” x 72”
	ceiling camera mounts			
	tack strips			
	tack boards			
	wall-mounted cabinets with adj. shelves			
	base cabinets with counter work surface and sink w/ tall gooseneck faucet and casting drum			
2	wall-mounted pull-down mat			48” x 84” 20” deep
1	wall-mounted folding parallel bars			
1	wall-mounted mirror			
1	wall-mounted pulley system			
	ceiiling hooks for swings			
1	wall rack for bolsters			
1	floor mat rack			
1	stall bars			36” wide, 96” high
1	BAPS			
movable furnishings				
2	mat table			48” x 84”
6	treatment plinths			
1	Adapta hi/low table			
1	traction table TXE-1			
1	tilt tab			
1	portable stairs			
4	mirrors, on casters			
1	equipment rack, portable			28” x 28”; 66” high
1	multistation exercise gym			large footprint
1	folding Bow Flex			
8	wooden patient chjairs with arms, upholstered, no metal parts			
1	Dynatronics infrared			
equipment	**see department equipment list for complete details**			
36	student laptops			
1	clock linked to campus master			
1	hyrdrocollator			
1	colpac machine			
1	fluidotherapy			
6	paraffin bath			
1	isokinetic machine with computer			
1	orthotron			4’ x 8’
1	shoulder wheel			
1	treadmill, flex deck			
2	ergometer			
1	pelvic mount skeleton			
8	footstools			
	steel cart			
	recumbent bike			
	wheelchair			
8	automatic blood pressure unit			

8	stethoscopes			
6	TENS			
6	EMS			
1	roll-up training grid			
	various swings,weights, forms, wedges, bolsters, dumbells, balls, and other exercise equipment			

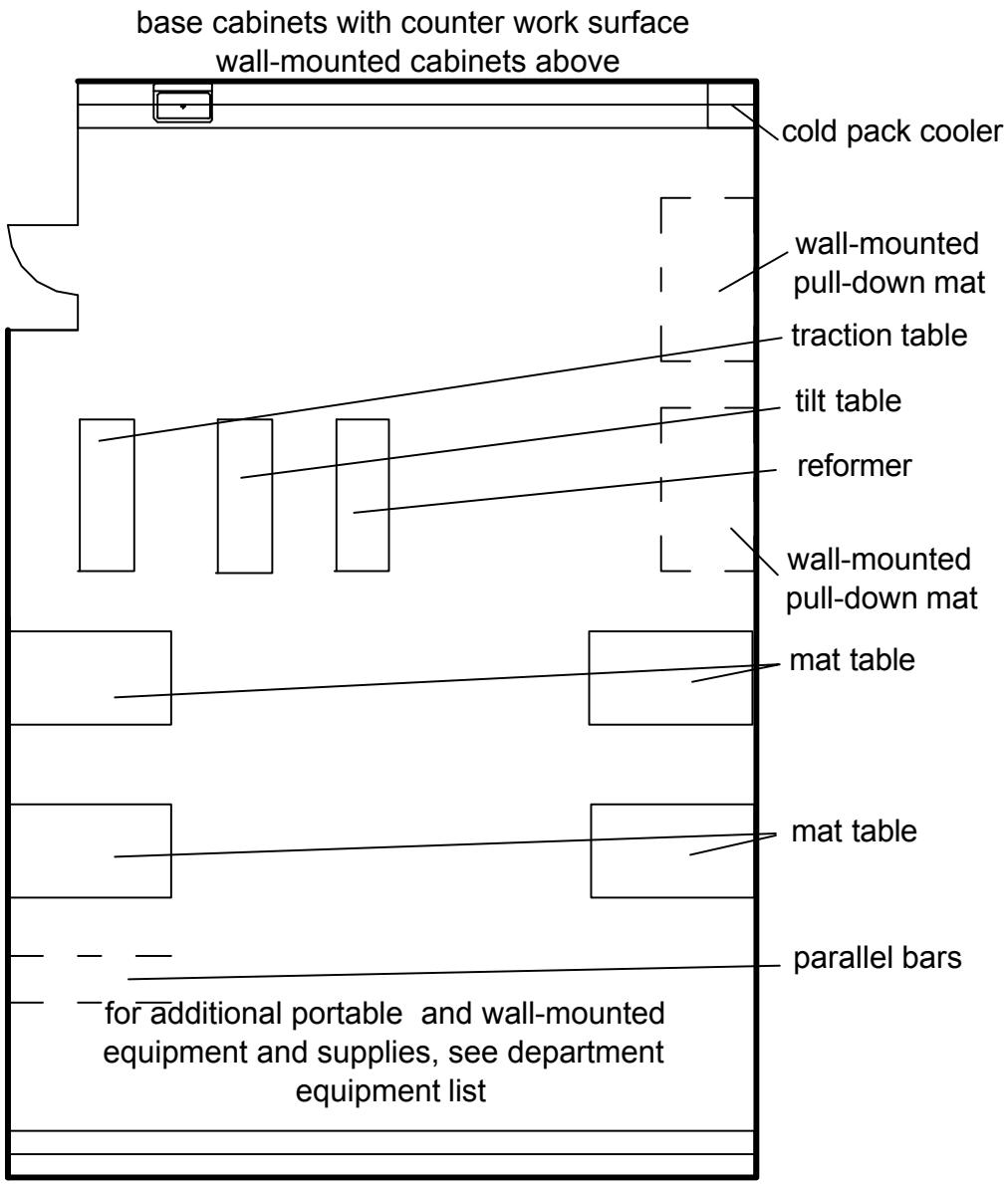
space notes

Walls and ceilings will rerquire structural reinforcement to support heavy equipment. Ceiling hooks capable of supporting 300 pounds are required; walls must support pull-down mat tables.

The lab should have open floor area where separate training areas can be set up. One private treatment booth should be provided.

Minimum ceiling height 9'-0"; 10'-0" preferable for equipment clearance.

Salt Lake Community College


base cabinets with counter work surface
wall-mounted cabinets above
cold pack cooler
wall-mounted
pull-down mat
traction table
tilt table
reformer
wall-mounted
pull-down mat
mat table
mat table
parallel bars
for additional portable and wall-mounted
equipment and supplies, see department
equipment list

Salt Lake Community College

summary

space type	simulated patient care area
net sf each space	1,000
total of this type	1
assigned users	36
visitors	visiting professionals
functions	experiential learning and skill development

location and relationships

see drawing, page

location	lower level
proximity	PTA classroom, secondary lap, hydrotherapy, pool room, OTA/PTA clinic reception
access	storage, faculty office and work areas
security	department control of equipment and models

finish

see also Design Guidelines

materials & finish	gypsum board, static-free carpet 3' door with 2' inactive leaf for moving bulky equipment

electrical

plus capacity for equipment listed below

power	min. 2 double duplex front and rear, 1 double duplex each side wall; all outlets double duplex; 4-plex outlets at floor, 4' height, and above counter
phone	Internet access
data	hook-ups for student laptops
video/tv	capacity for future use

lighting

natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard
controls	auto sensor

sound control

stc	45-50
full sound walls	no

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	sink with hot water, tall gooseneck faucet; casting drum

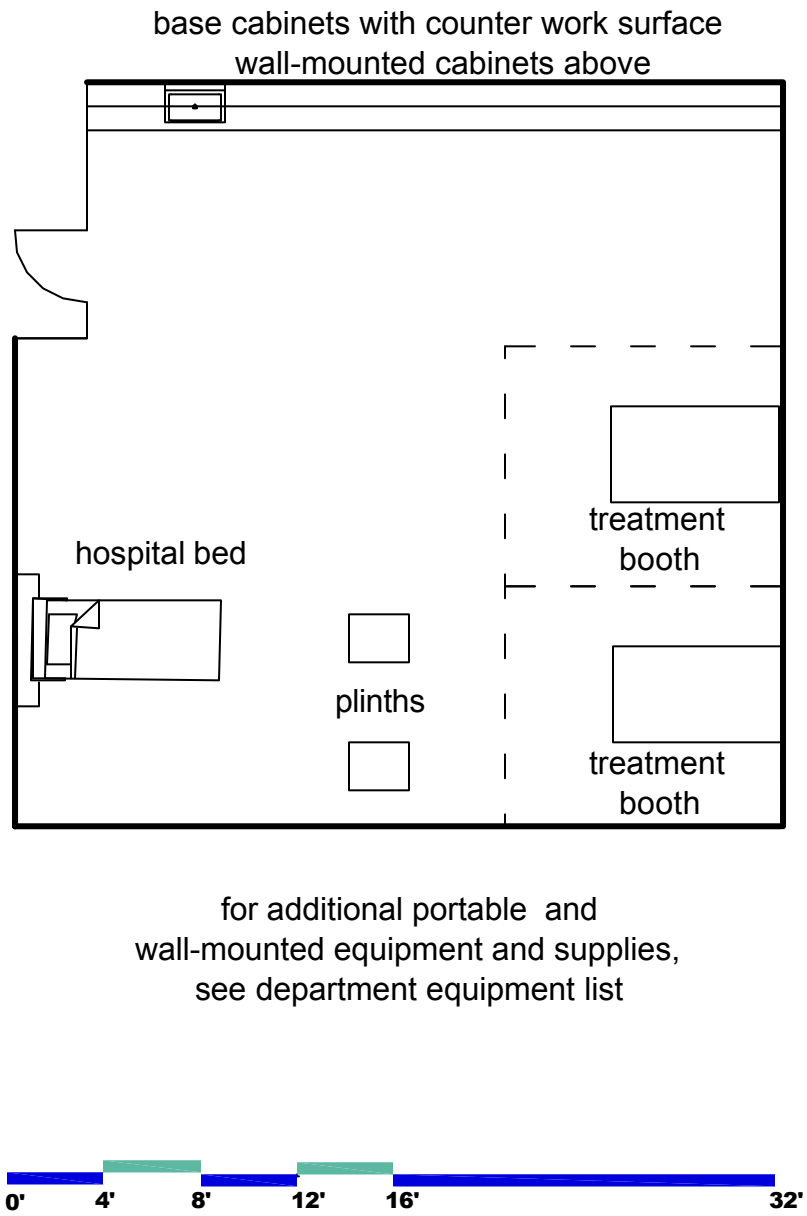
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboards			48” x 72”
	tack strips			
	tack boards			
	wall-mounted cabinets with adj. shelves			
	base cabinets with counter work surface and sink w/ tall gooseneck faucet and casting drum, drawers below			
	wall or ceiling mount posture evaluation kit			25” x 38” x 12”
2	treatment booths with curtains			
	ceiling hooks for swings			
movable furnishings				
	treatment plinth			24” x 26” x 29”
8	stools, adjustable, on casters			
1	scale, BMI, water, computerized			
2	mirror, on casters			28” wide, 75” high
1	hospital bed			
equipment	**see department equipment list for complete details**			
36	student laptops			
1	Adapta electric hi-low table			
1	skeleton, pelvic mounted			
6	automatic blood pressure cuffs			
1	TV/VCR/DVD, wall mounted			
1	digital camcorder with tripod			
1	x-ray viewer / illuminator			16” x 21”
1	biodex balance master			
1	mannikin			
1	gait grid			
2	stethoscope			
6	manual muscle tester			

space notes

Walls and ceilings will rerquire structural reinforcement to support heavy equipment. Ceiling hooks capable of supporting 300 pounds are required; walls must support pull-down mat tables.

The lab should have open floor area where spearate training areas can be set up. One private treatment booth should be provided.

Minimum ceiling height 9’-0”; 10’-0” preferable for equipment clearance.



for additional portable and
wall-mounted equipment and supplies,
see department equipment list

cadaver lab

Salt Lake Community College

summary

space type	class laboratory
net sf each space	784
total of this type	1
assigned users	PTA, OTA, and Dental Hygiene students
visitors	visiting professionals
functions	experiential learning and skill development

location and relationships

see drawing, page

location	lower level
proximity	adjacent to lab areas
access	storage, faculty office and work areas; PTA classroom elevator and service entry
security	wireless keypad

finish

see also Design Guidelines

materials & finish	gypsum board, non-slip hard-surface flooring 3' door with 2' inactive leaf for moving bulky equipment

electrical

plus capacity for equipment listed below

power	min. 2 double duplex front and rear, 1 double duplex each side wall; all outlets double duplex; 4-plex outlets at floor, 4' height, and above counter
phone	capacity
data	hook-ups for student laptops
video/tv	capacity for future use

lighting

natural light	no
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard
controls	auto sensor

sound control

stc	45-50
full sound walls	no

mechanical

outdoor air min cfm/person	18-20 air changes per hour for cadaver use
air circulation min cfm/person	20
100% exhaust	yes
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

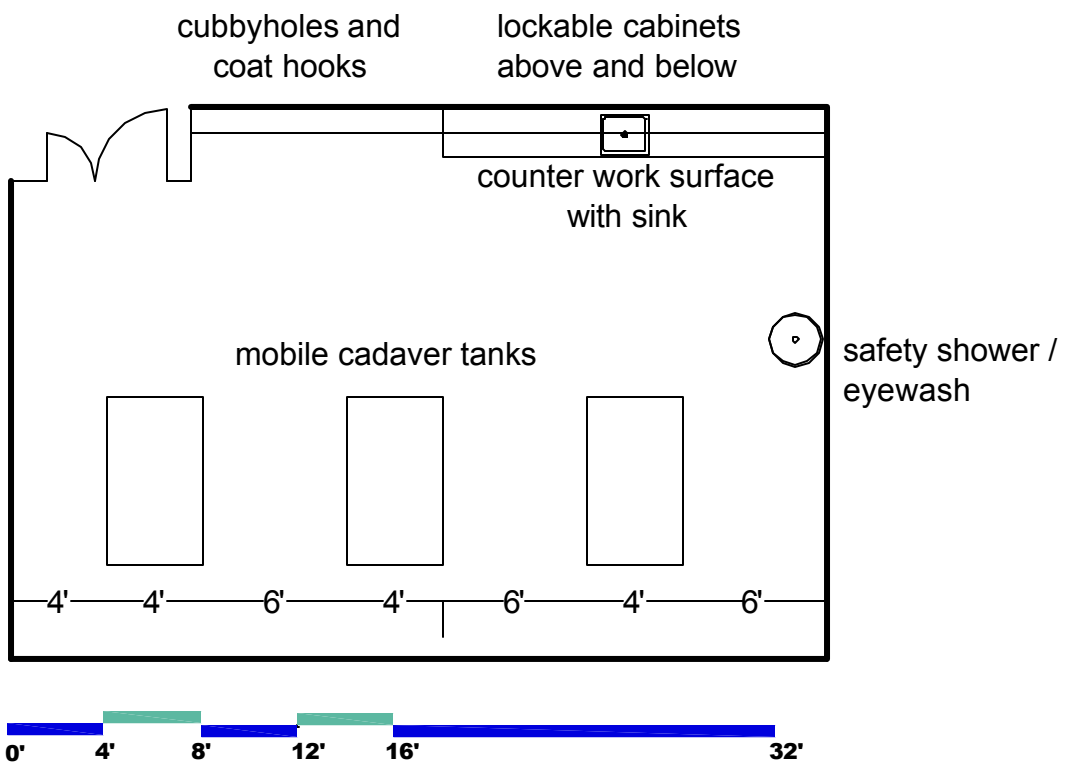
	floor drain sink with gooseneck faucet

hazardous materials

	cadavers are preserved in formaldehyde

qty per room	item	in contract y	in contract n	dimensions
built-in fixtures				
	tack boards			
1	wall-mounted cabinets with adj. shelves, lockable			12” x 16’
1	deep sink with gooseneck faucet			
1	base cabinets, lockable, with counter work surface			24” x 16’
36	storage cubbyholes			12” x 12”
36	coat hooks			
movable furnishings				
1	waste receptacle			
1	biohazard waste			
equipment	**see department equipment list for complete details**			
3	cadaver tanks, mobile			
1	OSHA approved safety shower and eyewash			
space notes				

Cadavers may require special provisions for waste storage; some donors require that all parts be stored and returned after dissection. See appendix for additional Cadaver Lab Guidelines.



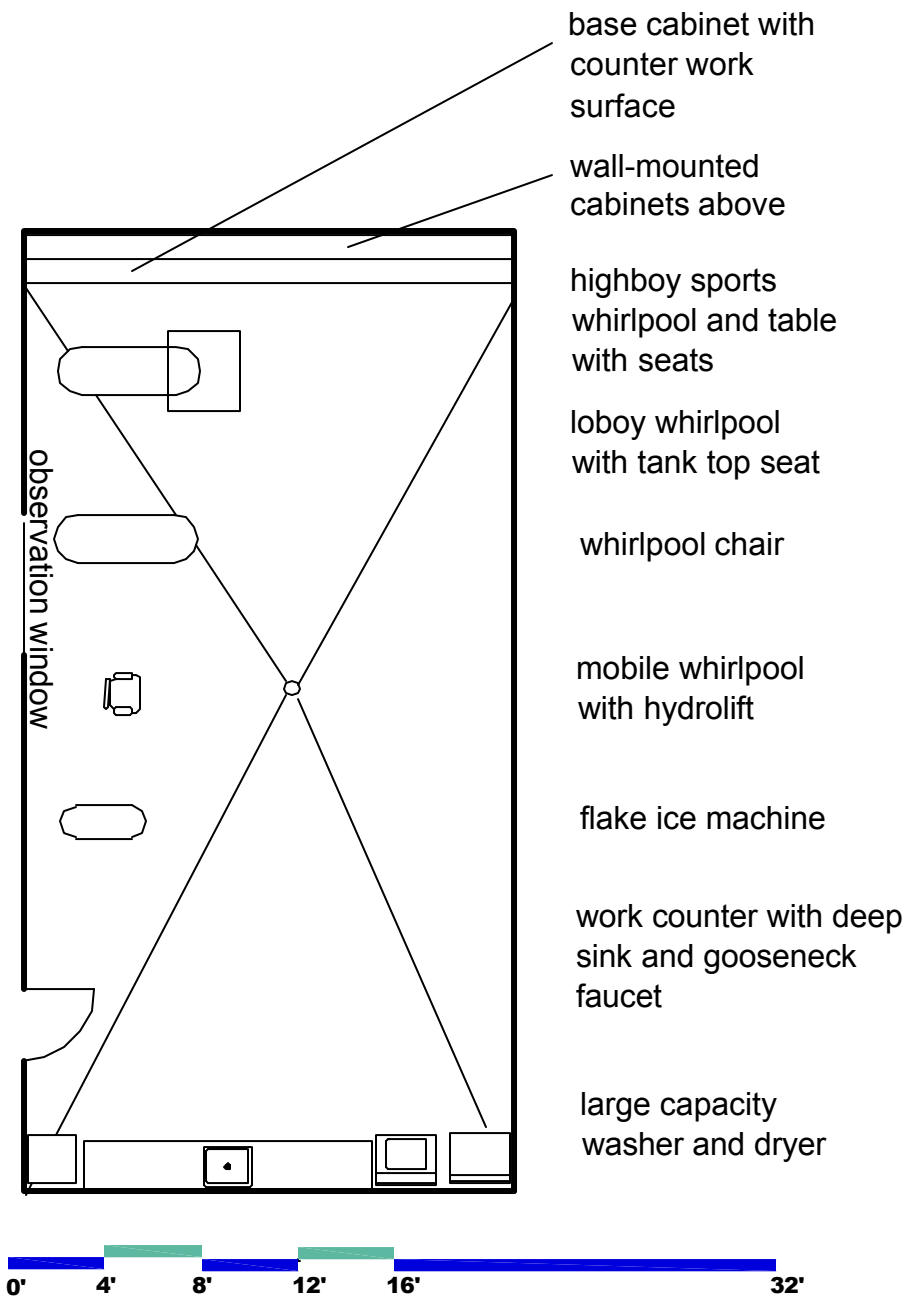
hydro room

Salt Lake Community College

summary	
space type	simulated patient care area
net sf each space	800
total of this type	1
assigned users	8
visitors	visiting professionals
functions	experiential learning and skill development
location and relationships see drawing, page	
location	lower level
proximity	opening off of lab areas; observation from main lab area
access	storage, faculty office and work areas; PTA classroom may be shared with OTA
security	department control of equipment and models
finish see also Design Guidelines	
materials & finish	gypsum board, non-slip hard-surface flooring 3' door with 2' inactive leaf for moving bulky equipment
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; all outlets double duplex; 4-plex outlets at floor, 4' height, and above counter
phone	capacity
data	hook-ups for student laptops
video/tv	capacity for future use
lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard
controls	auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes; dryer venting
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	therapy tubs with automatic mixers; washer/dryer; wall-mounted water mixer; automatic spray cleaner hose; deep sink with gooseneck faucet; floor drain

qty per room	item	in contract y	in contract n	dimensions
built-in fixtures				
	tack boards			
	wall-mounted cabinets with adj. shelves			
	deep sink with gooseneck faucet			
	observation windows, one wall			
movable furnishings				
1	waste receptacle			
equipment	**see department equipment list for complete details**			
1	flake ice machine			24” x 24’ x 39”
1	hi/low sports whirlpool on wheels			48” x 20” x 25”
1	whirlpool table with seats			
1	lo-boy whirlpool with tank top seat			52” x 24” x 18”
1	mobile whirlpool with hydrolift			
1	adj. suspension seat			
1	adj. whirlpool chair			
1	large capacity washer			
1	large capacity dryer			

space notes

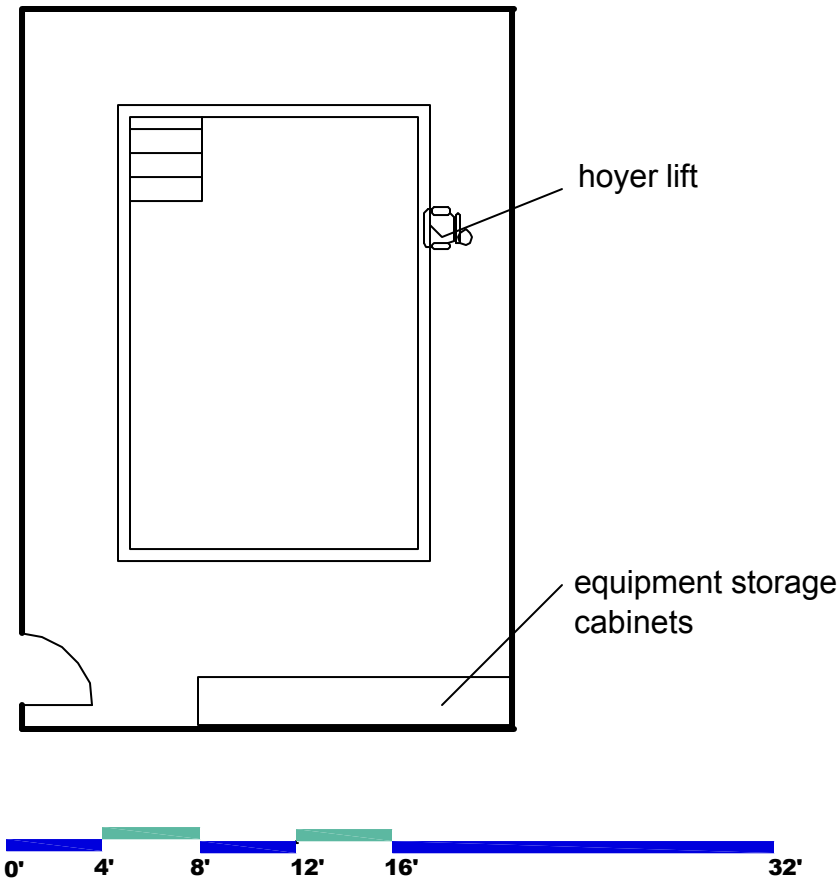


Salt Lake Community College

summary	
space type	simulated patient care area
net sf each space	600
total of this type	1
assigned users	8-15
visitors	visiting professionals
functions	experiential learning and skill development; treatment for OTA/PTA cliniic patients
location and relationships see drawing, page	
location	lower level
proximity	adjacent ot hydrotherapy; opening off of lab areas; observation from main lab area
access	storage, faculty office and work areas; PTA classroom may be shared with OTA
security	department control of equipment and models
finish see also Design Guidelines	
materials & finish	gypsum board, non-slip hard-surface flooring 3' door with 2' inactive leaf for moving bulky equipment
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; all outlets double duplex; 4-plex outlets at floor, 4' height, and above counter
phone	capacity
data	hook-ups for student laptops
video/tv	capacity for future use
lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumina-tion; wash at whiteboard
controls	auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes; dryer venting
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	therapeutic pool for 15 patients floor drain

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	15 person therapeutic pool			a commercial units for 8 patients occupies 250 sf or less
1	access ramps			
10 lf	wall-mounted cabinets			
movable furnishings				
1	waste receptacle			
equipment	**see department equipment list for complete details**			
1	Hoyer lift			
space notes				

Graduates with expertise in aquatic therapy are in high demand.



Salt Lake Community College

summary	
space type	department storage
net sf each space	300
total of this type	1
assigned users	0
visitors	students and instructors
functions	store program suppplies and small equipment

location and relationships	
location	lower level
proximity	between the two PTA labs
access	convenient access from central building receiving area; may be shared with OTA
security	department control of equipment and experiments in process

finish see Jordan Campus Design Guidelines	
materials & finish	painted gypsum board hard-surface flooring 3' door with 2' inactive leaf for movement of bulky items

electrical plus capacity for equipment listed below	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity for future use
data	capacity for future use
video/tv	not required

lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor

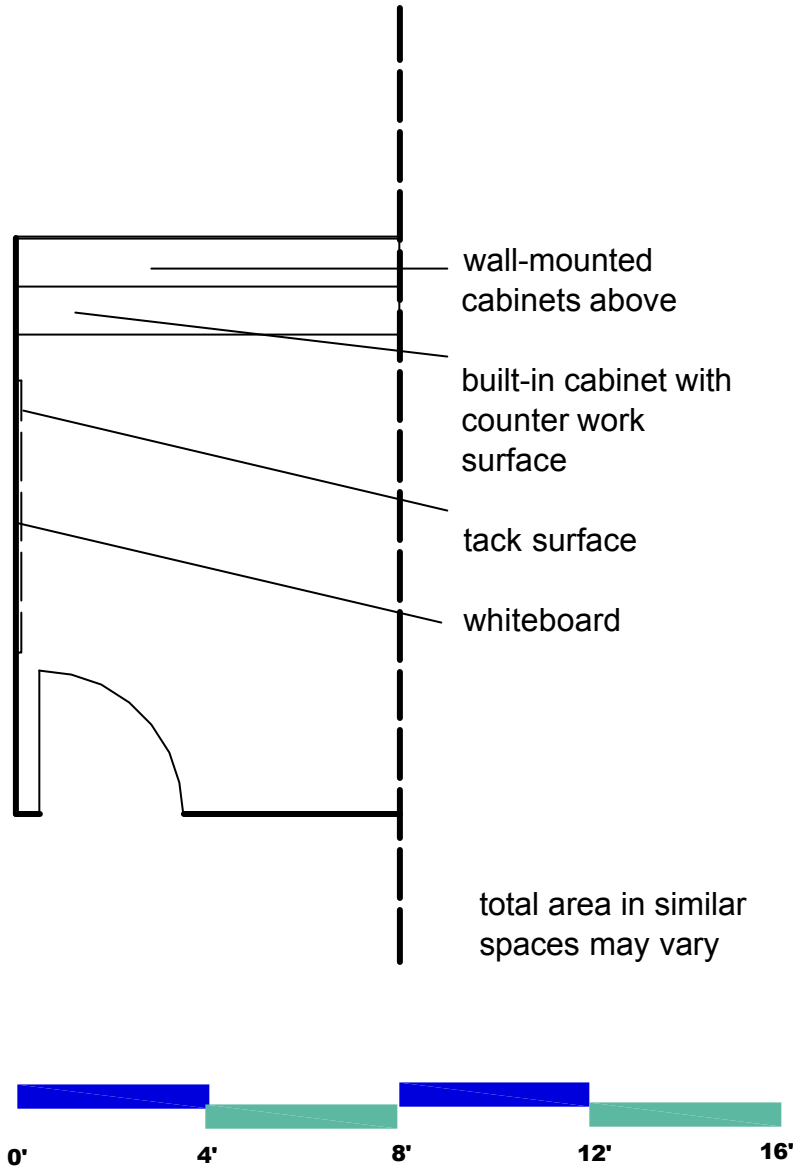
sound control	
stc	30
full sound walls	not required

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

hazardous materials	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
8 lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 8”
	wall rack for crutches with user-provided wheelchair rack below			15 lf
movable furnishings				
1	metal shelf unit, 7 shelves			18” x 48”
	metal shelf unit, 7 shelves			12” x 48”
2	file cabinet, 4 drawer letter			
equipment				
	capacity for photocopier, fax			
1	under-counter refrigerator/ freezer			
space notes				



08 physical therapist assistant
slcc jordan campus health sciences center
faculty office

Salt Lake Community College

summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	4
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space

location and relationships	
location	lower level
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	wireless key pad

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor

sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

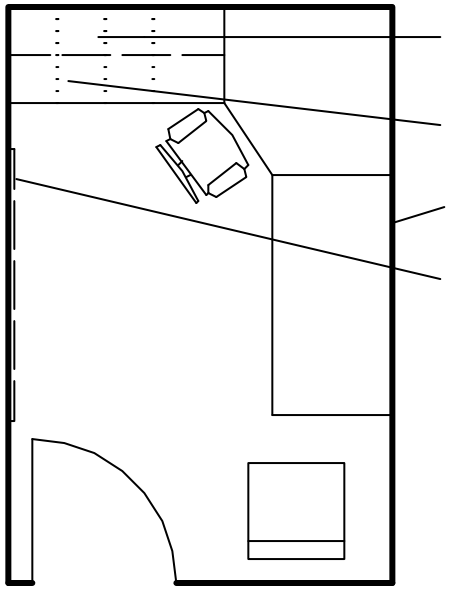
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface, angled corner			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
1	side chair, armless, upholstered			20” x 20” approx.
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.

small conference/ faculty growth

Salt Lake Community College

summary	
space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	6-8
functions	small conference area that can be converted for future faculty or adjunct work space

location and relationships	
location	lower level
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students and faculty

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each potential future work station area
data	capacity for one computer and printer at each future work station
video/tv	none

lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	capacity for future office use
controls	auto sensor

sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

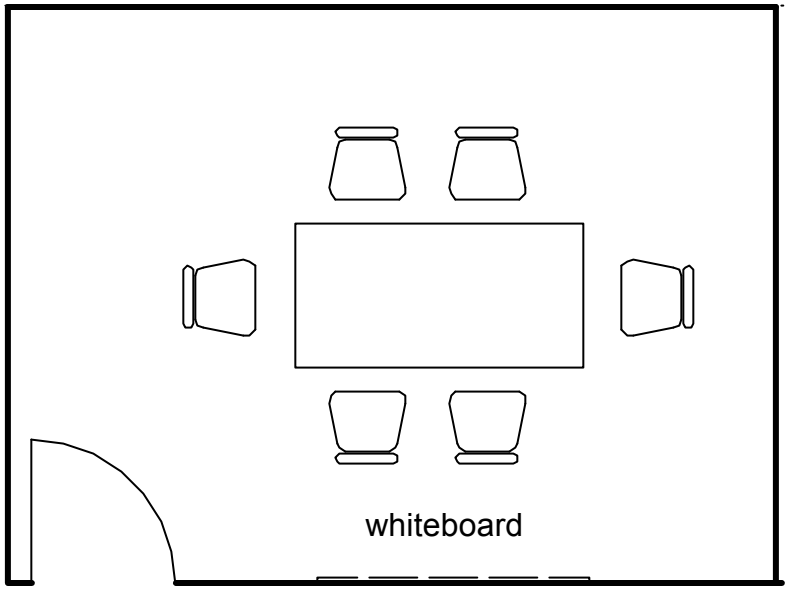
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
movable furnishings				
1	waste can			
1	library reading table			36” x 72”
6	side chair, armless, upholstered			20” x 20” approx.
equipment				
	capacity for 8 laptops and for desktops at future office work stations			
	capacity for printer to serve future office uses			
	capacity for users’ personal electronic items			

space notes

Spaces may be combined with those from other departments to create larger conference/work areas, provided that the configuration will support future conversion to faculty office or adjunct space as programs grow. This capacity will be critical to allow the building to remain functional in the future; lack of faculty space is the major spatial obstacle to program expansion.



Provide a space that can easily be converted to 2 faculty offices in the future.

Can be combined with other similar areas to create a single larger space

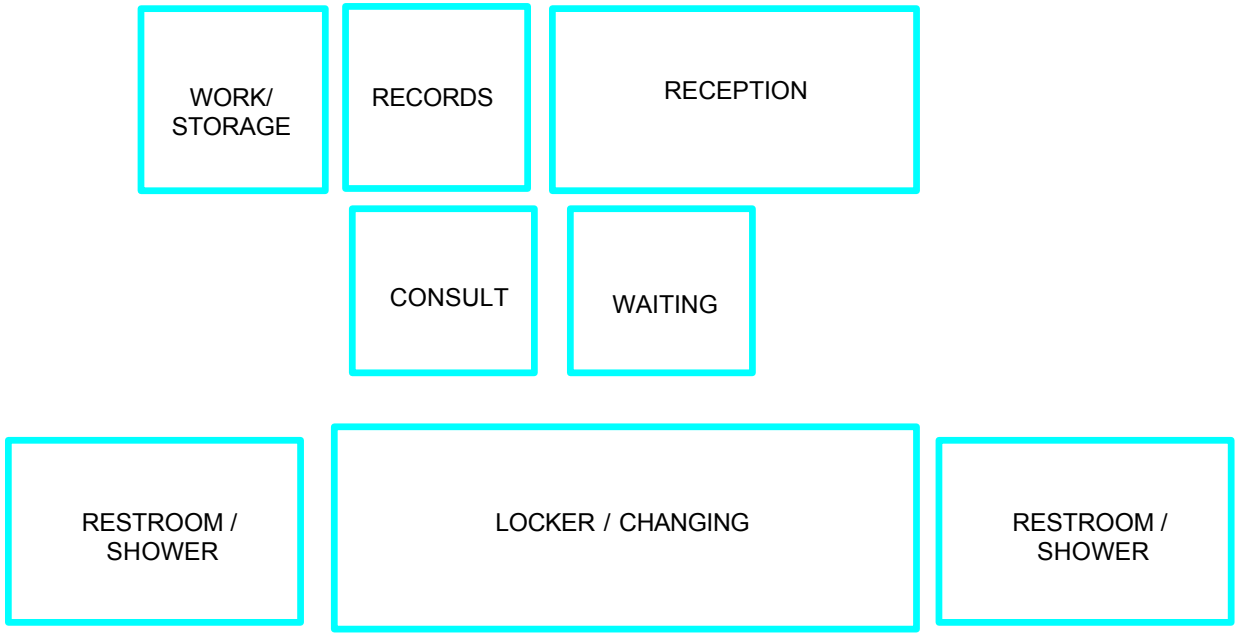
Salt Lake Community College

ota / pta clinic
slcc jordan campus health sciences center

Salt Lake Community College

Salt Lake Community College

#	space	user capacity	quantity	nsf each	total nsf	total unassign-able sf	total gsf
01	Reception / Check-in		1	200	200		200
02	Patient Records		1	100	100		100
03	Professional Consultation		1	120	120		120
04	Work / Storage		1	100	100		100
05	Waiting		6	20	120		120
06	Changing / Lockers		2	175	175		175
07	Accessible Restroom / Shower		2	150	300		300
08	Assistive Technology Open Practice Area		1	300	300		300
TOTALS					1,590		1,590



ota/pta clinic

recepetion / check in

summary	
space type	reception counter
net sf each space	200 sf
total of this type	1
assigned users	2 staff
visitors	1-6 patients
functions	check-in patients for the OTA/ PTA clinic; provide clinical experience for students

location and relationships	
location	lower level
proximity	public location near to elevator adjacent to waiting area and patient records; proximate to OTA and PTA lab areas
access	convenient access for patients

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	2 work stations
data	one computer and one printer at each work station
video/tv	none

lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	possible at staff work areas
controls	auto sensor

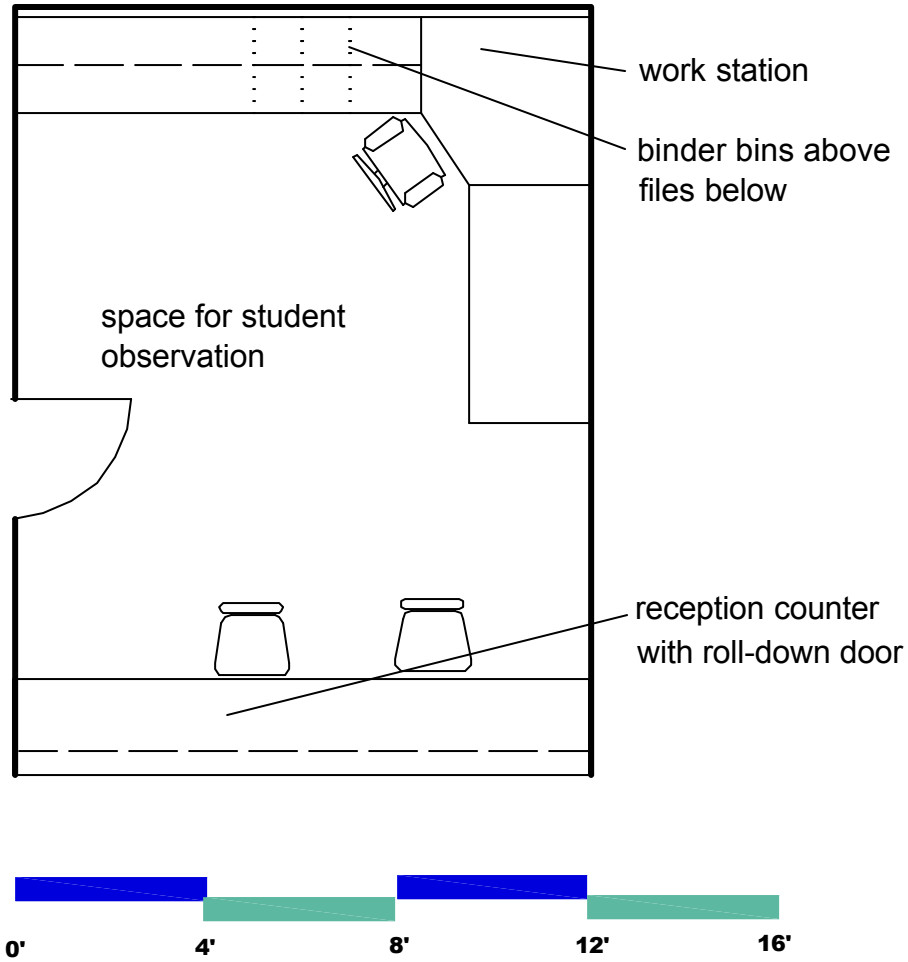
sound control	
stc	40-45
full sound walls	Full sound walls not required;

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

Salt Lake Community College

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	fully accessible built-in counter with patient writing surface on public side, work space on staff side, lockable cabinets and knee space below			24” x 12’
1	work surface			30” x 60”
1	work surface, angled corner			
1	work surface			30” x 102”
4	file pedestal			
	binder bins			
movable furnishings				
2	waste can			
2	counter work chair, armless, on casters, adjustable height			
1	work chair, with arms, on casters			
equipment				
3	desktop computers			
3	computer printers			
space notes				



patient records

Salt Lake Community College

summary	
space type	enclosed secure records room
net sf each space	100 sf
total of this type	1
assigned users	none
visitors	staff access only
functions	store patient records provide clinical experience for students

location and relationships	
location	lower level
proximity	opening off of reception work area
access	adjacent to professional consultation area

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
security	wireless keypad

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity
data	capacity for future use
video/tv	none

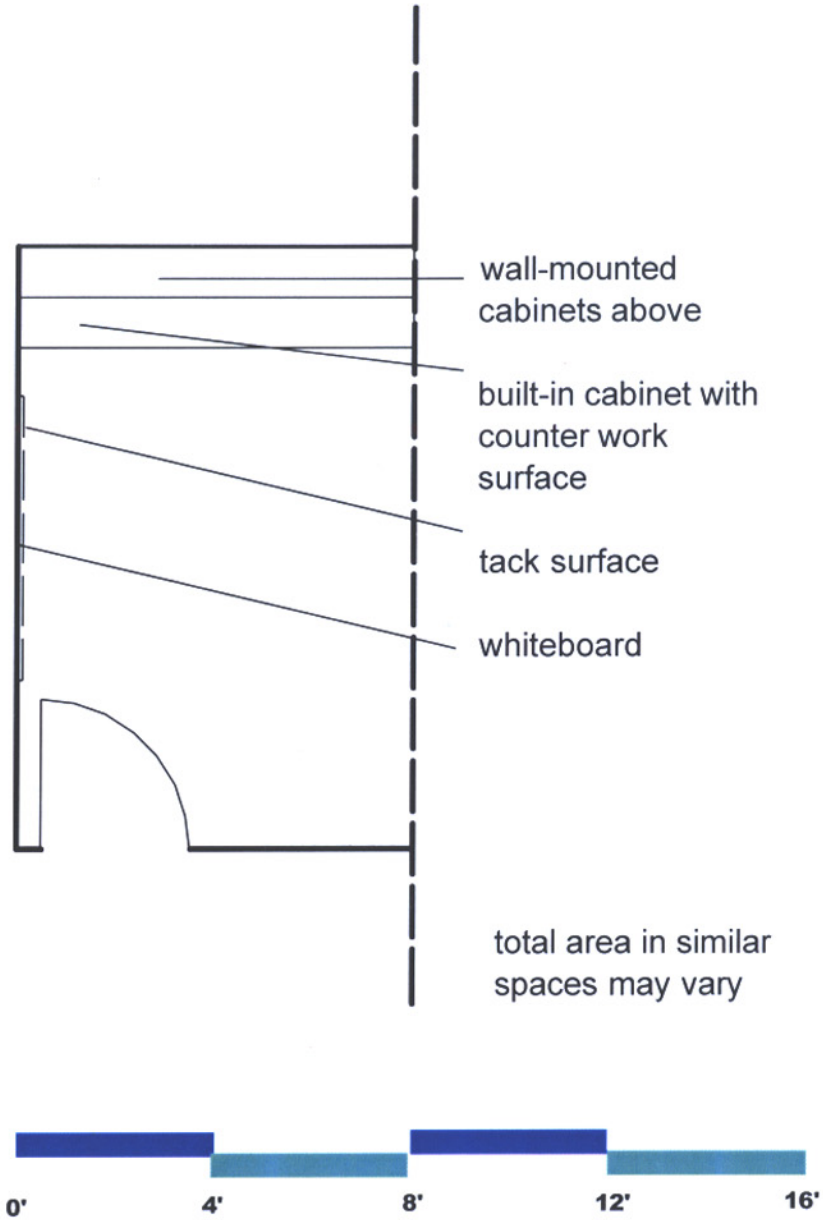
lighting	
natural light	not required
foot candles	30 general; 75 - 100 for reading tasks
fixture types	
task lights	possible at staff work areas
controls	auto sensor

sound control	
stc	40-45
full sound walls	Full sound walls not required

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	base cabinet with work counter			
1	wall-mounted cabinets, lockable			
1	whiteboard			
movable furnishings				
1	waste can			
1	work chair or stool, armless, on casters			
2-4	file cabinet, 4 drawer letter			
equipment				
	capacity for laptop use			
space notes				



Salt Lake Community College

summary	
space type	enclosed private office
net sf each space	120 sf
total of this type	1
assigned users	none
visitors	available for clinic professionals to hold private consultations with patients or students
functions	professional work space

location and relationships	
location	lower level
proximity	adjacent to patient records area and reception
access	convenient access to OTA and PTA labs
security	wireless keypad

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	one line, internet access
data	capacity to support laptop
video/tv	none

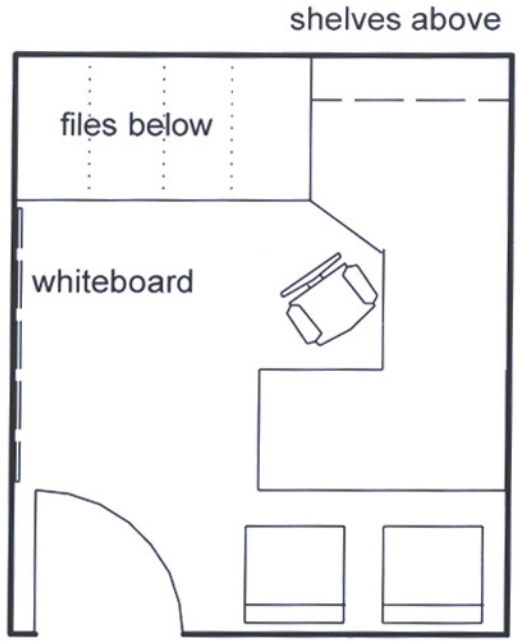
lighting	
natural light	desirable with light and privacy control
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	no
controls	auto sensor

sound control	
nc/rc	50-55
full sound walls	yes

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

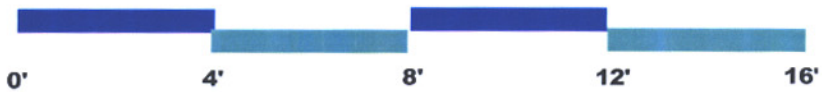
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
2	side chair, armless, upholstered			20" x 20" approx.
equipment				
1	laptop computer			
1	computer printer			
space notes				



Provide privacy for confidential transactions

Provide flexiblity to allow faculty to select preferred configuration and rearrange in the future.



work/copy/storage

Salt Lake Community College

summary	
space type	enclosed work/storage area
net sf each space	100 sf
total of this type	1
assigned users	none
visitors	staff and student access
functions	professional work space

location and relationships	
location	lower level
proximity	adjacent to patient records area and professional consultation room
access	convenient access to OTA and PTA labs
security	wireless keypad

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	one line, internet access
data	capacity to support laptop
video/tv	none

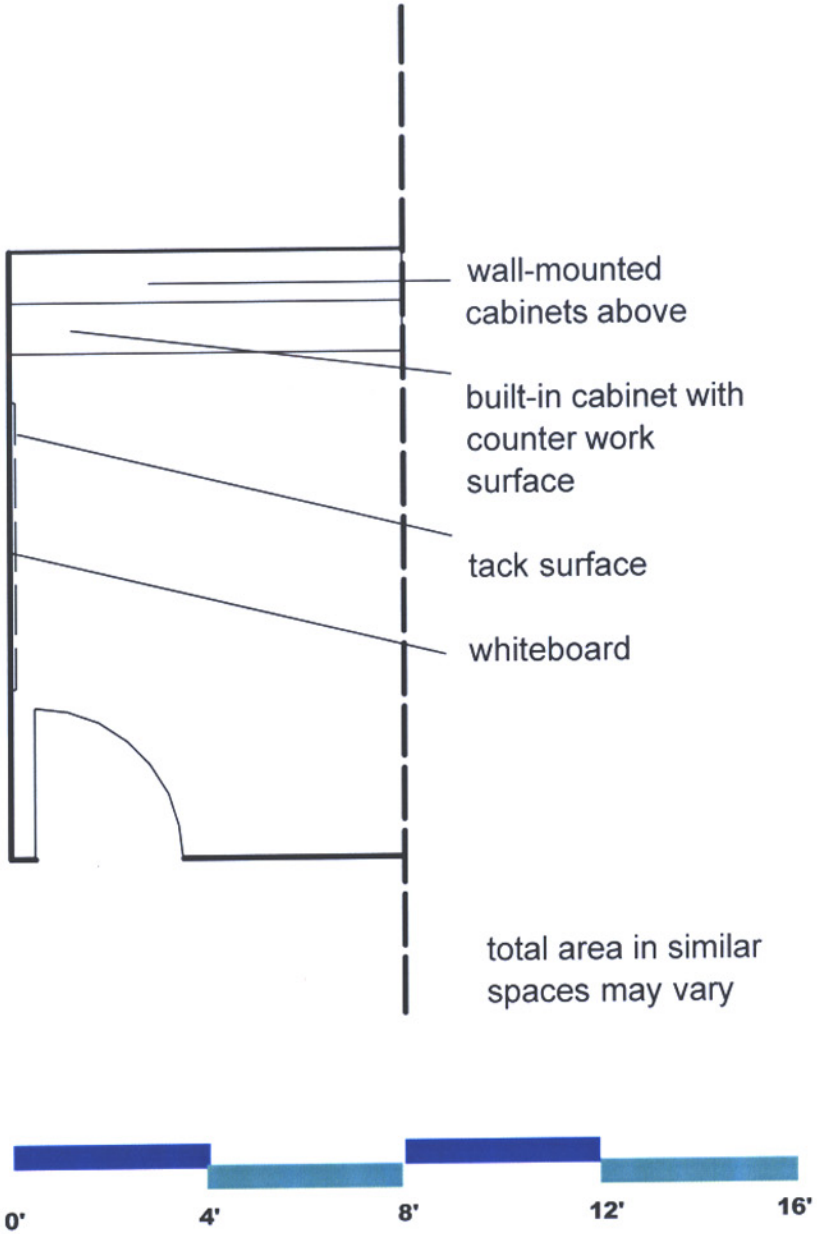
lighting	
natural light	not required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	no
controls	auto sensor

sound control	
nc/rc	30
full sound walls	not required

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
8 lf	base cabinet with counter work surface			24" x 8'
8 lf	wall-mounted cabinet with adj. shelving			12" x 8'
movable furnishings				
1	waste can			
equipment				
1	laptop computer			
1	computer printer			
	capacity for fax			
	capacity for copier			
space notes				



clinic waiting area

Salt Lake Community College

summary	
space type	open waiting area
net sf each space	120 sf
total of this type	1
assigned users	none
visitors	6
functions	patient waiting area

location and relationships	
location	lower level
proximity	adjacent to cllinic reception
access	convenient access to OTA and PTA labs

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	one line, internet access
data	capacity to support laptop
video/tv	none

lighting	
natural light	desirable
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	no
controls	auto sensor

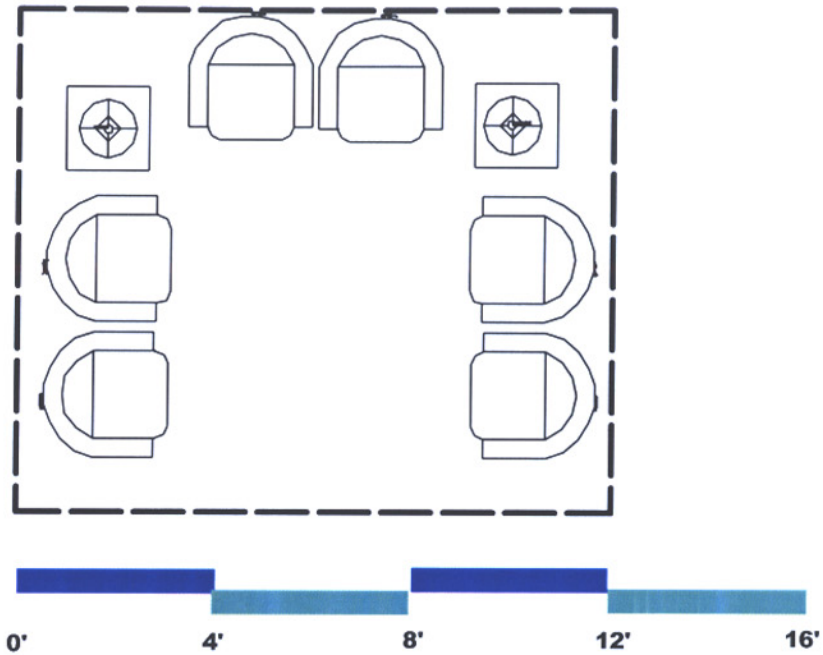
sound control	
nc/rc	30
full sound walls	not required

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	information rack			
movable furnishings				
1	waste can			
6	side chairs, armless			20" x 20" approx.
2	end tables			
equipment				
1	laptop computer			
2	table lamps			

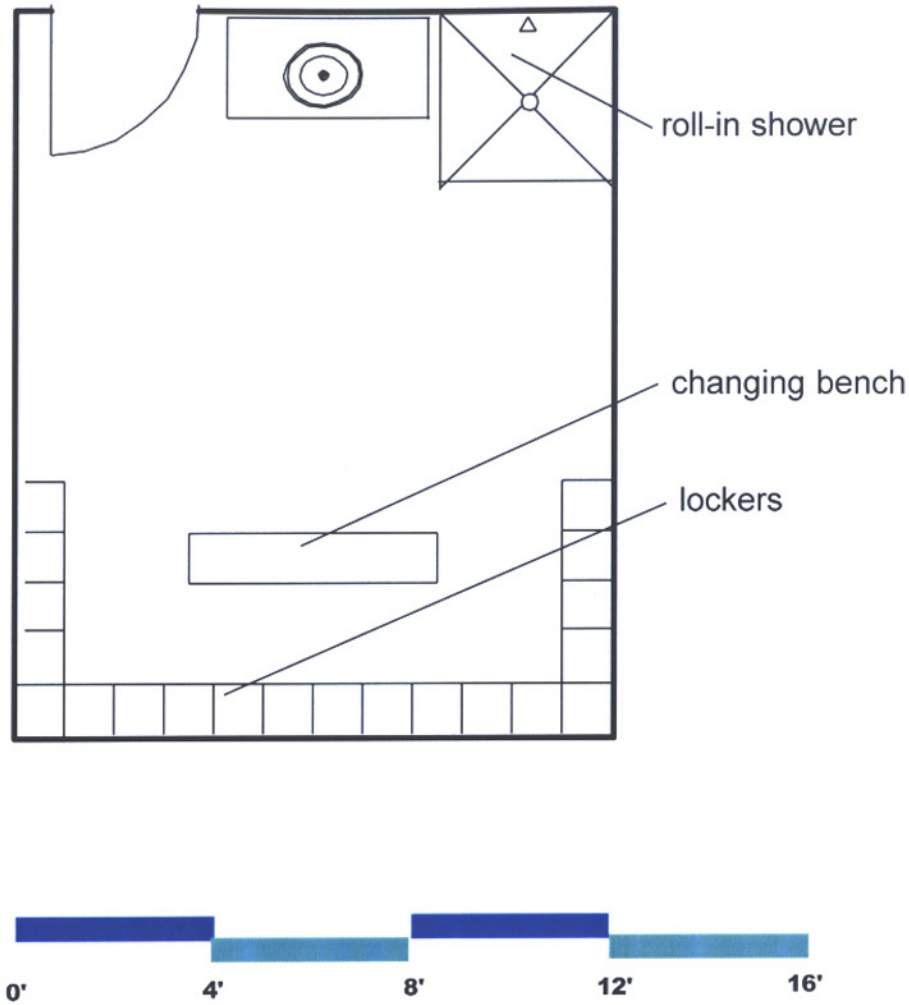
space notes



Salt Lake Community College

summary	
space type	enclosed
net sf each space	175 sf
total of this type	2 (1M, 1W)
assigned users	none
visitors	6
functions	provide fully changing areas for patients at the OTA/PTA Clinic
location and relationships	
location	lower level
proximity	adjacent to cllinic reception; opening onto accessible restroom
access	convenient access to OTA and PTA labs
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet, no slip tile painted gypsum board
electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	noe
data	none
video/tv	none
lighting	
natural light	not required
foot candles	30 general
fixture types	
task lights	no
controls	auto sensor
sound control	
stc	45-50
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	shower, lavatory, floor drain

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	roll-in fully accessible shower			
1	lavatory with base cabinet			
6	full height lockers			12" x 12"; 72" high plus base
1	wall-mounted mirror			
movable furnishings				
1	waste can			
1	locker bench			
equipment				
	capacity for patient personal equipment such as hair dryers			
space notes				



accessible restroom

Salt Lake Community College

summary	
space type	fullly accessible restroom
net sf each space	150 sf
total of this type	2 (1M, 1W)
assigned users	none
visitors	1; may also be used for instruction wth small student groups
functions	provide fully accessible restroom facilities for patients at the OTA/PTA Clinic; provide instructional space

location and relationships	
location	lower level
proximity	adjacent to cllinic reception; opening onto locker/shower area
access	convenient access to OTA and PTA labs

finish	see Jordan Campus Design Guidelines
materials & finish	no-slip tile painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	none
data	none
video/tv	none

lighting	
natural light	not required
foot candles	30 general
fixture types	
task lights	no
controls	auto sensor

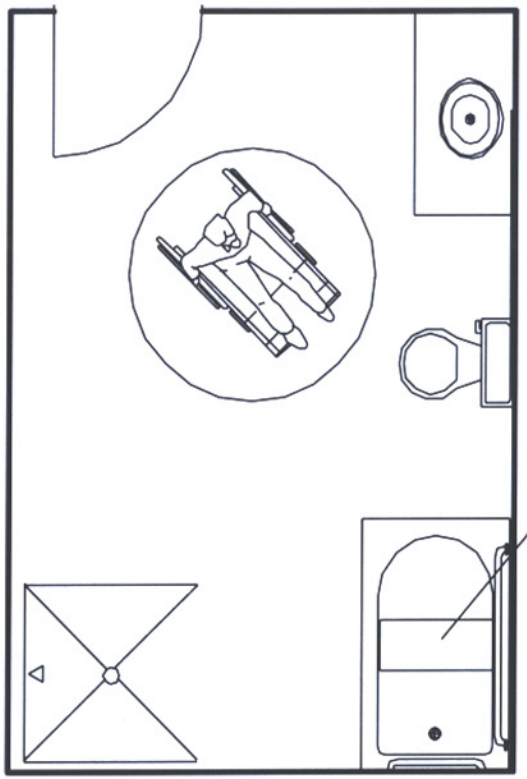
sound control	
stc	45-50
full sound walls	not required

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	tub with hot and cold water, wc; lavatory; floor drain, shower

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	bathtub			
1	lavatory with base cabinet			
1	wall-mounted mirror			
1	roll-in shower			
movable furnishings				
1	waste can			
equipment				
	capacity for patient personal equipment such as hair dryers			
space notes				

provide space for student instruction



accessible tub and shower with removable seat

roll-in shower desirable

space must be fully accessible

08 occupational and physical therapy clinic
slcc jordan campus health sciences center
assistive technology practice area

Salt Lake Community College

summary	
space type	open commons area for travel training
net sf each space	300 sf
total of this type	1
assigned users	none
visitors	1-6 patients
functions	allow patients and students to practice using and teaching asistive technology and maneuvers

location and relationships	
location	lower level
proximity	public location near to elevator visible from and convenient to OTA/PTA clinic area
access	convenient access for patients visible to students

finish	see Jordan Campus Design Guidelines
materials & finish	hard- surface flooring painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for future installation
data	capacity
video/tv	none

lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
controls	auto sensor

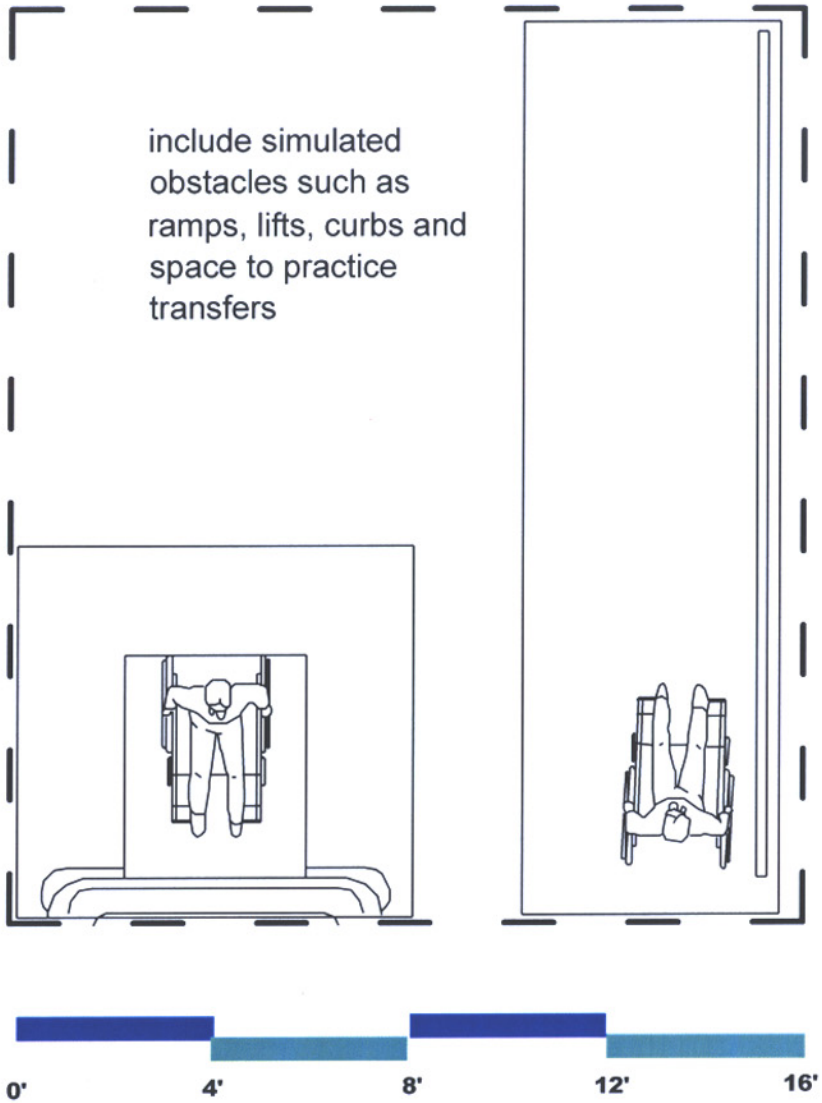
sound control	
stc	40-45
full sound walls	Full sound walls not required

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	partial stair			
	ramps			
	curb			
movable furnishings				
1	waste can			
equipment				
	capacity for laptops			
	misc. assistive devices			
space notes				

This space will allow the program to create a travel training area where students and patients can practice maneuvers such as car transfers; learn to negotiate stairs, ramps, curbs, and other obstacles.



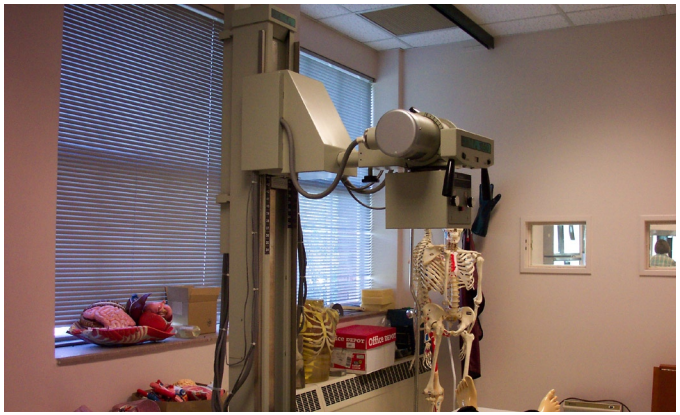
08 occupational and physical therapy clinic

assistive technology practice area

slcc jordan campus health sciences center

radiologic technology
slcc jordan campus health sciences center

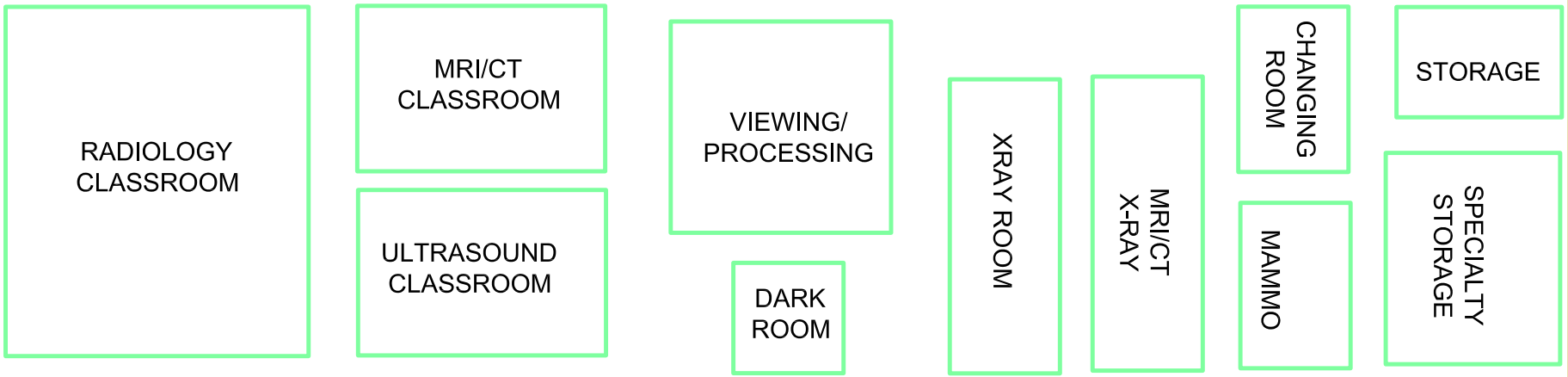
Salt Lake Community College



Salt Lake Community College

#	space	user capacity	quantity	nsf each	total nsf	total unassign-able sf	total gsf
01	Classroom	40	1	1,200	1,200		1,200
02	X-ray Lab		1	400	400		400
03	Control / Viewing		1	200	200		200
04	Dark Room		1	80	80		80
05	Storage		1	200	200		200
06	Faculty Office	1	3	100	300		300
07	Adjunct Office		1	200	200		200
08	Small Conference/ Faculty Growth		1	200	200		200
TOTALS					2,780		2,780

radiologic technology program
radiologic specialties



Salt Lake Community College

summary

space type	classroom
net sf each space	1,200
total of this type	1
assigned users	40
visitors	visiting professionals
functions	classroom instruction

location and relationships

see drawing, page

location	level 3
proximity	Radiology viewing areas, specialties classrooms, storage
access	faculty office and work areas
security	department control of equipment

finish

see also Design Guidelines

materials & finish	gypsum board, vinyl tile

electrical

plus capacity for equipment listed below

power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector; instructor podium
phone	Internet access
data	hook-ups for student laptops; instructor podium -- 3 network connections, 1-2 outlets on surface, permanent computer, input for laptop; ceiling location for projector; link to CR network for image viewing
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector

lighting

natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard; direct light on instructor area; avoid conflict with sight lines
task lights	at instructor podium
controls	at instructor podium auto sensor

sound control

stc	45-50
full sound walls	no

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

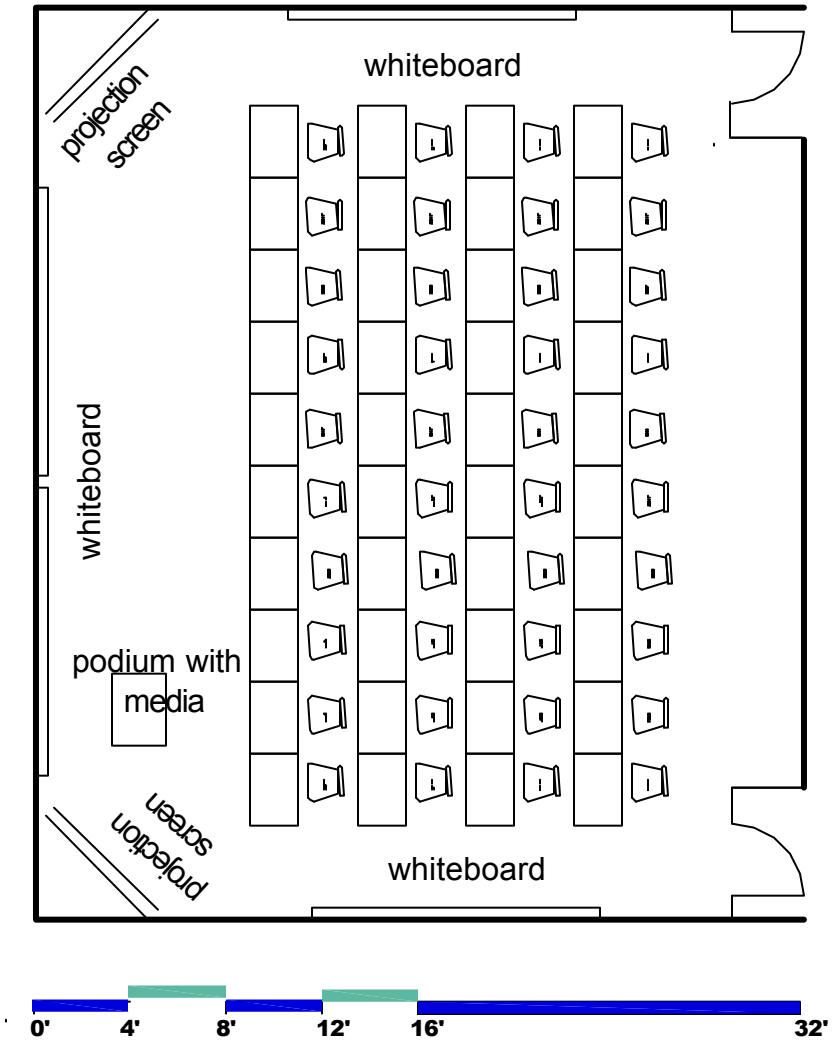
none

qty per room	item	in contract		dimensions
		y	n	

built-in fixtures				
1	instructor podium			
4	whiteboards			48” x 144”
1	projection screen			48” x 60”
	ceiling projection mounts			
8	wall-mounted illuminators, 6 x 6			
40	backpack storage bins			
40	coat hooks			
	tack strips			
	tack boards			
movable furnishings				
40	student desks			20” x 36”
40	student chairs, armless, on casters			
2	waste cans			14”
equipment				
40	student laptops			
1	clock linked to campus master			
2	portable x-ray illuminators			
	models and demonstration equipment			
1	VCR			
1-2	DVD players			
1	document camera			
1	permanent in-room computer			
1	switching system			
	audio speakers			
	audio amplifier if needed			

space notes

This space serves as “home base” for students, who spend large blocks of time in the classroom.



x-ray room

Salt Lake Community College

summary

space type	x-ray room
net sf each space	400
total of this type	1
assigned users	40, in groups
visitors	visiting professionals
functions	classroom instruction

location and relationships

see drawing, page

location	level 3 corner location desirable to minimize shielding requirements
proximity	Radiology viewing areas, classroom, specialties classrooms, storage
access	faculty office and work areas may be shared by Medical Assisting and other programs
security	department control of equipment wireless keypad

finish

see also Design Guidelines

materials & finish	gypsum board, vinyl tile

electrical

plus capacity for equipment listed below

power	min. 2 double duplex front and rear, 1 double duplex each side wall;
phone	Internet access
data	hook-ups for student laptops; link to CR network for image viewing
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector

lighting

natural light	desirable with light control
foot candles	30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard; avoid conflict with sight lines
task lights	no
controls	auto sensor

sound control

stc	45-50
full sound walls	no

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	none

hazardous materials

	x-ray requires lead shielding to project adjacent occupied spaces on all sides, above, and below.

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard			48” x 72”
	ceiling projection mounts			
	rails for tube stand			96”
	tack boards			
1	lead-lined observation window to control panel			36” x 36” max
	storage for lead aprons, shields, and gloves			
movable furnishings				
1	waste can			14”
equipment				
40	student laptops			
1	clock linked to campus master			
1	tube stand, pivoting			96” rail length
1	four-way float top x-ray table			32” x 86”
	models and demonstration equipment			

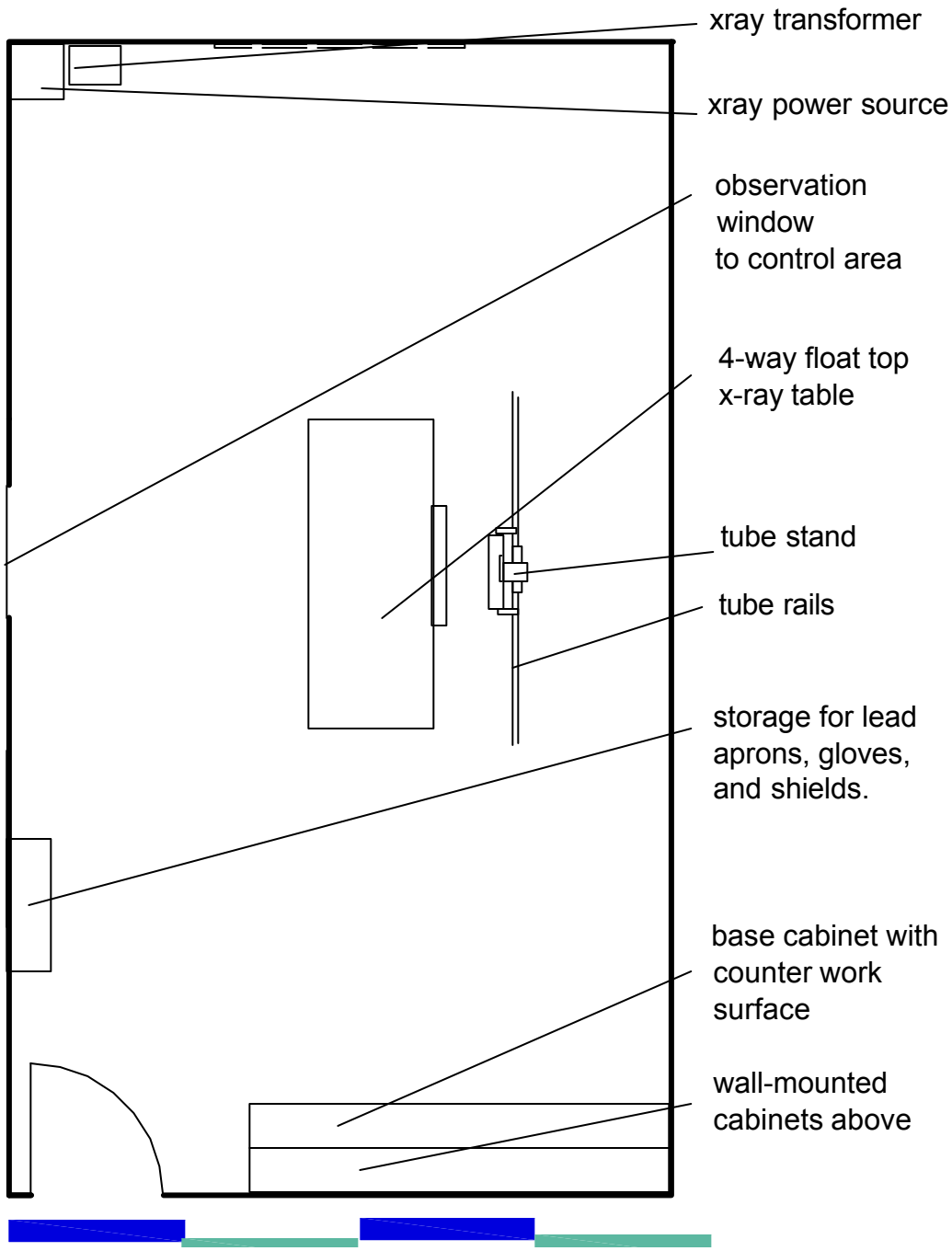
Include space for demonstration materials such as mannikins, skeletons, and models.

Tube stands run on rails and require additional support from wall or ceiling.

9’ - 10’ clear ceiling height required.

Space should accommodate groups of 10 students, with ample room to practice maneuvering stretchers and wheelchairs.

Staff like existing configuration with windows into classroom space.



control / cr viewing

Salt Lake Community College

summary

space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	
functions	

location and relationships

location	level 3
proximity	x-ray room, darkroom radiologic technology classroom
access	convenient access for students and faculty

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board walls a medium tone to minimize glare on screens

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each potential future work station area
data	link to CT viewing network CT readers/display units
video/tv	none

lighting

natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks, dimmable
fixture types	indirect
task lights	may be required for writing
controls	auto sensor controls at reading area

sound control

stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

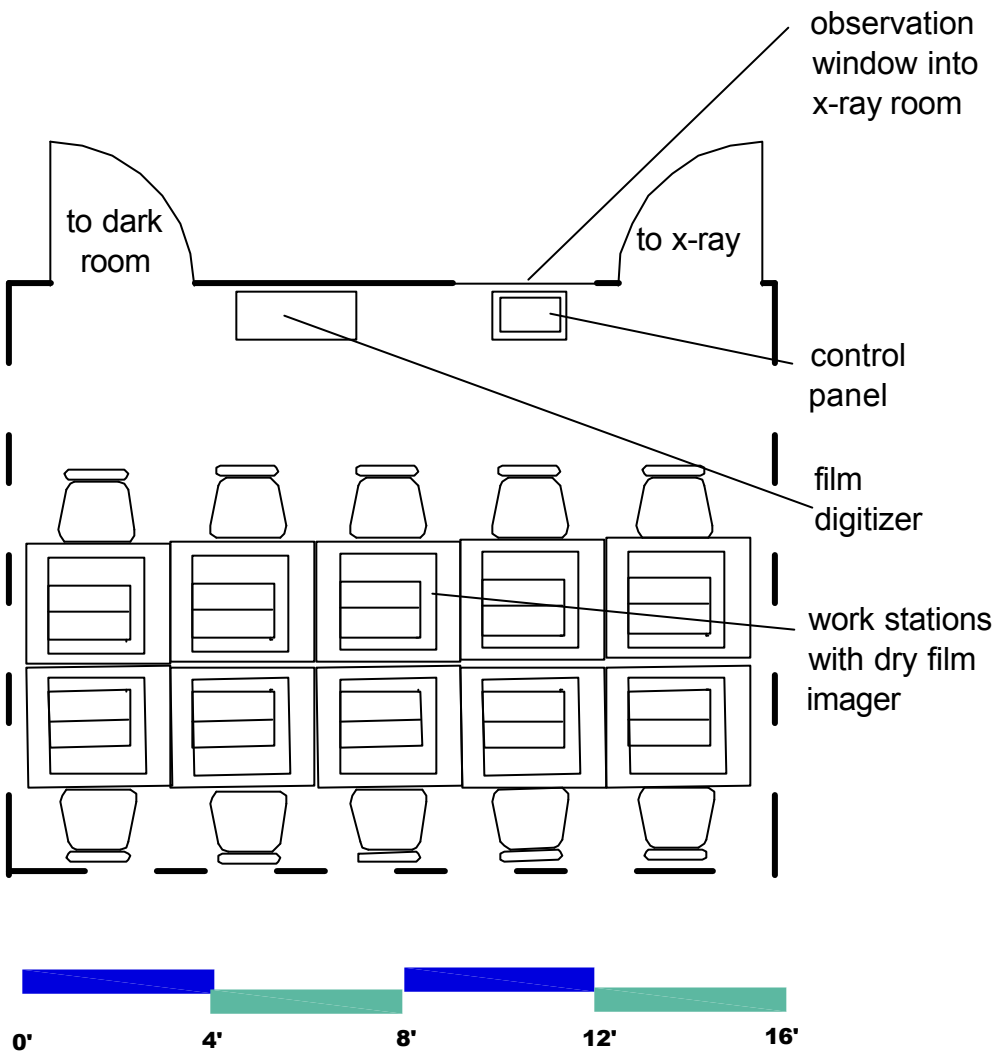
plumbing

	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	observation window into x-ray room, lead-lined glass			36” x 36”
1	x-ray control uni			16” x 23” approx.
	x-ray view box/ illuminator 6 x 6			40” x 85” approx.
movable furnishings				
1	waste can			
5-10	work stations for digital readers			
5-10	work chairs, armless, on casters			
equipment				
5-10	digital x-ray readers			

space notes

Lighting may be a special concern in this area if students use both traditional viewbox/illuminators and CT readers, because the bright light emitted by illuminators can scatter and make CT screens difficult to read.



darkroom

Salt Lake Community College

summary

space type	darkroom
net sf each space	80
total of this type	1
assigned users	0
visitors	students and instructors
functions	store program suppplies and small equipment

location and relationships

location	main level
proximity	wellness center radiology room
access	convenient staff access; may be used by other programs
security	department control of equipment

finish

see Jordan Campus Design Guidelines

materials & finish	painted gypsum board chemical resistant hard-surface flooring and counter tops light-tight seals at all openings

electrical

plus capacity for equipment listed below

power	minimum one double duplex outlet every 12', with at least one on every wall.
phone	capacity for future use
data	capacity for future use
video/tv	not required

lighting

natural light	no
foot candles	30 general; 75 filing tasks
fixture types	fluorescent
task lights	safe light with separate switch; "in-use" light outside
controls	auto sensor

sound control

stc	30
full sound walls	not required

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

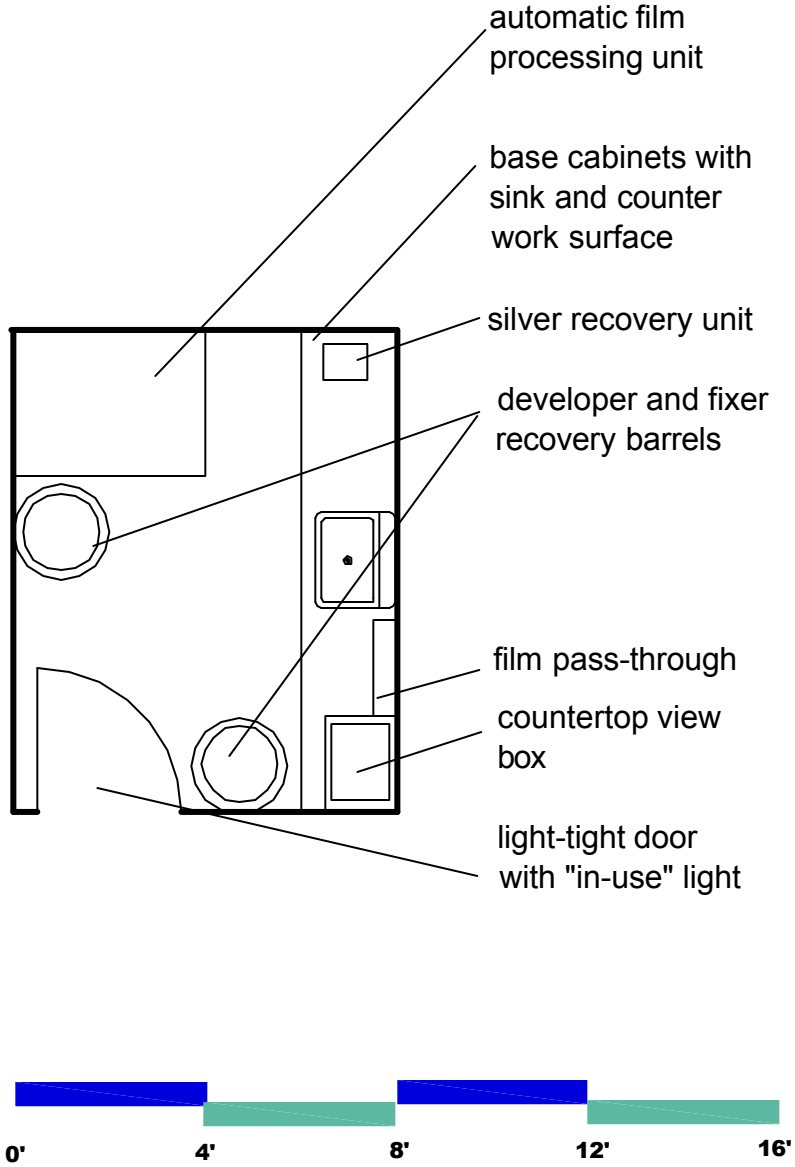
plumbing

	floor drain, acid-resistant piping, vacuum breaker on piping to tanks; deep sink

hazardous materials

	developer and fixer recovery provided and serviced by hazardoous waste contractor

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 10’
1	tack board / tack surface			
1	film pass-through to xray room			
movable furnishings				
1	waste receptacle			
equipment				
1	counter top view box			18” x 24”
1	silver recovery unit			6” x 8” approx.
1	developer and fixer recovery barrels			24” diameter 48” high
1	automatic film processing unit			36” x 48” approx.
1	light-proof metal film-storage bin			
	film drying racks			
space notes				



Salt Lake Community College

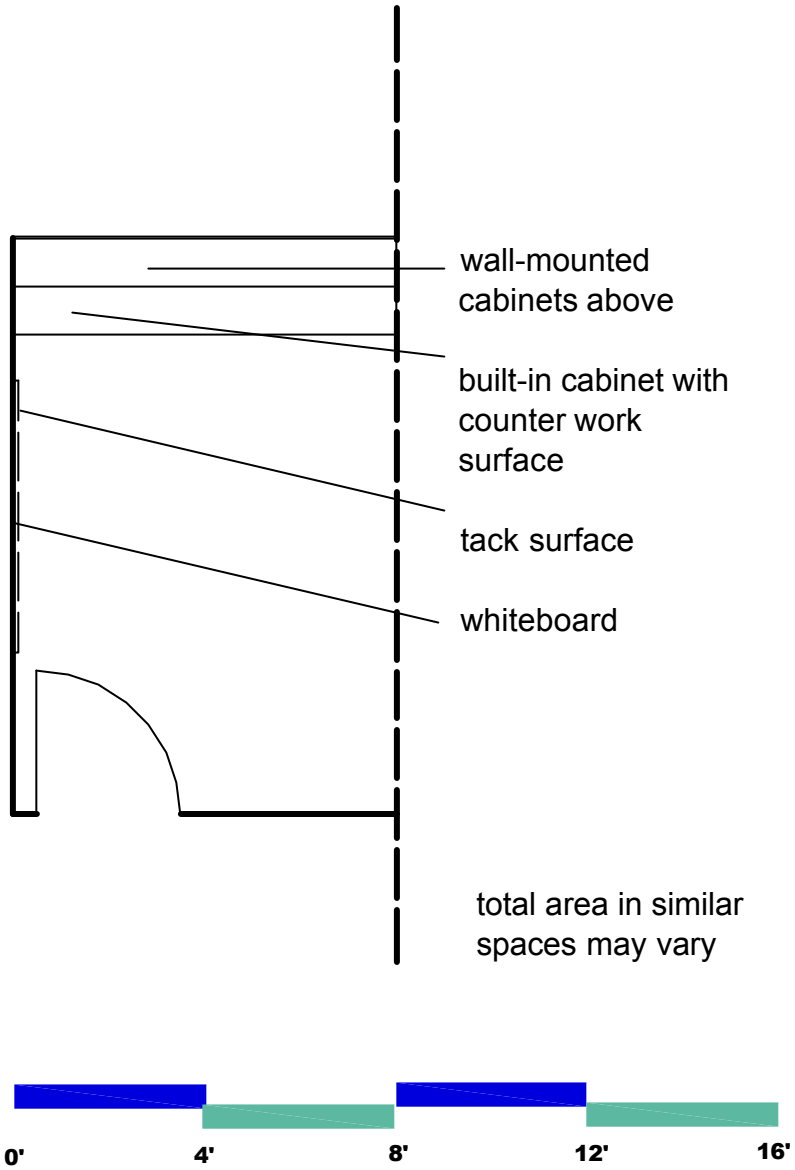
summary	
space type	department storage
net sf each space	200
total of this type	1
assigned users	0
visitors	students and instructors
functions	store program suppplies and small equipment
location and relationships	
location	level 3
proximity	radiologic technology labs and classrooms
access	radiologic technology faculty
security	department control of equipment wireless keypad
finish see Jordan Campus Design Guidelines	
materials & finish	painted gypsum board static-free carpet or hard-surface flooring
electrical plus capacity for equipment listed below	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity for future use
data	capacity for future use
video/tv	not required

lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 10’
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 10’
1	tack board / tack surface			
10 lf	open adjustable shelving			12” x 10’
movable furnishings				
1	waste receptacle, small			
2-4	file cabinet, 4 drawer, letter size			
	x-ray files			
equipment				
1	photocopier			
1	fax			

space notes

The program needs space to store student files, large-format x-ray files, mannikins and models, rference materials, and equipment such as lead aprons, gloves, shields, and stretchers.



faculty office

Salt Lake Community College

summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	2
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space

location and relationships	
location	level 3
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	wireless keypad

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
vcp	70
controls	auto sensor

sound control	
nc/rc	30
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

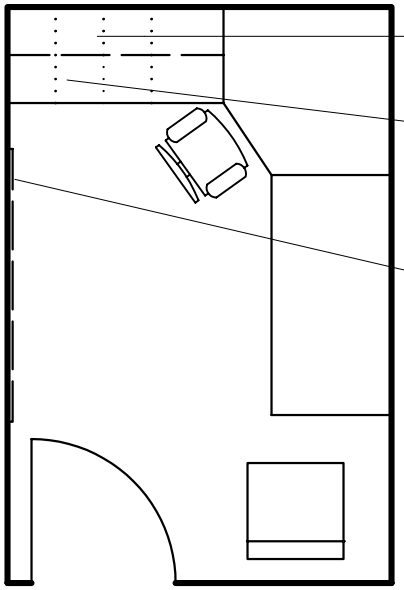
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface, angled corner			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
1	side chair, armless, upholstered			20” x 20” approx.
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



Provide flexiblity to allow faculty to select preferred configuration and rearrange in the future.

adjunct work area

Salt Lake Community College

summary

space type	enclosed shared work area
net sf each space	200 sf
total of this type	1
assigned users	2-3 adjunct faculty at a time
visitors	1-2 students
functions	professional work space for adjunct faculty who do not have assigned individual offices

location and relationships

location	level 3
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students faculty access to labs and classrooms

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each work station
data	capacity for one computer and printer at each work station
video/tv	none

lighting

natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor

sound control

stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

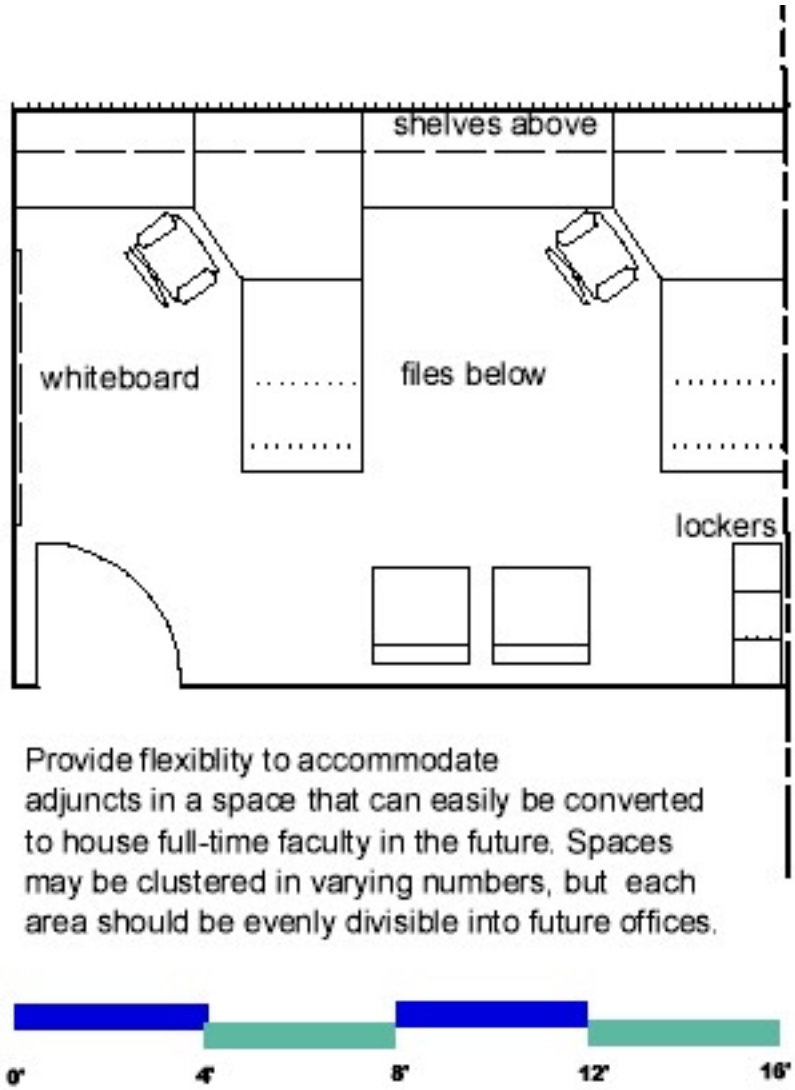
plumbing

	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
	half-height lockers			12” x 12” x 36”
movable furnishings				
3	waste can			
3	work surface			30’ x 54”
3	letter size file pedestals			15” x 29”
3	work surface			30” x 30”
3	work surface, angled corner			
3	shelf unit, 4 shelves			12” x 60”
3	work station coat hook, tack surface, keyboard drawer			
3	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
2	side chair, armless, upholstered			20” x 20” approx.
equipment				
3	desltop or laptop computer			
1	computer printer			
	capacity for users’ personal electronic items			

space notes

Adjunct spaces may be combined to create larger work-rooms shared by adjuncts from more than one department. Lockers for all adjunct areas on a floor may be clustered in or adjacent to work and break areas.



Provide flexiblity to accommodate adjuncts in a space that can easily be converted to house full-time faculty in the future. Spaces may be clustered in varying numbers, but each area should be evenly divisible into future offices.

small conference/ faculty growth

Salt Lake Community College

summary

space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	6-8
functions	small conference area that can be converted for future faculty or adjunct work space

location and relationships

location	main level
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students and faculty

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each potential future work station area
data	capacity for one computer and printer at each future work station
video/tv	none

lighting

natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	capacity for future office use
controls	auto sensor

sound control

stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

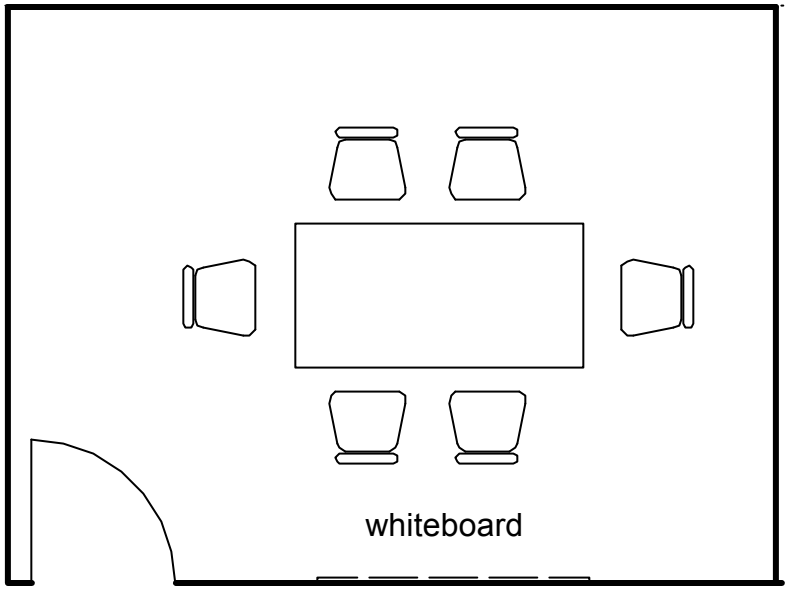
plumbing

	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
movable furnishings				
1	waste can			
1	library reading table			36” x 72”
6	side chair, armless, upholstered			20” x 20” approx.
equipment				
	capacity for 8 laptops and for desktops at future office work stations			
	capacity for printer to serve future office uses			
	capacity for users’ personal electronic items			

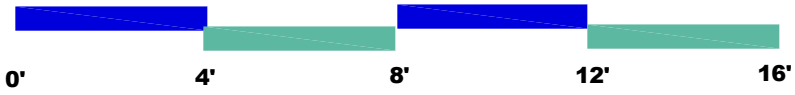
space notes

Spaces may be combined with those from other departments to create larger conference/work areas, provided that the configuration will support future conversion to faculty office or adjunct space as programs grow. This capacity will be critical to allow the building to remain functional in the future; lack of faculty space is the major spatial obstacle to program expansion.



Provide a space that can easily be converted to 2 faculty offices in the future.

Can be combined with other similar areas to create a single larger space



08 radiologic technology

slcc jordan campus health sciences center

Salt Lake Community College

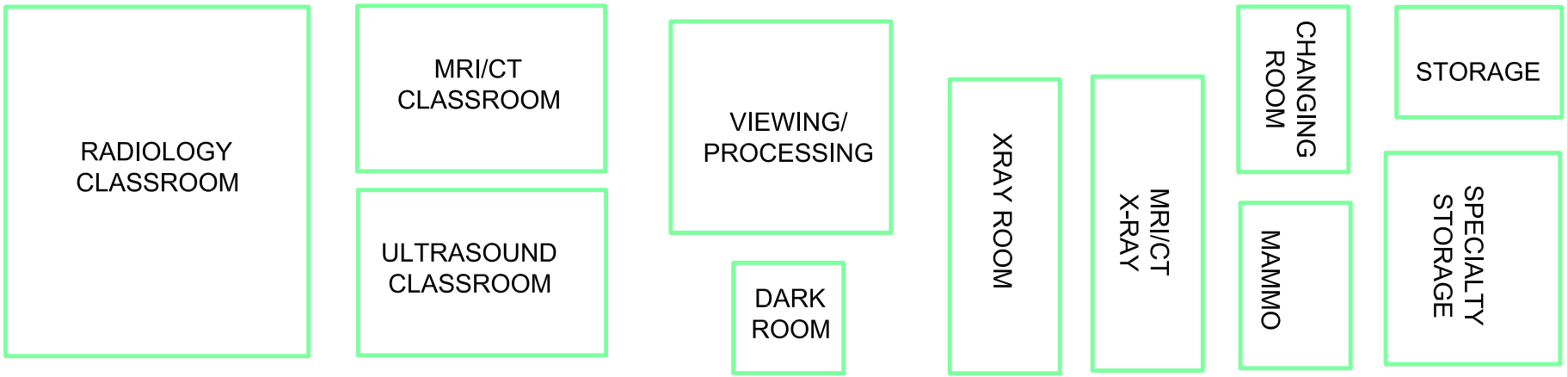
radiologic specialties
slcc jordan campus health sciences center

Salt Lake Community College

Salt Lake Community College

#	space	user capacity	quantity	nsf each	total nsf	total unassign-able sf	total gsf
01	Specialties Classroom	20	2	600	1,200		1,200
02	Instructional Computer Lab	20		700	700		700
03	Specialties Lab		1	400	400		400
04	Specialties Lab		1	200	200		200
05	Processing / Viewing Area		1	400	400		400
06	Mammography Lab		1	200	200		200
07	Changing Area		1	200	200		200
08	Faculty Office		3	100	300		300
09	Adjunct Office		1	200	200		200
10	Specialties Storage		1	300	300		300
TOTALS					3,900		3,900

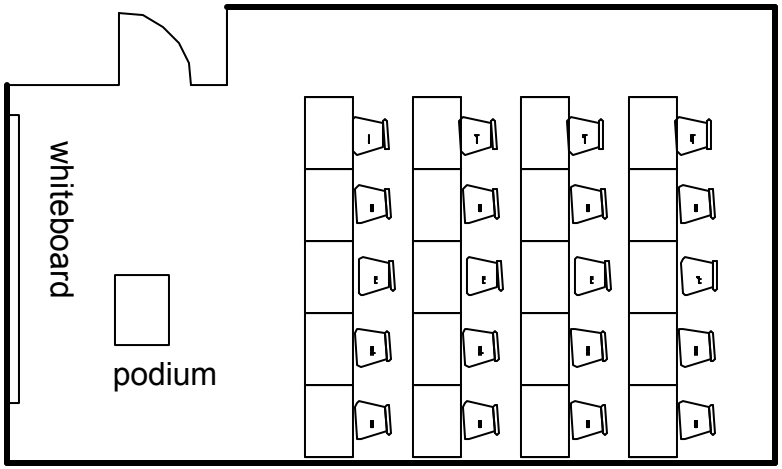
radiologic technology program
radiologic specialties



Salt Lake Community College

summary	
space type	classroom
net sf each space	600
total of this type	2
assigned users	20
visitors	visiting professionals
functions	classroom instruction
location and relationships see drawing, page	
location	level 3
proximity	ultrasound lab linked to viewing network
access	other radiologic technology and radiologic specialties areas
security	department control of equipment and models wireless keypad
finish see also Design Guidelines	
materials & finish	gypsum board, vinyl tile
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector; instructor podium
phone	Internet access
data	hook-ups for student laptops; instructor podium -- 3 network connections, 1-2 outlets on surface, permanent computer, input for laptop; ceiling location for projector
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector
lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard; direct light on instructor area; avoid conflict with sight lines for projection
task lights	at instructor podium
controls	at instructor podium auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor podium			
4	whiteboards			48” x 144”
1	projection screen			48” x 60”
	ceiling projection mounts			
	x-ray view box / illuminator, 6 x6			
	tack strips			
	tack boards			
movable furnishings				
20	student desks			20” x 36”
20	student chairs, armless, on casters			
2	waste cans			14”
equipment				
20	student laptops			
1	clock linked to campus master			
1	VCR			
1-2	DVD players			
1	document camera			
1	permanent in-room computer			
1	switching system			
	audio speakers			
	audio amplifier if needed			
space notes				



Salt Lake Community College

summary

space type	instructional computer lab
net sf each space	700 sf
total of this type	1
assigned users	20 students
visitors	visiting professionals
functions	computer instruction student lab when class not in session

location and relationships

location	main level
proximity	MRI, CT, Ultrasound, and Radiology classroom and lab areas
access	may be shared when not in use for classes
security	department control of equipment and software wireless keypad

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet or vinyl tile painted gypsum board

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	at each student station and lab instructor area
video/tv	none

lighting

natural light	no
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	no
vcp	70
controls	

sound control

stc	50
full sound walls	no

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	none

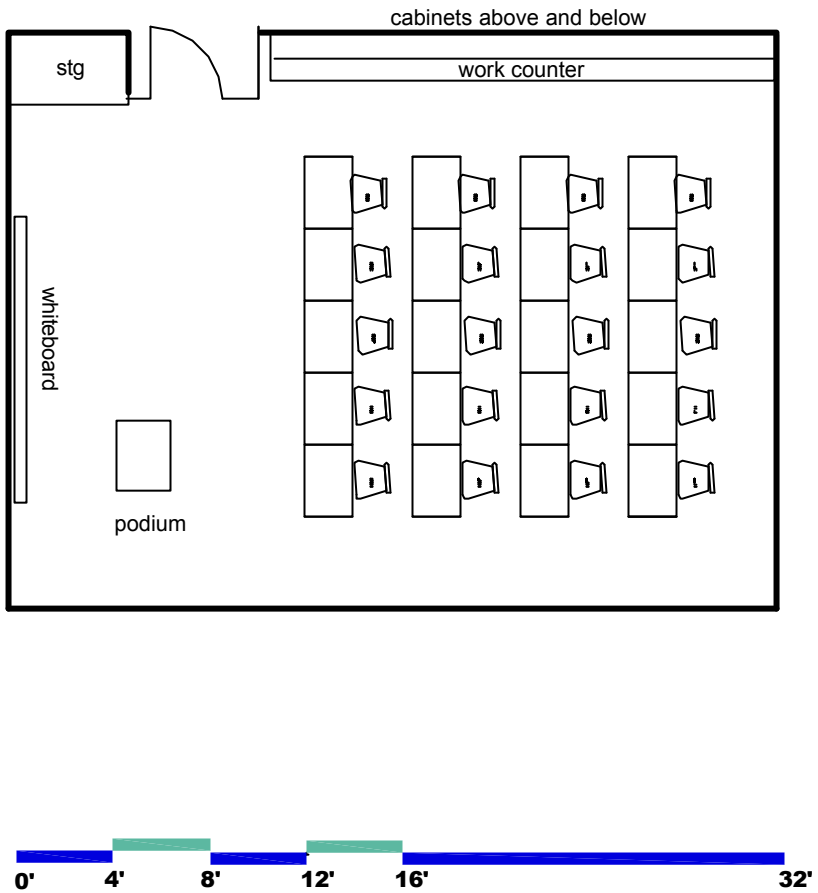
hazardous materials

none

qty per room	item	in contract y	in contract n	dimensions
built-in fixtures				
1	whiteboard	■		48” x 144”
	tack strips	■		
	tack boards	■		
		■		
movable furnishings				
2	waste cans	■		
20	computer work tables	■		
20	work chairs, on casters, armless	■		
	computer printer tables	■		
equipment				
20	desltop computers		■	
1	clock linked to campus master	■		
1	CPU server	■		
	computer printers	■		
		■		

space notes

The computer lab must be available to students during scheduled class times for instruction and practice.



Salt Lake Community College

summary	
space type	simulated procedure lab
net sf each space	400
total of this type	1
assigned users	20
visitors	visiting professionals
functions	classroom instruction
location and relationships see drawing, page	
location	level 3
proximity	Radiology viewing areas, classroom, specialties classrooms, storage
access	faculty office and work areas may be shared by Medical Assisting and other programs
security	department control of equipment wireless keypad
finish see also Design Guidelines	
materials & finish	gypsum board, vinyl tile
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; dedicated circuit for ultrasound equipment
phone	Internet access
data	hook-ups for student laptops; link to CR network for image viewing
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector

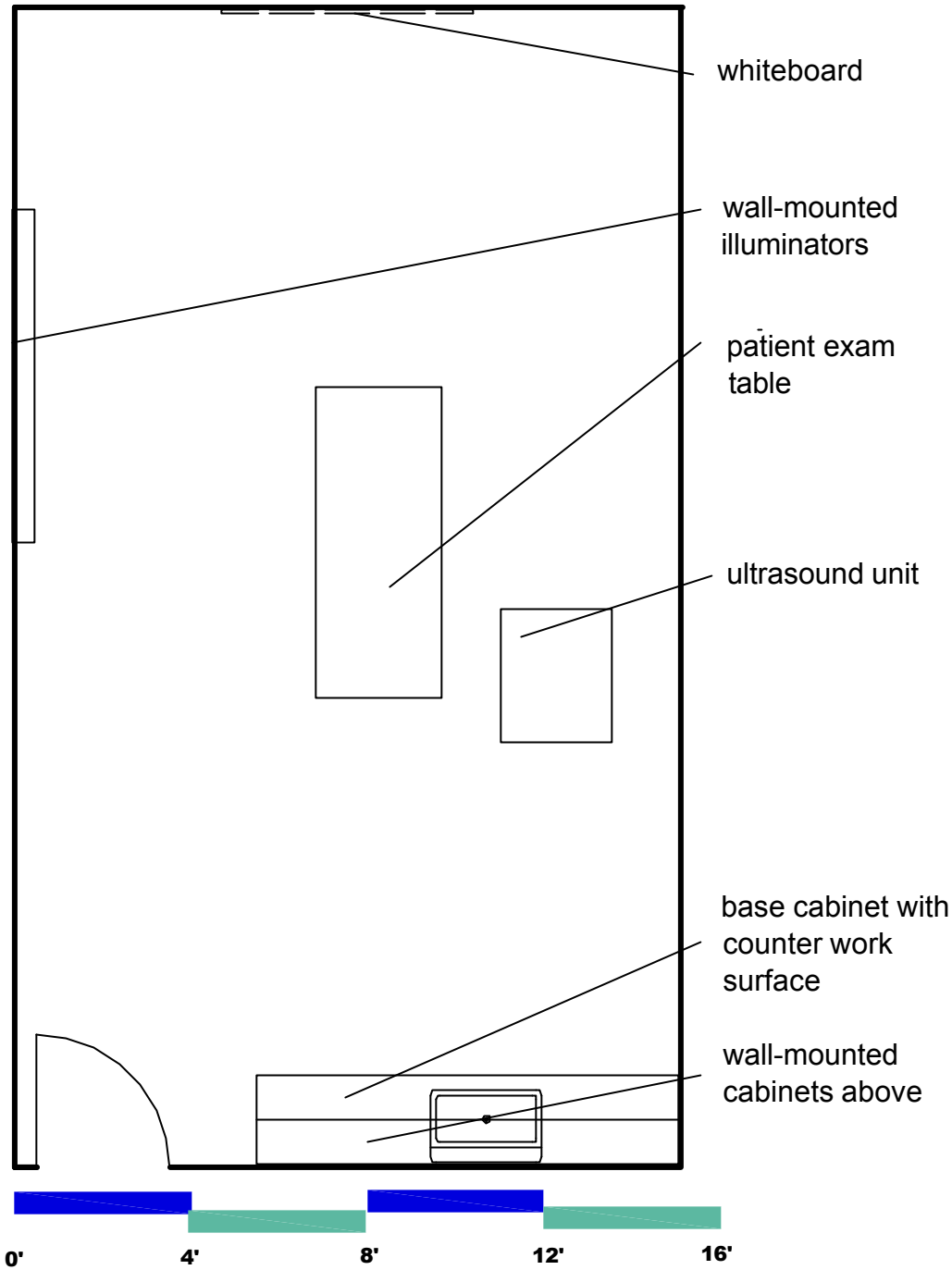
lighting	
natural light	desirable with light control
foot candles	30 general; 75 for reading tasks
fixture types	dimmable indirect perimeter lighting switched separately
task lights	no
controls	auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	shielding not required

qty per room	item	in contract y	in contract n	dimensions
built-in fixtures				
1	whiteboard	■		48” x 72”
	ceiling projection mounts	■		
	tack board	■		
movable furnishings				
1	exam table	■		
1	waste can	■		14”
1	mayo stand	■		
equipment				
10	student laptops		■	
1	clock linked to campus master	■		
1	ultrasound unit	■		27” x 34” x 54” approx.
1	wall-mounted illuminator, 6 x 6	■		
	models and demonstration equipment	■		

space notes

Will require space for demonstration materials such as mannikins, skeletons, and models

The lab should have space for groups of 10 students to observe and practice.



Salt Lake Community College

summary	
space type	
net sf each space	200
total of this type	1
assigned users	20, in groups
visitors	visiting professionals
functions	classroom instruction

location and relationships see drawing, page	
location	level 3
proximity	viewing areas, classroom, specialties classrooms, storage
access	faculty office and work areas may be shared by Medical Assisting and other programs
security	department control of equipment wireless keypad

finish see also Design Guidelines	
materials & finish	gypsum board, vinyl tile

electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; dedicated circuit for ultrasound equipment
phone	Internet access
data	hook-ups for student laptops; link to CR network for image viewing
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector

lighting	
natural light	desirable with light control
foot candles	30 general; 75 for reading tasks
fixture types	dimmable indirect perimeter lighting switched separately
task lights	no
controls	auto sensor

sound control	
stc	45-50
full sound walls	no

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

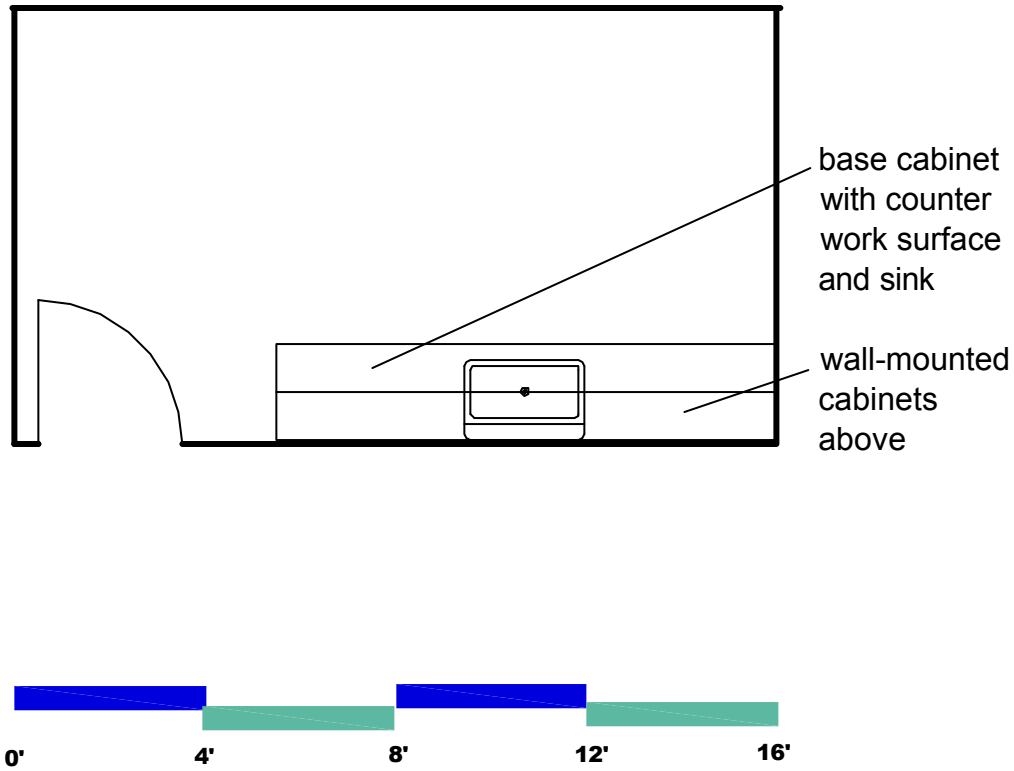
hazardous materials	
	shielding not required

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard			48” x 72”
	ceiling projection mounts			
1	base cabinet with sink			24” x 10’
1	wall-mounted cabinets			12” x 10’
	tack board			
movable furnishings				
1	waste can			14”
equipment				
10	student laptops			
1	clock linked to campus master			
	simulated or inactive MRI/ CT equipment			
	models and demonstration equipment			

space notes

Will require space for demonstration materials such as mannikins, skeletons, and models

The lab should have space for groups of 10 students to observe and practice.



Salt Lake Community College

summary	
space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	
functions	

location and relationships	
location	level 3
proximity	x-ray room, darkroom radiologic technology classroom
access	convenient access for students and faculty

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board walls a medium tone to minimize glare on screens

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each potential future work station area
data	link to CT viewing network CT readers/display units
video/tv	none

lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks, dimmable
fixture types	indirect
task lights	may be required for writing
controls	auto sensor controls at reading area

sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

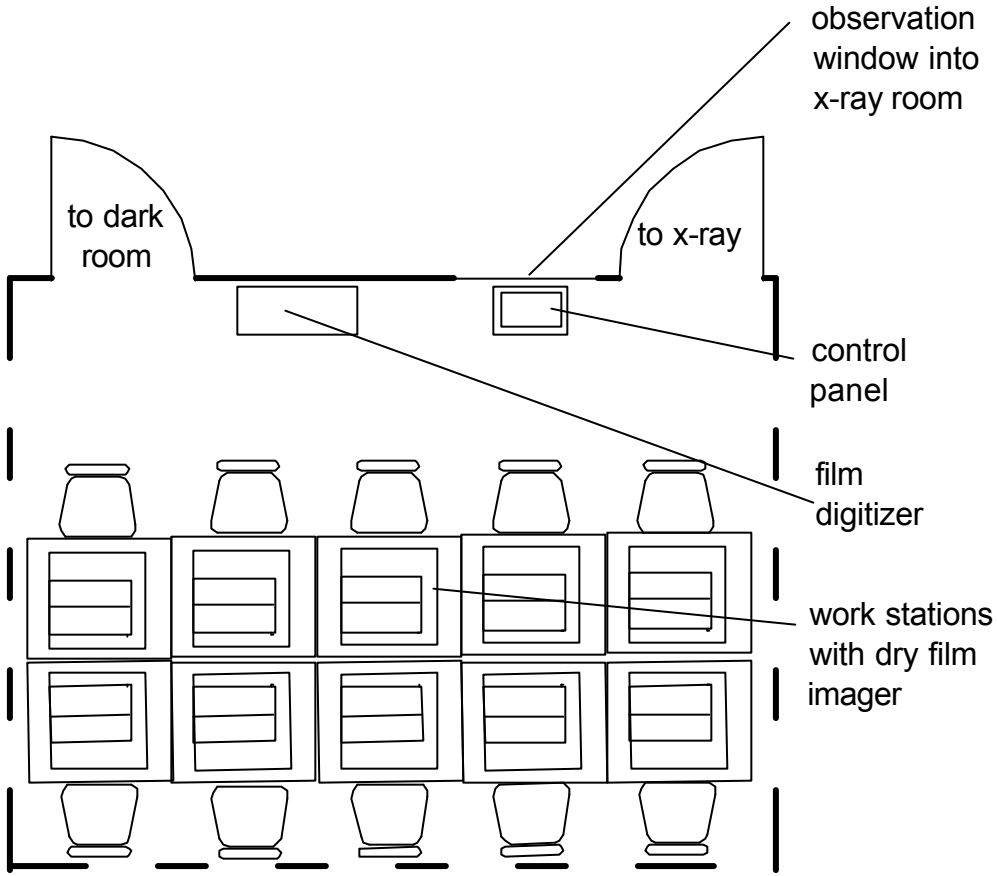
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	observation window into x-ray room, lead-lined glass			36” x 36”
1	x-ray control unit			
	x-ray view box/ illuminator 6 x 6			
movable furnishings				
1	waste can			
5-10	work stations for digital readers			
5-10	work chairs, armless, on casters			
equipment				
5-10	digital x-ray readers			

space notes

Lighting may be a special concern in this area if students use both traditional viewbox/illuminators and CT readers, because the bright light emitted by illuminators can scatter and make CT screens difficult to read.



mammography lab

Salt Lake Community College

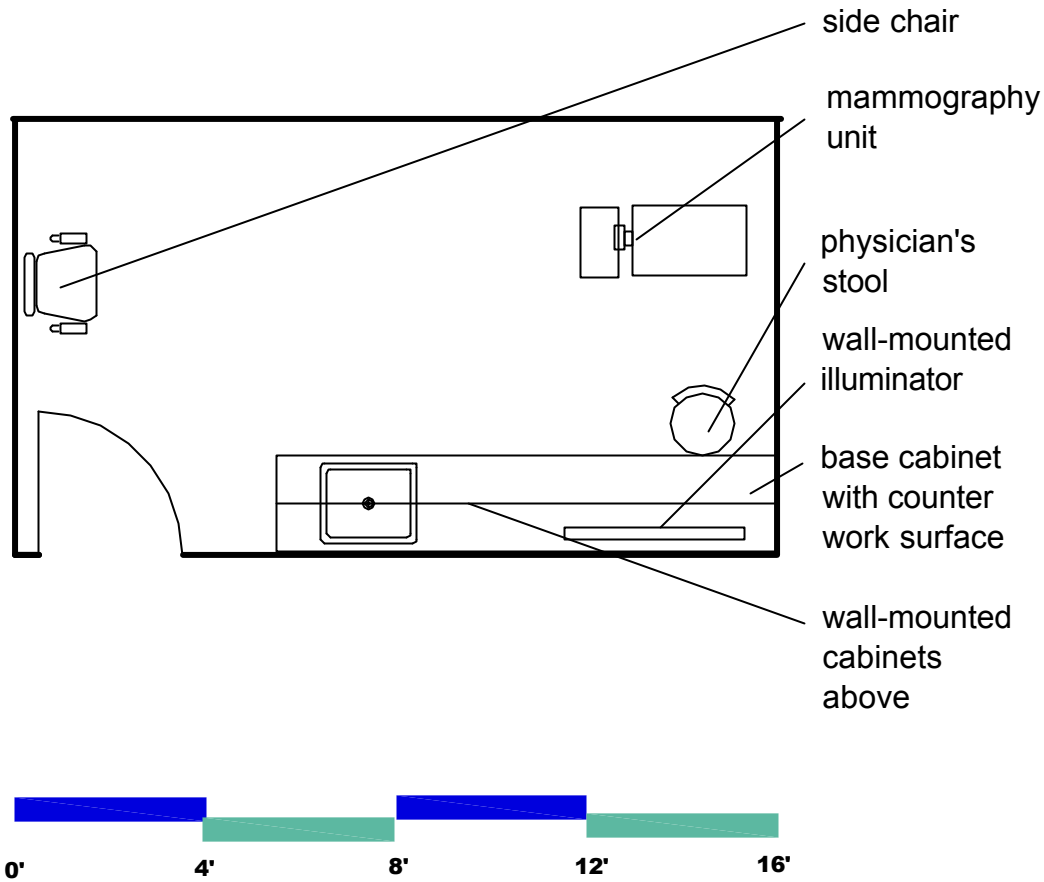
summary	
space type	simulated procedure lab
net sf each space	200
total of this type	1
assigned users	20
visitors	visiting professionals
functions	classroom instruction
location and relationships see drawing, page	
location	level 3
proximity	Radiology viewing areas, classroom, specialties classrooms, storage
access	faculty office and work areas may be shared by Medical Assisting and other programs
security	department control of equipment wireless keypad
finish see also Design Guidelines	
materials & finish	gypsum board, vinyl tile
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; dedicated circuit for ultrasound equipment
phone	Internet access
data	hook-ups for student laptops; link to CR network for image viewing
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector

lighting	
natural light	desirable with light control
foot candles	30 general; 75 for reading tasks
fixture types	indirect
task lights	no
controls	auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	may require lead shielding depending on equipment

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboards			48” x 72”
	ceiling projection mounts			
1	tack board			
movable furnishings				
1	side chair, upholstered, with arms			
1	work chair, armless, on casters			
1	waste can			14”
1	work surface			24” x 48”
equipment				
10	student laptops			
1	clock linked to campus master			
1	mammography unit with integral lead shield			dimensions vary with mnufacturer
1	desktop computer			
	models and demonstration equipment			

space notes

Approximately 120-144 sf is required for a standard mammography room. Additional space needed to allow students to observe.



changing area

summary	
space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	
functions	provide changing area for mammography

location and relationships	
location	level 3
proximity	adjacent to mammography lab
access	convenient access for students

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet, no slip tile painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity
data	none
video/tv	none

lighting	
natural light	not required
foot candles	30 general
fixture types	
task lights	no
controls	auto sensor

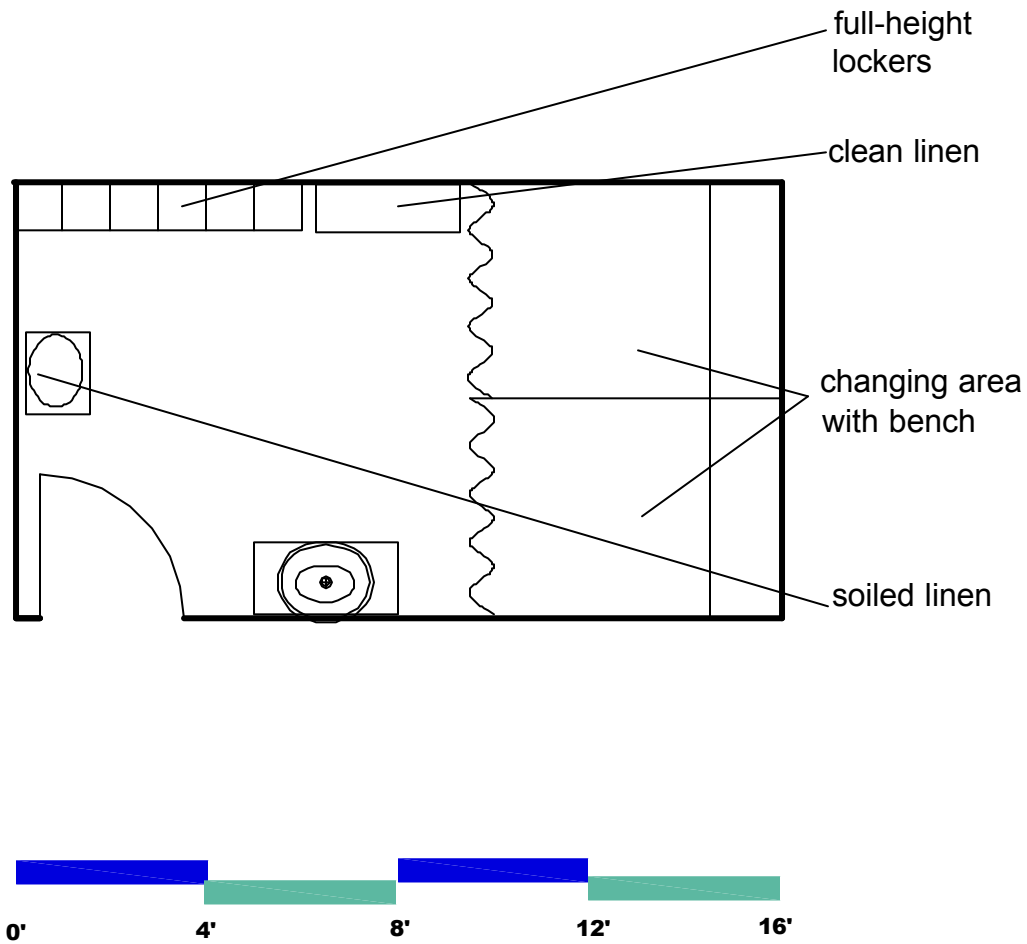
sound control	
stc	45-50
full sound walls	not required

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	lavatory

Salt Lake Community College

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	lavatory with base cabinet			
3	full height lockers			12” x 12”; 72” high plus base
3	changing booth with bench, hooks, and curtain			48” x 48”
1	rack for clean gowns			
1	wall-mounted mirror			
1	hamper for soiled gowns			
movable furnishings				
1	waste can			
1	locker bench			
equipment				
space notes				



faculty office

Salt Lake Community College

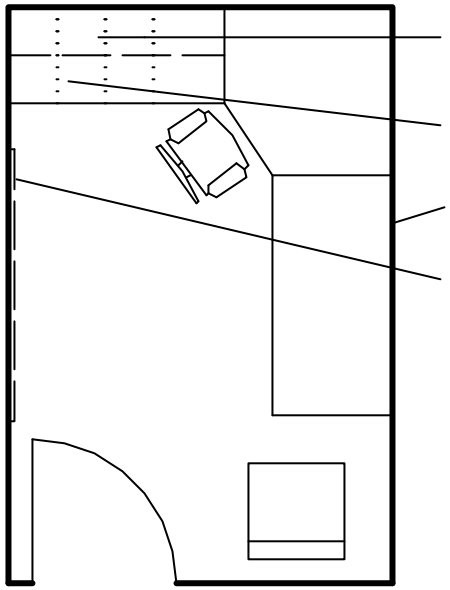
summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	3
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space
location and relationships	
location	level 3
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	wireless keypad
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface, angled corner			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
1	side chair, armless, upholstered			20” x 20” approx.
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.

adjunct work area

summary	
space type	enclosed shared work area
net sf each space	200 sf
total of this type	1
assigned users	2-3 adjunct faculty at a time
visitors	1-2 students
functions	professional work space for adjunct faculty who do not have assigned individual offices

location and relationships	
location	level 3
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students faculty access to labs and classrooms

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each work station
data	capacity for one computer and printer at each work station
video/tv	none

lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor

sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

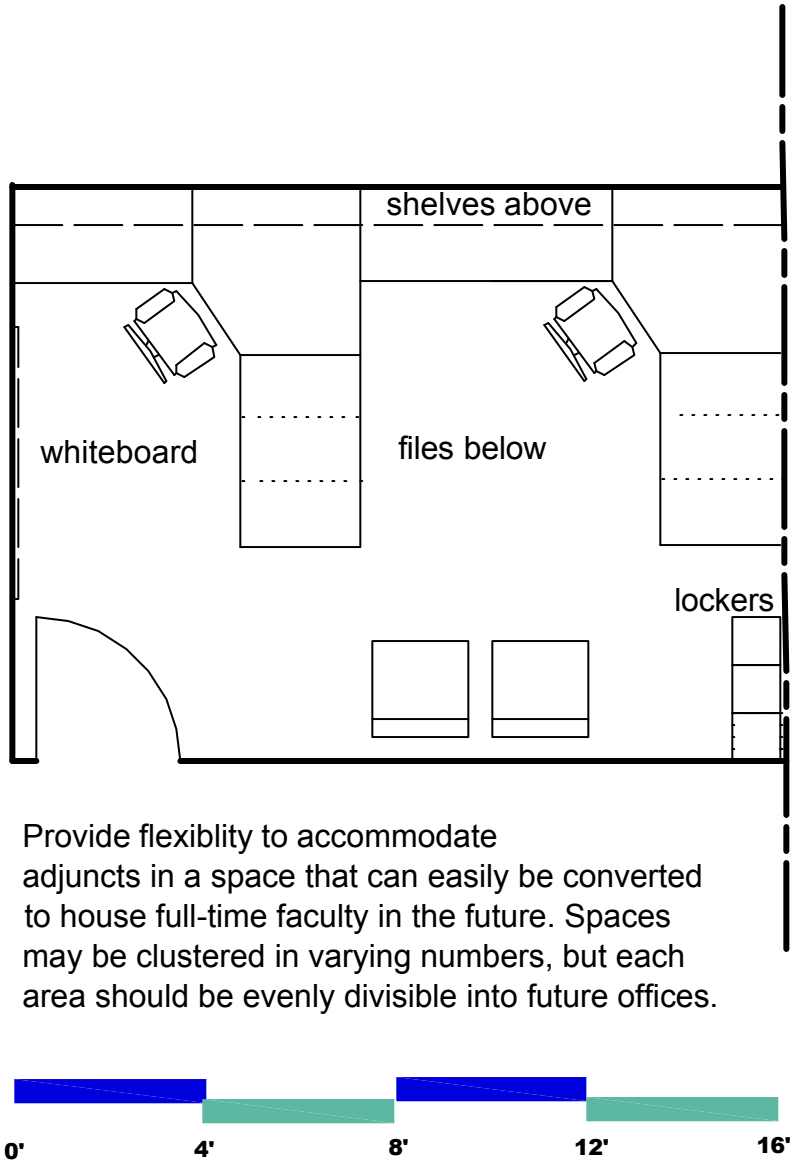
plumbing	
	none

Salt Lake Community College

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
	half-height lockers			12” x 12” x 36”
movable furnishings				
3	waste can			
3	work surface			30’ x 54”
3	letter size file pedestals			15” x 29”
3	work surface			30” x 30”
3	work surface, angled corner			
3	shelf unit, 4 shelves			12” x 60”
3	work station coat hook, tack surface, keyboard drawer			
3	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
2	side chair, armless, upholstered			20” x 20” approx.
equipment				
3	desltop or laptop computer			
1	computer printer			
	capacity for users’ personal electronic items			

space notes

Adjunct spaces may be combined to create larger work-rooms shared by adjuncts from more than one department. Lockers for all adjunct areas on a floor may be clustered in or adjacent to work and break areas.



Provide flexiblity to accommodate adjuncts in a space that can easily be converted to house full-time faculty in the future. Spaces may be clustered in varying numbers, but each area should be evenly divisible into future offices.

Salt Lake Community College

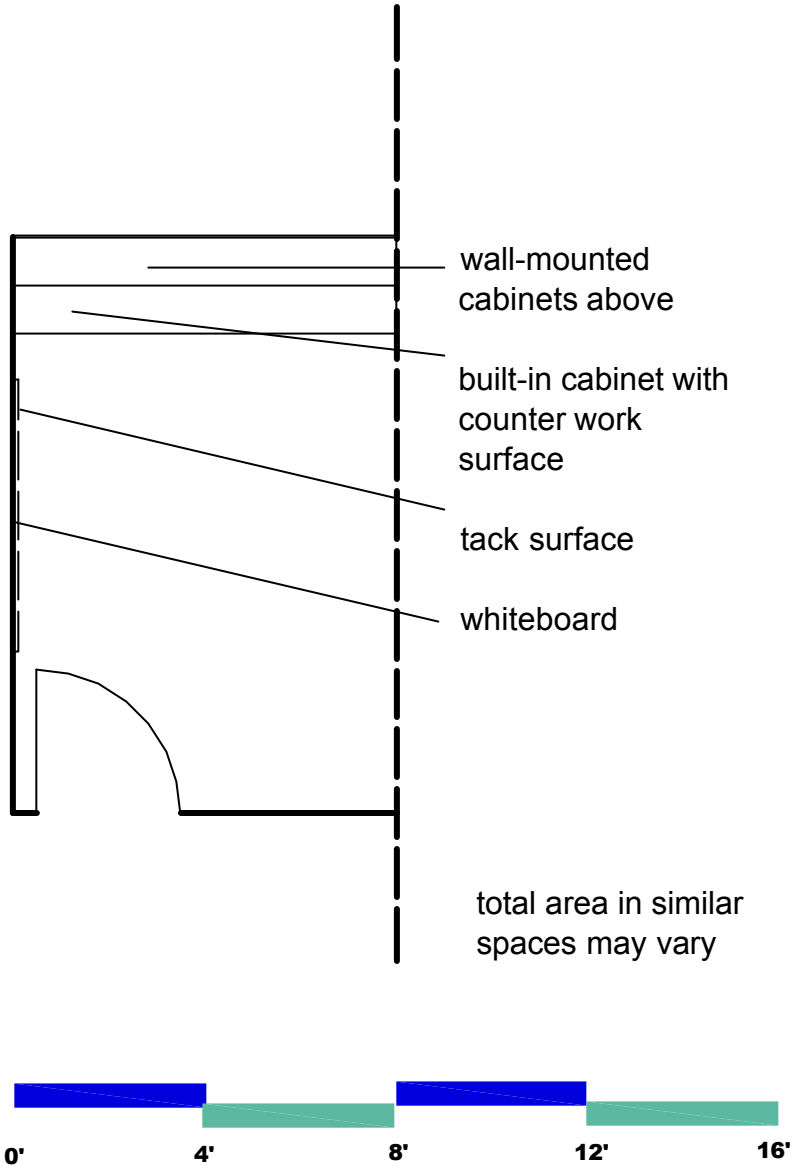
summary	
space type	department storage
net sf each space	300
total of this type	1
assigned users	0
visitors	students and instructors
functions	store program suppplies and small equipment
location and relationships	
location	level 3
proximity	radiologic technology labs and classrooms
access	radiologic technology faculty
security	department control of equipment wireless keypad
finish see Jordan Campus Design Guidelines	
materials & finish	painted gypsum board static-free carpet or hard-surface flooring
electrical plus capacity for equipment listed below	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity for future use
data	capacity for future use
video/tv	not required

lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 10’
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 10’
1	tack board / tack surface			
movable furnishings				
1	waste receptacle, small			
2-4	file cabinet, 4 drawer, letter size			
	x-ray files			
equipment				
1	photocopier			
1	fax			

space notes

The program needs space to store student files, large-format x-ray files, mannikins and models, rference materials, and equipment such as lead aprons, gloves, shields, and stretchers.



slcc jordan campus health sciences center

Salt Lake Community College

surgical technology
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Salt Lake Community College

#	space	user capacity	quantity	nsf each	total nsf	total unassign-able sf	total gsf
01	Classroom	20	1	600	600		600
02	Operatory Lab	20	1	1,600	1,600		1,600
03	Faculty Office	1	1	100	200		200
04	Adjunct Work Space		1	150	200		200
05	Small Conference / Faculty Growth		1	200	200		200
06	Storage		1	200	200		200
07	Scrub / Sterile Prep		1	600	600		600
TOTALS					3,450		3,450

Salt Lake Community College

surgical technology program

Salt Lake Community College

summary

space type	classroom
net sf each space	600
total of this type	1
assigned users	20 students
visitors	visiting professionals
functions	classroom instruction

location and relationships see drawing, page

location	level 3
proximity	sterile prep area
access	medical assisting radiologic technology
security	department control of equipment and models wireless keypad

finish see also Design Guidelines

materials & finish	gypsum board, vinyl tile

electrical plus capacity for equipment listed below

power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector; instructor podium
phone	Internet access
data	hook-ups for student laptops; instructor podium -- 3 network connections, 1-2 outlets on surface, permanent computer, input for laptop; ceiling location for projector
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector

lighting

natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard; direct light on instructor area; avoid conflict with sight lines for projection
task lights	at instructor podium
controls	at instructor podium auto sensor

sound control

stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

mechanical

outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
med gases	none
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

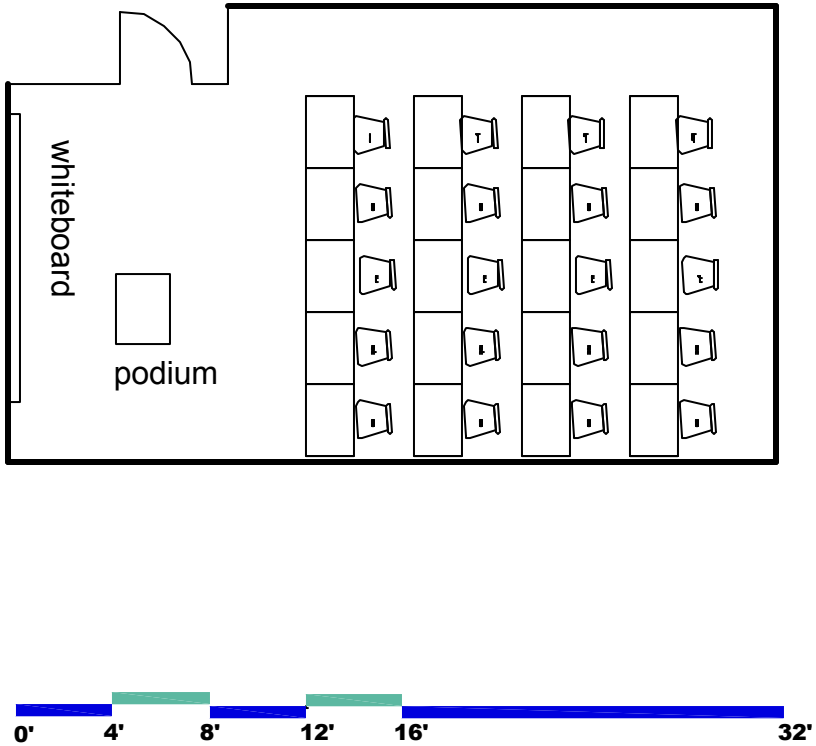
plumbing

	none

hazardous materials	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor podium			
4	whiteboards			48” x 144”
1	projection screen			48” x 60”
	ceiling projection mounts			
	tack strips			
	tack boards			
movable furnishings				
20	student desks			20” x 36”
20	student chairs, armless, on casters			
2	waste cans			14”
equipment				
20	student laptops			
1	clock linked to campus master			
1	VCR			
1-2	DVD players			
1	document camera			
1	permanent in-room computer			
1	switching system			
	audio speakers			
	audio amplifier if needed			

space notes



Salt Lake Community College

summary	
space type	simulated health care space
net sf each space	1,600
total of this type	1
assigned users	20 students
visitors	visiting professionals
functions	experiential learning and skill development
location and relationships see drawing, page	
location	level 3
proximity	surgical technology classroom sterile prep locker/ shower/ change
access	medical assistants nursing
security	department control of equipment and models wireless keypad
finish see also Design Guidelines	
materials & finish	gypsum board, vinyl tile
electrical plus capacity for equipment listed below	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector
phone	Internet access
data	hook-ups for student laptops; instructor podium -- 3 network connections, 1-2 outlets on surface, permanent computer, input for laptop; ceiling location for projector EDNET send / receive capacity
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector
lighting	
natural light	not required
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard; direct light on instructor area; avoid conflict with sight lines for projection
task lights	2 hospital operatory lights
controls	at instructor podium auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
med gases	none
summer design temp	75° F
winter design temp	72° F

controls	DDC, individual thermostat
plumbing	
	sink
hazardous materials	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor podium			
2	whiteboard			48” x 144”
1	projection screen			48” x 60”
	ceiling projection mounts			
	tack strips			
1	laser demonstration station			
	tack boards			
2	suction canister sets, wall-mounted			
movable furnishings				
6	physicians stools, on casters			
2	case carts			
2	minimally invasive surgery stations, movable posts, w/ camera, scope, light, and monitor			
2	waste cans			14”
equipment see department equipment lists for details				
20	student laptops			
1	clock linked to campus master			
1	VCR			
1-2	DVD players			
1	document camera			
1	permanent in-room computer			
1	switching system			
	audio speakers			
	audio amplifier if needed			
2	electrohydraulic OR tables with accessories			
2	back tables			
6	single ring stands			
2	double ring stands			
2	Mayo stands			
2	Bovie			
2	OR lights			
1	k-thermia machine			
1	microscope			
1	blanket and solution warmer			
1	light source and head light			
1	steris unit			
2	stretchers			
6	lifts			
1	laser			
1	anaesthesia machine			
1	defibrillator			
1	endoscopy tower			
1	power saw			

1	power drill			
1	power reamer			
	misc. equipment and accessories			
2	adult mannikins			
1	child mannikin			

space notes

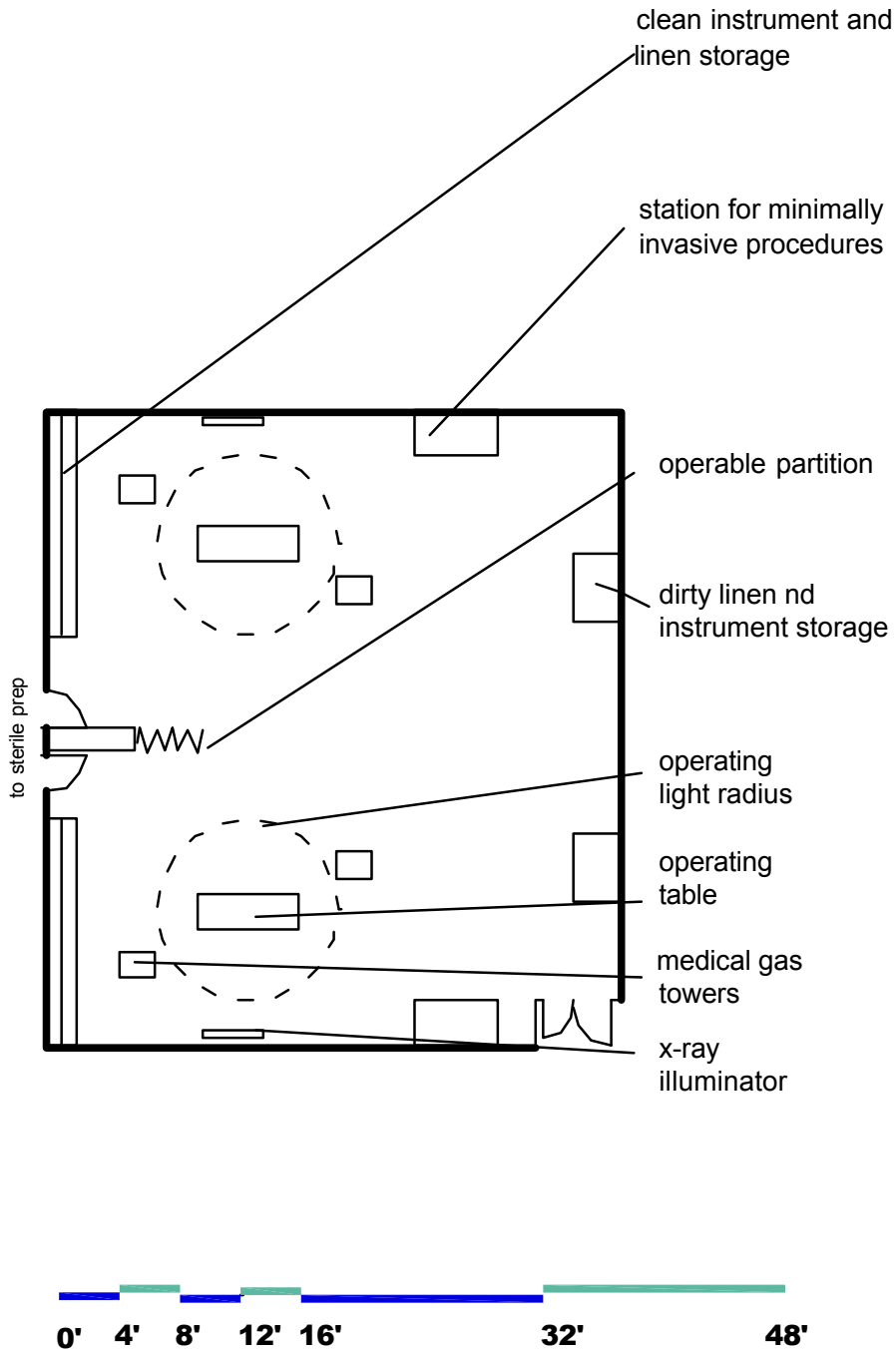
Will require space for demonstration materials such as mannikins, skeletons, and models.

Ceiling structure must be designed to support operatory lights.

Space should provide two operating table set-ups with space for students to observe. The ideal space would resemble actual current hospital operating rooms as closely as possible.

Space should be set up to allow broadcast of live feeds from operating rooms at IASIS, IHC, and other health care providers.

Salt Lake Community College


clean instrument and
linen storage
station for minimally
invasive procedures
operable partition
dirty linen nd
instrument storage
to sterile prep
operating
light radius
operating
table
medical gas
towers
x-ray
illuminator
0'
4'
8'
12'
16'
32'
48'

faculty office

Salt Lake Community College

summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	2
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space

location and relationships	
location	level 3
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	wireless keypad

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
vcp	70
controls	auto sensor

sound control	
nc/rc	30
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

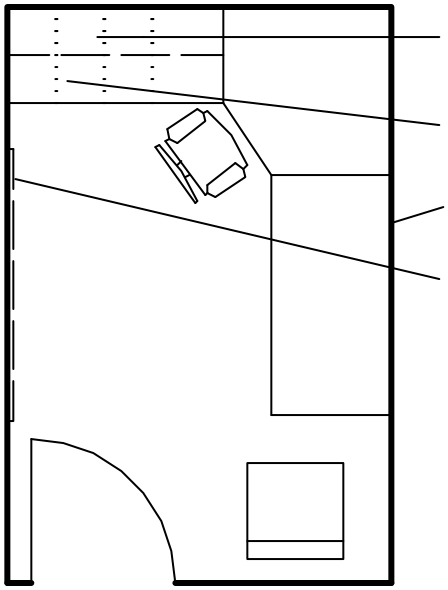
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract y	in contract n	dimensions
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30’ x 60”
1	work surface			24” x 60”
1	work surface			24” x 30”
1	work surface, angled corner			24” x 30”
3	letter size file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
1	side chair, armless, upholstered			20” x 20” approx.
equipment				
1	desltop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.

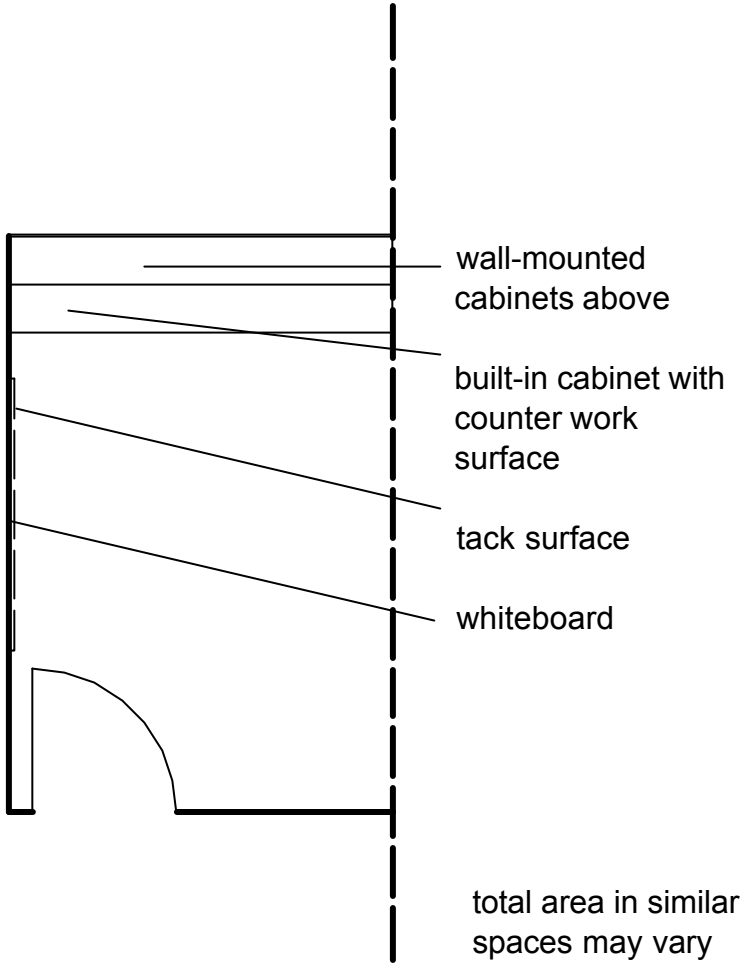
Salt Lake Community College

summary	
space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	6-8
functions	small conference area that can be converted for future faculty or adjunct work space
location and relationships	
location	level 3
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students and faculty
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each potential future work station area
data	capacity for one computer and printer at each future work station
video/tv	none
lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	capacity for future office use
controls	auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
movable furnishings				
1	waste can			
1	library reading table			36” x 72”
6	side chair, armless, upholstered			20” x 20” approx.
equipment				
	capacity for 8 laptops and for desktops at future office work stations			
	capacity for printer to serve future office uses			
	capacity for users’ personal electronic items			

space notes

Spaces may be combined with those from other departments to create larger conference/work areas, provided that the configuration will support future conversion to faculty office or adjunct space as programs grow. This capacity will be critical to allow the building to remain functional in the future; lack of faculty space is the major spatial obstacle to program expansion.



adjunct work area

Salt Lake Community College

summary	
space type	enclosed shared work area
net sf each space	200 sf
total of this type	1
assigned users	2-3 adjunct faculty at a time
visitors	1-2 students
functions	professional work space for adjunct faculty who do not have assigned individual offices

location and relationships	
location	level 3
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students faculty access to labs and classrooms

finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board

electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each work station
data	capacity for one computer and printer at each work station
video/tv	none

lighting	
natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor

sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

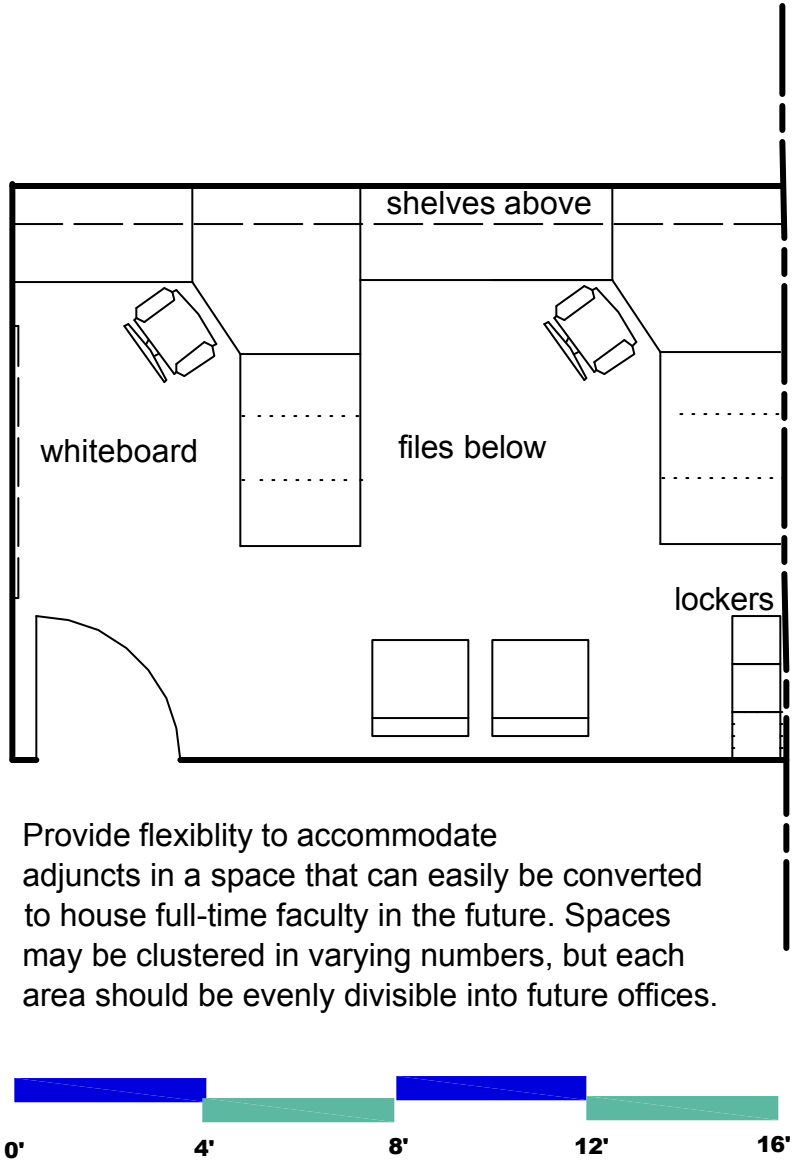
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48” x 36”
	half-height lockers			12” x 12” x 36”
movable furnishings				
3	waste can			
3	work surface			30’ x 54”
3	letter size file pedestals			15” x 29”
3	work surface			30” x 30”
3	work surface, angled corner			
3	shelf unit, 4 shelves			12” x 60”
3	work station coat hook, tack surface, keyboard drawer			
3	work chair, arms, swivel, adjustable, on casters			27” x 28” approx.
2	side chair, armless, upholstered			20” x 20” approx.
equipment				
3	desltop or laptop computer			
1	computer printer			
	capacity for users’ personal electronic items			

space notes

Adjunct spaces may be combined to create larger work-rooms shared by adjuncts from more than one department. Lockers for all adjunct areas on a floor may be clustered in or adjacent to work and break areas.



Provide flexiblity to accommodate adjuncts in a space that can easily be converted to house full-time faculty in the future. Spaces may be clustered in varying numbers, but each area should be evenly divisible into future offices.

storage

Salt Lake Community College

summary

space type	department storage
net sf each space	200
total of this type	1
assigned users	0
visitors	students and instructors
functions	store program suppplies and small equipment

location and relationships

location	level 3
proximity	operatory lab surgical technology classroom
access	convenient access for department faculty
security	wireless keypad

finish

see Jordan Campus Design Guidelines

materials & finish	painted gypsum board static-free carpet or hard-surface flooring

electrical

plus capacity for equipment listed below

power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity for future use
data	capacity for future use
video/tv	not required

lighting

natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor

sound control

stc	30
full sound walls	not required

mechanical

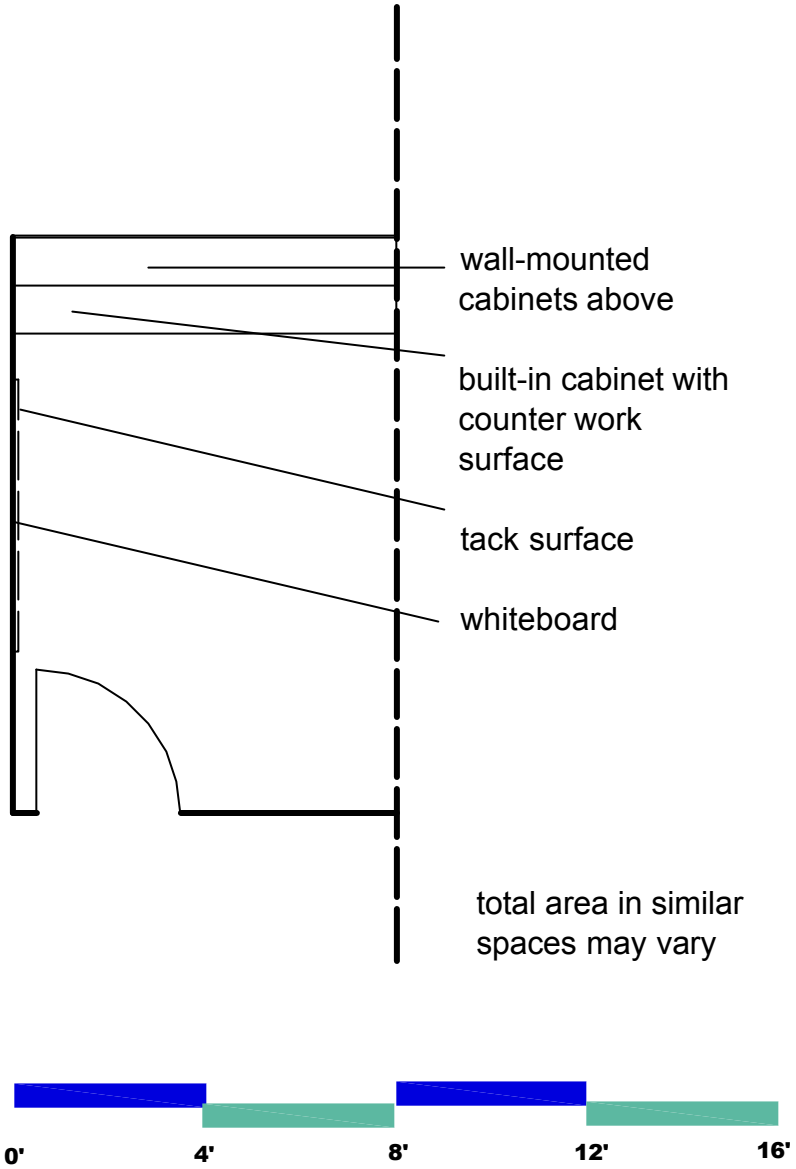
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

none

hazardous materials

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24” x 10’
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12” x 10’
1	tack board / tack surface			
10 lf	open adjustable shelving			12” x 10’
movable furnishings				
1	waste receptacle, large			
equipment				
1	photocopier			
1	fax			
space notes				



Salt Lake Community College

summary

space type	simulated health care space
net sf each space	600
total of this type	1
assigned users	20 students
visitors	visiting professionals
functions	experiential learning and skill development

location and relationships

see drawing, page

location	level 3
proximity	surgical technology operatory locker/ shower/ change
access	medical assistants nursing
security	department control of equipment wireless keypad

finish

see also Design Guidelines

materials & finish	gypsum board, vinyl tile ceramic tile

electrical

plus capacity for equipment listed below

power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector
phone	Internet access
data	capacity
video/tv	capacity

lighting

natural light	not required
foot candles	30 general; 75 for reading tasks; 100 in procedure areas
fixture types	direct/indirect general illumina- tion
controls	auto sensor

sound control

stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
med gases	none
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	hospital type scrub sinks steam autoclaves industrial type dishwasher utility sink

hazardous materials

	none, but should have facilties for disposal of simulated biohazard materials

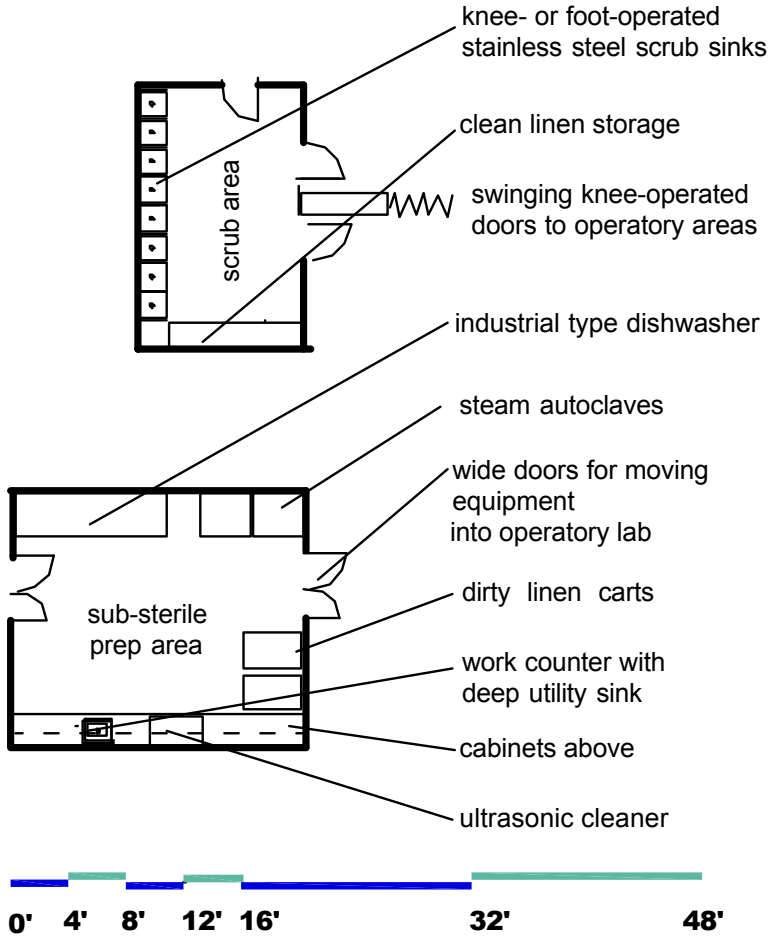
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
6-8	large hospital type scrub sinks with knee- or foot-activated controls, splash proof, temperature controlled			
2	swinging doors, knee-operated			
4-6 lf	storage shelving for clean linen			
1	work counter with deep utility sink for "dirty" materials			
movable furnishings				
	hampers or carts for disposal of dirty linen			
	biohazard disposal			
equipment see department equipment lists for details				
2	steam autoclaves			
1	industrial type dishwasher with capacity for large equipment			3' x 5 -10'
1	clock linked to campus master system			
1	ultrasonic cleaner			

space notes

This space includes both "clean" and "dirty" areas that need to be separated with traffic flows designed to prevent cross-contamination. It may be split into two separate area or sub-areas. It should be designed to replicate, as nearly as possible, actual hospital conditions that students are likely to encounter.

The "clean" area should include sinks and sterilization areas, a dressing area with storage for clean linen, and a sterile corridor passage to the OR. Autoclaves and other sterilization equipment should be placed in the "clean" sterile/sub-sterile area. This area may include a small dressing area, or may be located adjacent to student locker/shower/change areas.

The "dirty" space should include facilities for the disposal and washing of soiled linen, instruments, and equipment.



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