University of Colorado Denver

Instructional Lab Wing

PROGRAM PLAN | MAY 24, 2013

University of Colorado Denver
Office of Institutional Planning

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Study model created by Anderson Mason Dale Architects.

I. Executive Summary

The Instructional Lab Wing Building will address one of the University of Colorado Denver's most pressing needs- instructional laboratory space for the Departments of Integrative Biology and Chemistry. In 2006, the programming of the Auraria Science Building Addition and Renovation allowed for growth of 30% for each of these departments. Since that time, credit hour production in Chemistry has risen 89%, to 6,774 and Integrative Biology 55%, to 9,826. This tremendous growth has been driven by a variety of factors: Increasing interest in health careers majors, growth in declared majors in both Integrative Biology and Chemistry, and growth in other programs such as Public Health and Psychology that require biology and chemistry coursework. In addition, the new MS in Bioengineering (fall 2013) requires undergraduate laboratory work in both of these departments. Responding to growth in Integrative Biology and Chemistry and the programs they support is imperative if the University is to meet its stated goal of increasing undergraduate enrollment. Without the space provided for in this project, Integrative Biology and Chemistry will simply be unable to keep pace with their own growth and that of the many existing and new programs that rely on them.

The Instructional Lab Wing Building is envisioned to be a four story building that will connect to the Auraria Science Building on the west side, where much of Integrative Biology and Chemistry is currently located. The building will contain a mix of instructional labs, and other spaces needed to support new faculty hires such as research space and offices. The Health Careers Advising office, which arose to meet the needs of the growing health careers population, will also be located in the building. They currently have no dedicated space.

The building program totals approximately 23,500 assignable square feet, or 37,600 gross square feet. The projected cost is $18,925,954, and the project is to be funded by an equal percentage of university cash funds and state capital construction funding. Assuming that funding is allocated in FY 2014-15, the building would be completed and occupied in time for the fall 2017 semester.

View of Science Building and the North Classroom from downtown.

II. Introduction and Background

a. Institutional Background

i. History

In 1912, the University of Colorado established an extension division in Denver. In 1964, the extension division was renamed the University of Colorado Denver Center and was granted the authority to offer undergraduate and graduate degree programs. In 1973, the University Of Colorado Board Of Regents established the University of Colorado System to be led by a president and comprised of four distinct and independently accredited institutions: University of Colorado Boulder, University of Colorado at Denver, University of Colorado Colorado Springs and University of Colorado Health Sciences Center. In 1977, the University of Colorado at Denver moved to its current location in Downtown Denver as part of an innovative multi-institutional campus known as the Auraria Higher Education Center (AHEC). In 2004, the University of Colorado Board of Regents approved the consolidation of the University of Colorado at Denver and the University of Colorado Health Sciences Center into a single institution. The consolidated university was initially named the University of Colorado at Denver and Health Sciences Center, and subsequently in 2007, was renamed the University of Colorado Denver—one institution with two campuses. Within the last twenty years, the university has expanded downtown beyond the boundaries of the Auraria Campus and into the fabric of the city through strategic acquisition of real estate in the central business district.

Today, the Denver Campus of the University of Colorado Denver enrolls 14,271 students and employs 1,500 faculty members. Students can choose from among 134 degree programs housed within seven academic schools and colleges. CU Denver features the only college of architecture in Colorado and the largest graduate schools for business and education. CU Denver confers more graduate degrees that any other institution in Colorado.

ii. Mission and Vision

In 2007, the University of Colorado Denver undertook a strategic planning effort, the result of which was entitled Strategic Plan 2008-2020 University of Colorado Denver. The strategic plan contemplated the future of the university in the context of two major decisions that had been made in the previous ten years- building the Anschutz Medical Campus and consolidating the campus of the University of Colorado in downtown Denver with the campus of the Health Sciences Center.

The new mission for the university and the supporting narrative that were developed in the plan are below.

Mission

UC Denver is a diverse teaching and learning community that creates, discovers, and applies knowledge to improve the health and well-being of Colorado and the world.

The mission statement frames our commitment not just to teaching our students but also to their learning as part of a community. It emphasizes the educational richness that we believe comes from diversity of thought and experience. It emphasizes that the creation and discovery of knowledge must, where appropriate, be applied to the needs of

An architectural rendering of the Science Building at night.

communities and society, including their health, general well-being, and quality of life. It emphasizes that we seek not only to be seen as a world-class university but also to have a profound impact throughout Colorado and the nation through our service activities.

The strategic plan also offered a vision of what the University of Colorado Denver might look like in 2020. The vision and supporting narrative from the strategic plan are listed below.

Vision

By 2020, UC Denver will be a leading public university with a global reputation for excellence in learning, research and creativity, community engagement, and clinical care.

The vision statement is not modest. We have bold ambitions on behalf of the people of Colorado. We want them to have a leading public research university that has earned a global reputation for four interconnected cornerstones of excellence: teaching and learning, research and creativity, community engagement, and clinical care. Very few universities have accomplished all four. This is our vision to achieve.

The Instructional Lab Wing project will accommodate the growing needs of the departments of Integrative Biology, Chemistry and the Health Careers Advising Office. Information on each of these departments is provided below.

b. Programs to be Accommodated

i. Program Narratives

Integrative Biology

The Department of Integrative Biology offers graduate and undergraduate programs that help students build a solid foundation for professional careers in health and medicine; for academic, government, nonprofit or private sector careers in a wide range of disciplines from ecology and the environment to cell and molecular biology; and for fulfilling careers in secondary school science education.

Advances in technology and new discoveries in the fields of genetics, molecular biology, medicine, forensics, evolutionary biology, ecology and the environment make this an exciting time for biologists.

Biology students are taught fundamental core information that serves as a foundation for advanced study and professional training. This basic knowledge includes concepts such as DNA replication, transcription and translation, which are central to our understanding of molecular biology, as well as the relationship between structure and function, and the genetic mechanisms of inheritance. In addition, biology students are educated in cell biology and general genetics, and through these courses gain a state-of-field understanding of cell function and heredity, and some of the technological breakthroughs that have led to discoveries in these fields. They learn about ecological processes, including how organisms adapt to diverse environments and energy flow and nutrient cycles through ecosystems; worldwide biodiversity; and how ecological function can be altered by human impacts. From this diverse background information, students begin to comprehend the basic processes leading to evolutionary change, including the origin of life, adaptation, natural selection and speciation.

In addition, in the process of learning core information, biology students become well-versed in the critical skill sets of science: understanding and applying the Scientific Method, and learning to understand and critically evaluate the current scientific literature.

All faculty in Integrative Biology offer students the opportunity to work in research labs on joint or independent research projects. Students who work with faculty often have opportunities to present their research at local or national meetings, and may co-author research papers. Furthermore, internships related to various careers in biology are available through the university's Experiential Learning Center.

Programs Offered:

BS Biology
MS Biology
Biotechnology (Certificate)
PhD in Integrative and Systems Biology

Chemistry

Chemistry provides a solid foundation for further study in other related fields such as biochemistry, pharmacology, environmental science, geology and chemical engineering, all of which require a substantial chemistry background. Chemistry also provides a solid background for medicine and related fields such as dentistry and pharmacy.

With chemistry often called the "central science," a chemistry background is a powerful tool to launch you into

your career.

Programs Offered:

BS Chemistry
MS Chemistry
Minor in Chemistry

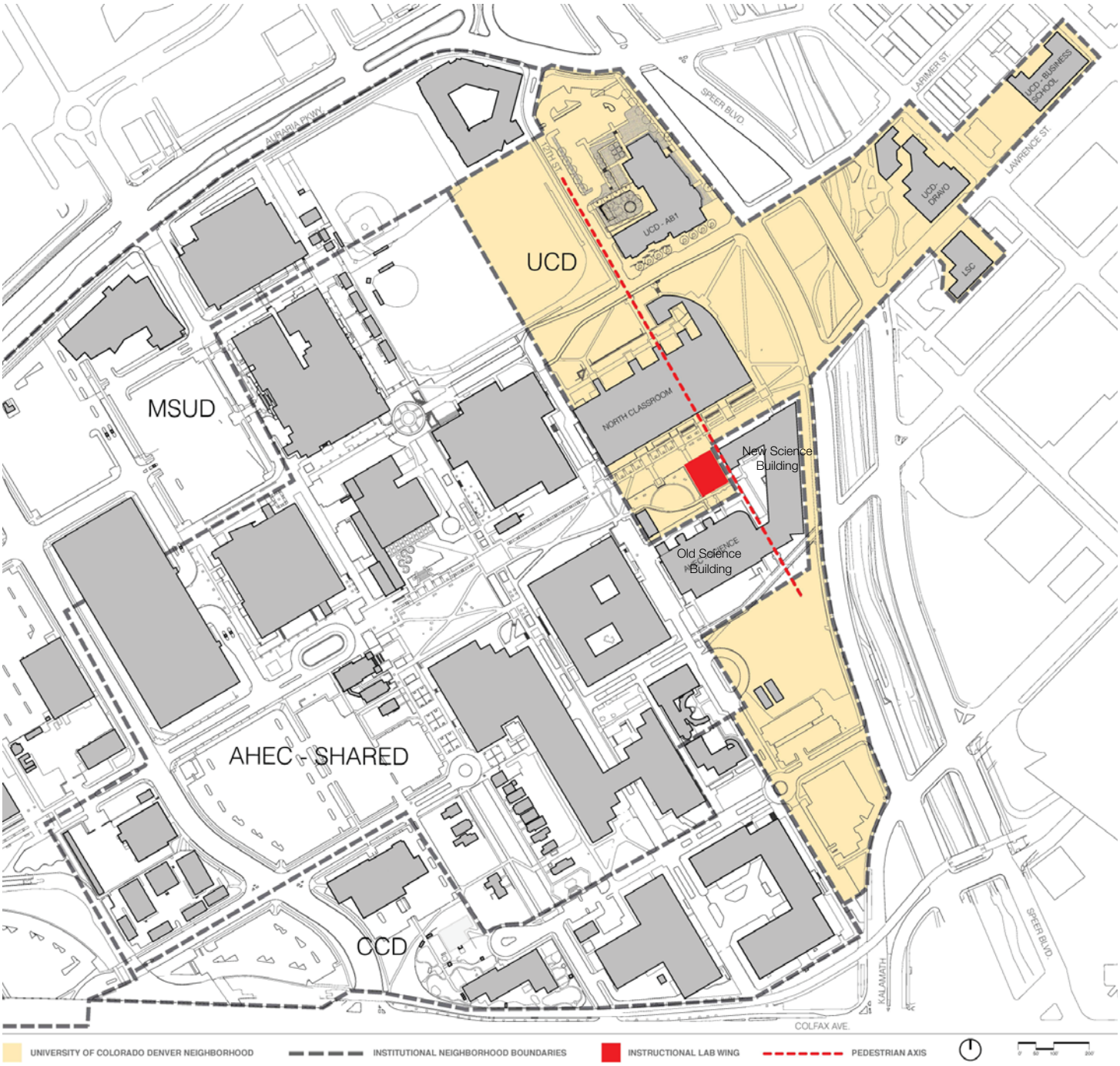
Health Careers Advising

The Health Careers Advising Office at the University of Colorado Denver provides critical career and academic advising services to the more than 2,000 students who have declared a major in one of the pre-health programs. These pre-health programs include Nursing, Dentistry, Physical Therapy, Physician, Physician Assistant, Pharmacy, Public Health, and Veterinary Medicine. The services that are provided by the Health Careers Advising Office include:

- General Academic Advising
- Specific Pre-health Careers Advising
- Institutional Letter
- Application Assistance
- Seminars/Workshops/Lectures on:
    - Institutional Letters
    - Personal Statement Strategies/Writing
    - Interviewing Workshops
    - New Freshman Pre-health Orientations
    - Spousal Seminars
    - Workshops for the "older/returning" student
    - Entrance Exam Prep Courses
- Life Coaching
- Referrals to numerous institutional student services (tutoring, counseling, test taking, disabilities office etc.)
- Weekly "reading"; a summary of news events in the medical professions
- Email list for distribution of important information

At present, there are two full-time staff dedicated to Health Careers Advising, two half-time staff, and one staff person who is appointed one-third to the office. Many of the staff are active faculty who balance their advising schedule with their teaching load. In the fall of 2012, the office saw a total of 1,167 students for a total of 1,426 visits (includes repeat visits). The Health Careers Advising office does not currently have any dedicated space, and operates out of space assigned to the Department of Integrative Biology.

The Science Building.


UCD
MSUD
AHEC - SHARED
CCD
New Science Building
Old Science Building
NORTH CLASSROOM
UCD - AB1
UCD - BUSINESS SCHOOL
UCD - DRAKO
LSC
AURARIA PKWY
SPEER BLVD.
LARIMER ST.
LAWRENCE ST.
17TH ST.
COLFAX AVE.
KALAMATH
UNIVERSITY OF COLORADO DENVER NEIGHBORHOOD
INSTITUTIONAL NEIGHBORHOOD BOUNDARIES
INSTRUCTIONAL LAB WING
PEDESTRIAN AXIS

Area Map

ii. Existing Space Summary

The Department of Integrative Biology and Department of Chemistry are both located in the Auraria Science Building on the Auraria Higher Education Center Campus. The Health Careers Advising Office does not currently have any dedicated space, and is housed within the Department of Integrative Biology. The area map on page 8 shows the location of the Auraria Science Building within the campus and in relation to downtown Denver. Though the Auraria Science Building is one structure, it is comprised of two distinct parts; the original 118,000 gross square foot building constructed in the 1970s and renovated in 2010, and the 195,000 gross square foot addition that was completed in 2009. The area map also illustrates this distinction between the two parts of the building.

The existing square footage currently assigned to Integrative Biology and Chemistry is provided below in four broad categories: instruction, office, research and other. A complete chart of existing space for these departments is provided in Appendix A.

Department of Chemistry Existing Space Inventory	
Instruction	10,006
Office	5,536
Research	11,316
Other	1,071
TOTAL	27,929

Department of Integrative Biology Existing Space Inventory	
Instruction	15,244
Office	6,996
Research	14,751
Other	-
TOTAL	36,991

Figure 1

The floor by floor diagrams on pages 10-14 illustrate the current alignment of space for both Biology and Chemistry broken down into the same categories: instruction, office, research and other.

Research laboratory.

Existing Space - Integrative Biology and Chemistry

SCIENCE BUILDING

BASEMENT

LEGEND

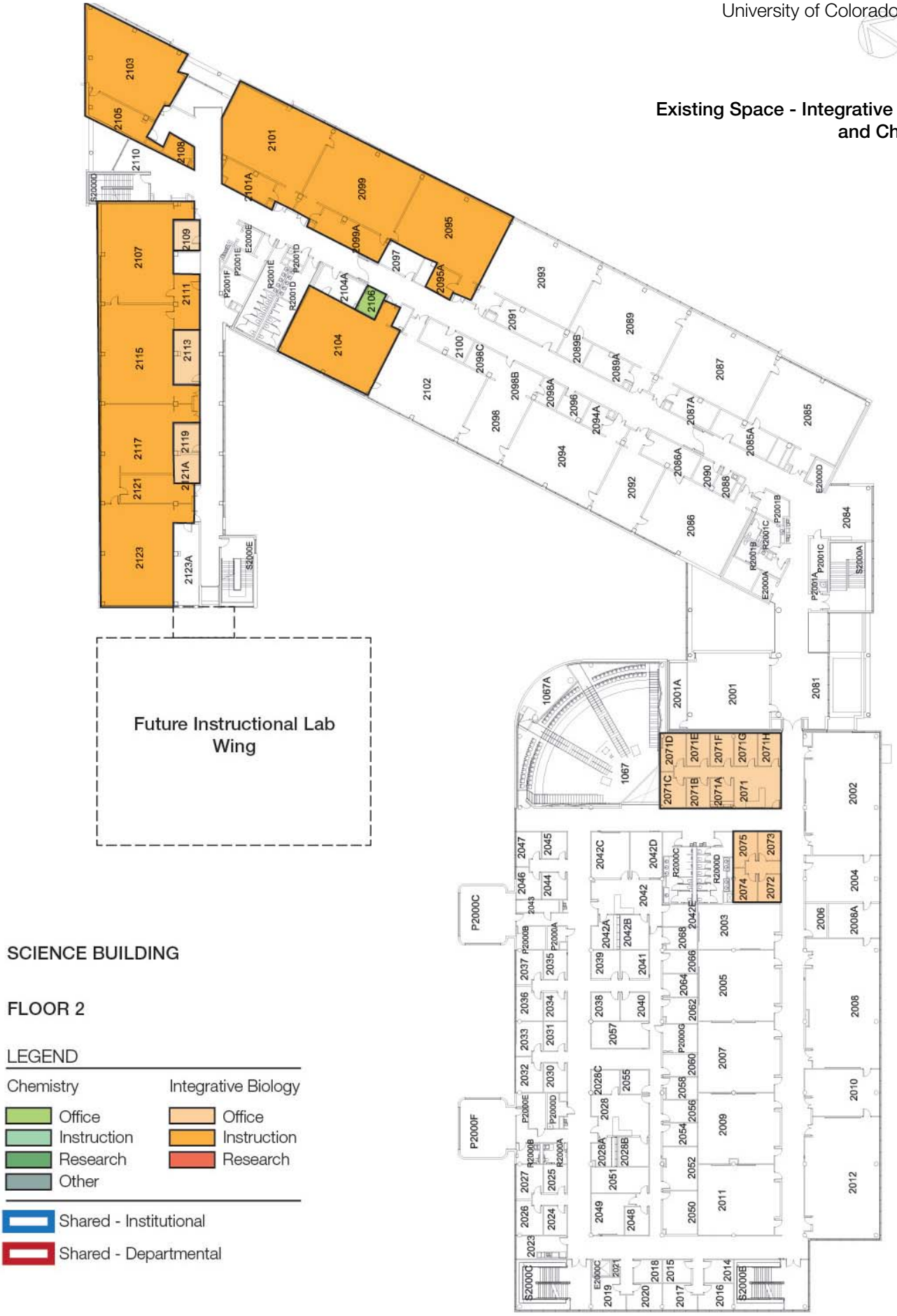
Chemistry	Integrative Biology
Office	Office
Instruction	Instruction
Research	Research
Other	

Shared - Institutional

Shared - Departmental

Existing Space - Integrative Biology and Chemistry

Existing Space - Integrative Biology and Chemistry



Existing Space - Integrative Biology and Chemistry

SCIENCE BUILDING

FLOOR 3

LEGEND

Chemistry	Integrative Biology
Office	Office
Instruction	Instruction
Research	Research
Other	

Shared - Institutional

Shared - Departmental

Existing Space - Integrative Biology and Chemistry

SCIENCE BUILDING

FLOOR 4

LEGEND

Chemistry	Integrative Biology
Office	Office
Instruction	Instruction
Research	Research
Other	

Shared - Institutional

Shared - Departmental

iii. Program Trends and Needs

Program Trends

In 2006, a program was being developed for the Auraria Science Building addition and renovation project. Although the new science building addition would open in 2009, the principles of assigning space in the project were laid out during this programming phase, and published in the program plan in January of 2007. The program plan laid out the following assumptions:

- Biology and Chemistry would be the top priority, but the programs from all three Auraria institutions had to be included.
- Those departments who resided in the Science Building at the time had to be included in the project, whether they were science-related or not.
- Due to the first two stipulations, the project could only provide for 30% growth in enrollment for Biology and Chemistry from the respective institutions.

The Departments of Integrative Biology and Chemistry at the University of Colorado Denver have far exceeded the growth that was allowed for in 2006. Both of these departments are at capacity in a number of their instructional labs, and they lack the office and research space necessary to hire the additional faculty to keep up with student demand. Research space also comprises an integral component of the undergraduate experience, as many undergraduate students are hired to work in research labs with tenured faculty. Several trends are fueling tremendous growth in these departments.

Increasing Interest in Health Careers Majors

Health careers majors rely on the Integrative Biology and Chemistry departments to provide their students with courses that are part of the required curriculum.

Growth in Pre-Health Majors 2006-2012				
	2006	2012	Growth- #	Growth- %
Pre-Dentistry	26	30	4	15%
Pre-Health/Medical Other	37	66	29	78%
Pre-Medical	163	360	197	121%
Pre-Nursing	141	237	96	68%
Pre-Pharmacy	72	96	24	33%
Pre-Veterinary	3	16	13	433%
TOTAL	442	805	363	82%

Figure 2. Source: Office of Institutional Research, Planning and Analysis

As illustrated in Figure 2, all of these programs have grown from 2006-2012, some of them significantly. Pre-medical majors have more than doubled during that time period, and collectively enrollments in these programs have grown 82%.

In addition to placing increasing pressure on Integrative Biology and Chemistry faculty and facilities, growing enrollments in health careers gave rise to the health careers advising office, which will anchor the ground floor of the Instructional Lab Wing Building.

Growth in Biology and Chemistry Majors

Growth pressures on Integrative Biology and Chemistry are not entirely external. As illustrated in Figure 3, since 2006 declared majors in the BS programs for these two departments have risen more than 50%. Integrative Biology majors alone now total 1,133.

Department of Chemistry Growth in Majors 2006-2012				
	2006	2012	Growth- #	Growth- %
BS Program	110	166	56	51%
MS Program	16	14	(2)	-13%

Department of Integrative Biology Growth in Majors 2006-2012				
	2006	2012	Growth- #	Growth- %
BS Program	755	1,133	378	50%
MS Program	27	27	0	0%

Figure 3. Source: Office of Institutional Research, Planning and Analysis

Growth in Other Programs that require Biology and Chemistry Coursework

The University of Colorado Denver has seen tremendous growth from 2006-2012 in several other majors that require Biology and Chemistry coursework. Perhaps the best example of this is Public Health, one of the fastest growing programs at the university. Public Health began in 2010

Growth in Degree Programs That Require Biology 2006-2012					
	2006	2010	2012	Growth- #	Growth- %
Public Health BA*	X	8	106	98	1225%
Public Health BS*	X	9	88	79	878%
Psychology BS	129	X	299	170	132%
TOTAL	X	146 **	493	347	

Figure 4. Source: Office of Institutional Research, Planning and Analysis

with 17 total majors in their BA and BS program combined. In just two short years, the combined enrollment for those programs has risen to 194. The BS in Psychology is another program that relies in Integrative Biology and Chemistry. Enrollment growth for this program and for Public Health are shown in Figure 4.

New Degree Program in Bioengineering

In September of 2012, The Board of Regents approved a new BS program in Bioengineering. The program is part of the College of Engineering and Applied Science. Students spend the first two years of the program taking lower division courses on the Denver campus, and the first students will arrive in the fall of 2013. The remainder of their four years is spent on the Anschutz Medical Campus.

The curriculum includes the following courses taught by integrative Biology and Chemistry:

Year 1:
General Chemistry Lecture and Lab
General Biology Lecture and Lab

Year 2:
Organic Chemistry Lecture and Lab

Although the program has yet to begin, similar programs around the country have done very well, and interest is expected to be high. There is growing concern that without additional instructional labs, Integrative Biology and Chemistry will be unable to accommodate the needs of the Bioengineering program.

Conclusion

The net effect of all of the growth trends outlined above is that credit hour production from the Departments of Integrative Biology and Chemistry have increased considerably since the programming of the Auraria Science Building Addition and Renovation in 2006. Student credit hour production in Chemistry has nearly doubled (growth of 89%) from 2006-2012, and Integrative Biology has increased by 55% during that same time period. The trend is expected to increase especially with the launch of the MS program in Bioengineering.

Department of Chemistry Student Credit Hour Growth 2006-2012				
	2006	2012	Growth- #	Growth- %
Chemistry	3,590	6,774	3,184	89%

Department of Integrative Biology Student Credit Hour Growth 2006-2012				
	2006	2012	Growth- #	Growth- %
Integrative Biology	6,342	9,826	3,484	55%

Figure 5. Source: Office of Institutional Research, Planning and Analysis

Needs

The needs of Integrative Biology and Chemistry can be summarized into three main categories:

1. Instructional Laboratories: These needs of both departments in this area are great, but there are specific laboratory disciplines within each department that are in particular danger of running out of capacity. When that happens, students get turned away or their matriculation through the program is delayed. The labs being requested in this project are the following:

   Chemistry
   General Chemistry (2)
   Organic Chemistry
   BioChemistry

   Integrative Biology

   General Biology
   Anatomy
   Physiology
   Microbiology

2. Research Laboratories: The need for research labs is driven by growth in the faculty. Continued growth in credit hour demand requires additional courses, and additional courses require additional faculty. Most of the faculty in Integrative Biology and Chemistry conduct research, often with the help of students. The research lab space requested in this project will allow faculty hires to keep pace with credit hour growth.

3. Office*:* Much like research labs, offices must be provided to the new faculty that will be hired to keep pace with growth. Neither Chemistry nor Integrative Biology currently have any vacant offices.

Health Careers Advising

Health Careers Advising currently resides in the Integrative Biology Department, and much of the staff are tenured faculty who must balance teaching with the increasing demands of running the advising center. It is anticipated that in the near future the Health Careers Advising office will be hiring more full-time staff who will concentrate all of the efforts on running the office. Providing a distinct home for

them will allow for this transition to occur, and will provide some space for future growth.

c. Relation to Academic or Institutional Strategic Plans

In 2007, the University of Colorado Denver began a strategic planning process with three primary intents:

1. To guide and to drive the University of Colorado Denver's strategic future

2. To respond to a request from the University of Colorado Board of Regents for a strategic plan from each of its three campuses

3. To serve as the foundation for the University of Colorado Denver's renewal of accreditation in 2010-11 by the Higher Learning Commission of the North Central Association of Colleges and Schools (NCA).

The process began with the appointing of a permanent group, the University Planning and Accreditation Committee (UPAC) which consisted of senior university officers and elected leadership of the faculty, staff, and students. The convening of the UPAC was followed by the appointment of seven task forces involving more than 200 faculty, staff, and students. Each task force focused on one of the following
areas:

- Mission, Vision, and Values
- Learning
- Discovery, Creativity, and Innovation
- Health Care
- Engagement
- Institutional Image and University Communications
- Resource Needs, Infrastructure, and Development

Strategic Plan 2008-2020 was formed using concepts developed by the task forces. That Plan was approved by the Board of Regents in January 2008 and again in March 2008.

The specific academic goals and objectives that are supported and advanced by the Instructional Lab Wing project are listed below. The goal and objective numbers are taken directly from the strategic plan document.

Goal 2.1 Deliver superior educational programs on multiple campuses and academic centers across the state, nation, and around the world.

Objective 2.1.1 Build and sustain superior education facilities and infrastructure.

The Instructional Lab Wing project advances this objective by providing high performing space to accommodate the growing need of Biology and Chemistry.

Objective 2.4.1 Increase the undergraduate student population to between 14,000 and 16,000 undergraduate students by 2020.

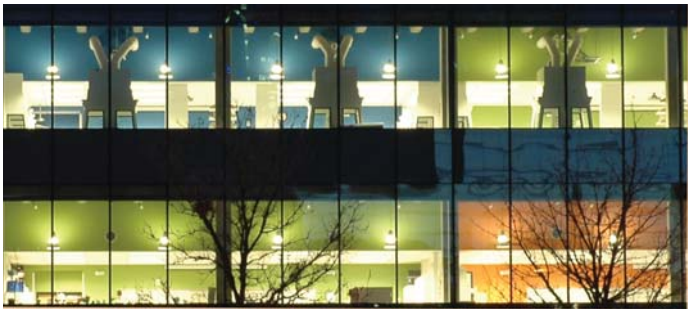
Instructional Lab Wing is a critical part of achieving this objective, as most of the growth that it will accommodate is occurring in the lower division courses, undergraduate for Biology and Chemistry. If this building is not funded, enrollment in Biology and Chemistry and the other departments they serve simply cannot grow.

Objective 2.4.3 Increase the percentage of undergraduate and graduate students who are full-time students.
Full time students place a greater credit hour demand on the academic facilities within any given semester than an equivalent number of less than full time students. Additional teaching space is critical to providing for this additional demand.

Goal 7.2 Invest in providing the infrastructure (services and facilities) necessary for a world-class learning and discovery environment for the benefit of our students, faculty, staff, and communities.

Objective 7.2.2 Implement the University of Colorado Denver facilities capital plan to provide cost-effective, adaptable, maintainable, sustainable, and accessible facilities.

Providing adequate infrastructure and facilities is at the heart of this project. The university maintains a ten year capital list that is well thought out and vetted and this project is on that list.



Looking inside the Science Building addition.

III. Facilities Need

a. Space Planning Assumptions

The following assumptions were made in the planning of the Instructional Lab Wing:

- **That Biology, Chemistry and Health Careers Advising would be the only occupants of the building.**

Early planning efforts included Physics and Psychology, who have significant space needs of their own. However, given the site limitations and the tremendous needs of Integrative Biology and Chemistry, Psychology and Physics simply could not be included in the project.

- **That the Instructional Lab Wing design would maintain the Instructional Lab and Research Lab dimensions of the Auraria Science Building.**

Auraria Science Building instructional labs were designed in 1200 assignable square foot modules to accommodate 24 students. This has been a successful teaching model. The research labs in the Auraria Science Building were designed on a similar 1200 assignable square foot module and programmed to accommodate two researchers. This module will be repeated in Instructional Lab Wing, with consideration given to increasing the occupancy of the 1200 asf module to include more than two researchers.

b. Total Space Requirement

The total space requirement to be accommodated in the project is provided in the chart on page 19. The chart is split between the three occupants of the building; Integrative Biology, Chemistry and Health Careers Advising. The largest component is instructional laboratories.

University of Colorado Denver
Instructional Lab Wing Program

Room Number		Space name	ASF/Station	Stations/Room	Room Size	Quantity	Area
Integrative Biology							**10176**
U.B.1.0		**Office Space**					**600**
	U.B.1.1	Chair/Director					0
	U.B.1.2	Faculty Office	120	1	120	5	600
U.B.2.0		**Classrooms**					**0**
U.B.3.0		**Laboratories**					**5076**
	U.B.3.1	General Biology Teaching	53	24	1272	1	1272
	U.B.3.2	Anatomy Teaching	63	20	1260	1	1260
	U.B.3.3	Physiology Teaching	53	24	1272	1	1272
	U.B.3.4	Microbiology Teaching	53	24	1272	1	1272
U.B.4.0		***Research Lab***	**600**	**2**	**1200**	**3**	**3600**
U.B.5.0		**Lab Service**					**900**
	U.B.5.1	Prep Room	300	1	300	3	900
U.B.6.0		**Storage**					**0**
Chemistry							**10488**
U.C.1.0		**Office Space**					**600**
	U.C.1.1	Chair/Director					0
	U.C.1.2	Faculty Office	120	1	120	5	600
U.C.2.0		**Classrooms**					**0**
U.C.3.0		**Laboratories**					**5088**
	U.C.3.1	General Chemistry Teaching	53	24	1272	2	2544
	U.C.3.2	Organic Chemistry Teaching	53	24	1272	1	1272
	U.C.3.3	Biochemistry Teaching	53	24	1272	1	1272
U.C.4.0		**Research Lab**	**600**	**2**	**1200**	**3**	**3600**
U.C.5.0		**Lab Service**					**1200**
	U.C.5.1	Prep Room	300	1	300	2	600
	U.C.5.2	Instrument Room	300	1	300	2	600
U.C.6.0		**Storage**					**0**
Health Careers Advising							**1260**
U.H.1.0		**Office Space**					**1260**
	U.H.1.1	Chair/Director	160	1	160	1	160
	U.H.1.2	Administrative Office	120	1	120	3	360
	U.H.1.10	Administrative Assistant	120	1	120	1	120
	U.H.1.11	Conference	25	8	200	1	200
	U.B.1.12	Work/Copy/Print	120	1	120	1	120
	U.B.1.13	Reception	40	5	200	1	200
	U.B.1.14	Records					0
	U.B.1.15	Breakroom					0
	U.B.1.16	General Storage	100	1	100	1	100
Shared							1650
U.S.1.0		**Computing Lab**	**33**	**50**	**1650**	**1**	**1650**
TOTAL						**ASF**	**23574**
						GSF	**37600**

Source: Office of Institutional Planning

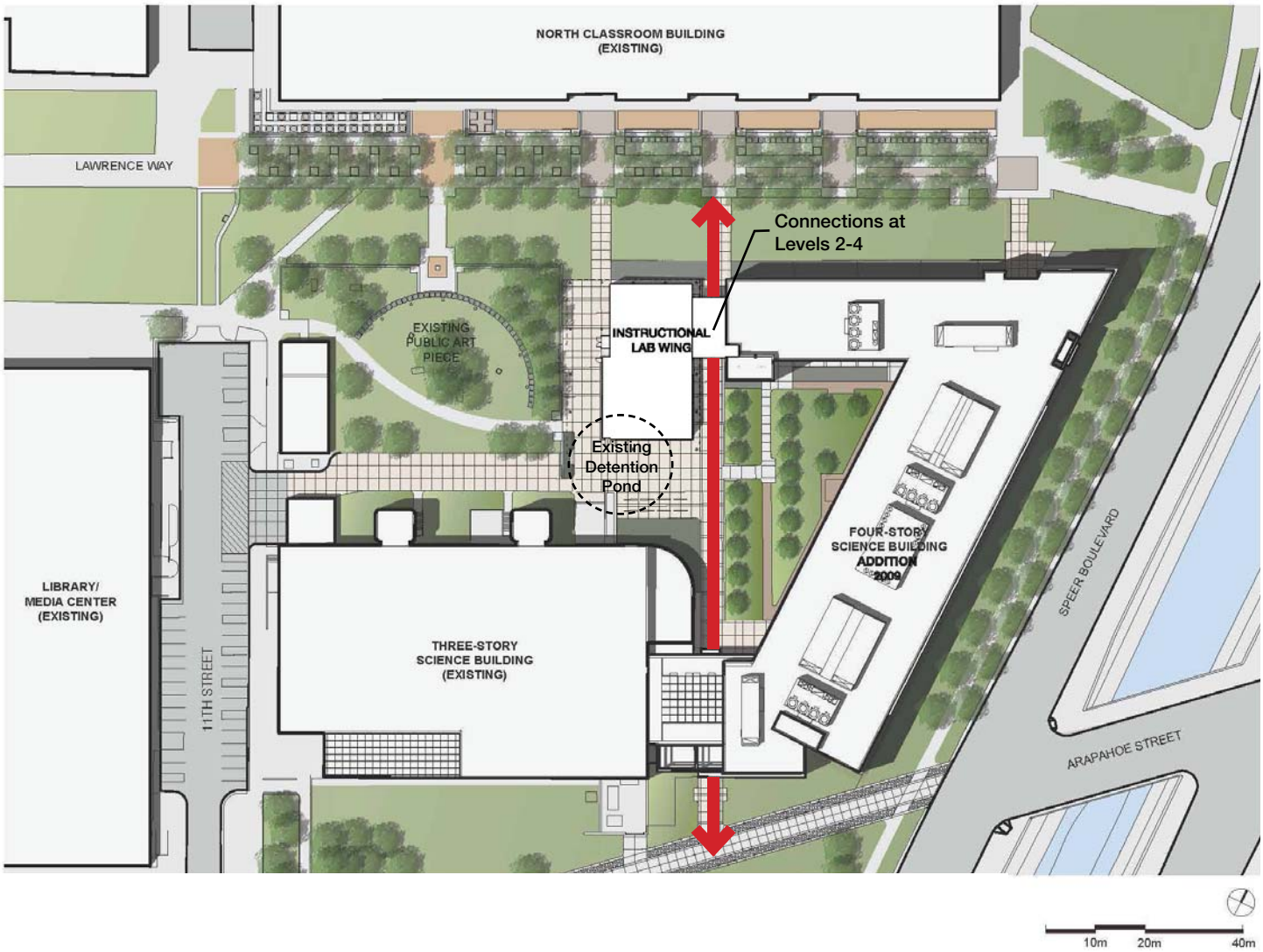
IV. Project Description

a. Building Site

The site selected for this project is directly adjacent to the science building addition that was completed in 2009. A site illustration is provided on page 21.

The site was selected because of its proximity to the Auraria Science Building, which is home to the Departments of Integrative Biology and Chemistry. The proximity to the Science Building will allow for a direct connection between the Instructional Lab Wing and the Auraria Science Building on levels two, three and four. The connection has two advantages. The first is that it allows the instructional lab wing building to use the existing stairwell in the Auraria Science Building to satisfy some of the exiting requirements for the instructional lab wing building. The second is that it provides a direct connection for faculty, staff and students from one building to another. This is particularly effective because as illustrated previously in the existing space summary, much of the biology and chemistry space in the Auraria Science Building is located at the end of the building that would connect to the Instructional Lab Wing. By leaving the ground floor open between the Auraria Science Building and Instructional Lab Wing, the building maintains and even reinforces a major UC Denver neighborhood axis. That concept is depicted on the site illustration.

The parameters of the site were defined to some degree by a large art illustration that lies to the west of the Auraria Science Building. One of the goals in defining the site area was to accommodate the building program without having to take down or relocate the art installation. In should also be noted that a portion of the proposed site currently acts as a storm water detention area for the Auraria Science Building. This detention function will have to be provided for in a different location.


NORTH CLASSROOM BUILDING
(EXISTING)
LAWRENCE WAY
Connections at
Levels 2-4
INSTRUCTIONAL
LAB WING
EXISTING
PUBLIC ART
PIECE
Existing
Detention
Pond
FOUR-STORY
SCIENCE BUILDING
ADDITION
2009
SPEER BOULEVARD
LIBRARY/
MEDIA CENTER
(EXISTING)
11TH STREET
THREE-STORY
SCIENCE BUILDING
(EXISTING)
ARAPAHOE STREET
10m
20m
40m

b. Space Relationship Diagram

The following represent early efforts to arrange the program in the building to make the best use of the site and the Auraria Science Building adjacencies. Diagrams can be seen on page 23.

Floor 1: Heath Careers Advising has been located on floor 1 to promote an active street level environment and provide easy access to the offices for students. The shared computer teaching classrooms is anticipated to be a high use space and has a higher capacity than any of the instructional labs so a floor 1 location seems logical.

Floor 2: This floor is predominantly Integrative Biology, which takes advantage of the adjacency to the Integrative Biology space in the Auraria Science Building floor 2. Some Chemistry is included on this floor as there was not enough space on the third floor to accommodate all of the Chemistry instruction labs.

Floor 3: This floor is comprised of Chemistry teaching, which takes advantage of the adjacency to the Chemistry space in the Auraria Science Building floor 3, and Integrative Biology Research which was unable to fit on floor 4.

Floor 4: For security reasons, an effort was made to house all of the research space on floor 4, similar to what was done in the Auraria Science Building. However, the footprint of the building does not allow it. All of floor 4 is dedicated to research, but some research (Integrative Biology) will need to be on a different floor.

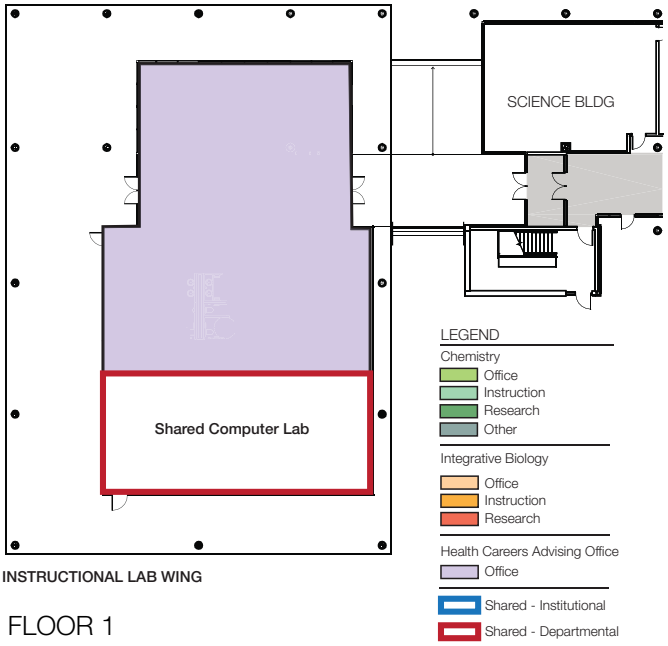
2009 study model created by Anderson Mason Dale Architects.

c. Building Mass and Articulation

Building massing will complement the surrounding context. The primary building façade will be oriented west towards Lawrence Way as a continuation of the urban street wall created by the Science Building. Its fenestration and exterior cladding will be sympathetic to the established vocabulary of the campus. Major compositional elements from the Auraria Science Building (datum lines, parapet elevations, colonnade rhythms, proportion of fenestrations) will be carried through into the façade design for this companion structure. The proposed four story building will step down to three stories on the east to respond to the massing of Auraria Science Building and to mitigate the potential loss of southern light into the courtyard that lies between these two buildings. Exterior detailing of the west façade will similarly respond to the vocabulary and datum expressed in the Auraria Science Building.

The structure will be elevated on pilotis to reduce the

buildings perceived overall mass and to allow for pedestrian circulation within the resultant colonnade environment of the first floor exterior spaces. Where Instructional Lab Wing meets the existing Science Building, the structure is held back to provide visual relief. The resulting gateway condition formed by this setback, in conjunction with the glass bridge connecting the two structures above, forms a dynamic pedestrian gateway between Lawrence Way and the Auraria Science Building courtyard. The primary entrance to the new building will be on the south façade and will be detailed to express itself as a continuation of this linear bridge through the new structure and on to the existing Science Building. The model on page 22 illustrates the building massing and some of the elements of the facade.



INSTRUCTIONAL LAB WING

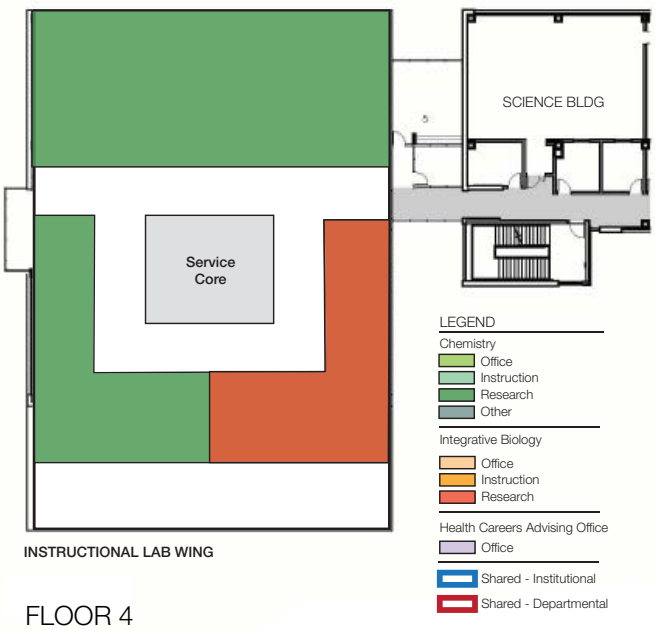
FLOOR 1

INSTRUCTIONAL LAB WING

FLOOR 3

INSTRUCTIONAL LAB WING

FLOOR 2



INSTRUCTIONAL LAB WING

FLOOR 4

CC-C: CAPITAL CONSTRUCTION REQUEST FOR FY 2014-15

Agency or Institution:	**University of Colorado Denver**	Signature Department or Institution Approval:	Date	
Project Title	Denver - Instructional Lab Wing	Signature CCHE Approval:	Date	
Project Year(s):	FY 2014-15	Signature OSPB Approval:	Date	
Agency or Institution Priority Number:	2	Name and e-mail address of preparer:	Mark Berthold mark.berthold@ucdenver.edu	

Revision? Yes☑ No☐ If yes, last submission date: July 2012		**Total Project Costs**	**Total Prior Year Appropriations**	**Current Request FY 2014-15**	**Year 2 Request**	**Year 3 Request**	**Year 4 Request**	**Year 5 Request**
A.	***Land Acquisition***							
(1)	Land /Building Acquisition	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -
B.	***Professional Services***							
(1)	Master Plan/PP	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -
(2)	Site Surveys, Investigations, Reports	$ 110,738	$ -	**$ 110,738**	$ -	$ -	$ -	$ -
(3)	Architectural/Engineering/ Basic Services	$ 1,707,576	$ -	**$ 1,707,576**	$ -	$ -	$ -	$ -
(4)	Code Review/Inspection	$ 80,000	$ -	**$ 80,000**	$ -	$ -	$ -	$ -
(5)	Construction Management	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -
(6)	Advertisements	$ 1,000	$ -	**$ 1,000**	$ -	$ -	$ -	$ -
(7a)	Inflation for Professional Services	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -
(7b)	Inflation Percentage Applied		0.00%	**0.00%**	0.00%	0.00%	0.00%	0.00%
(8)	Other (LEED Consultant)	$ 184,317	$ -	**$ 184,317**	$ -	$ -	$ -	$ -
(9)	*Total Professional Services*	$ 2,083,631	$ -	**$ 2,083,631**	$ -	$ -	$ -	$ -
C.	***Construction or Improvement***							
(1)	Infrastructure	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -
	(a) Service/Utilities	$ 312,600	$ -	**$ 312,600**	$ -	$ -	$ -	$ -
	(b) Site Improvements	$ 416,800	$ -	**$ 416,800**	$ -	$ -	$ -	$ -
(2)	Structure/Systems/ Components							
	(a) New (GSF): 37,600	$ 12,184,732	$ -	**$ 12,184,732**	$ -	$ -	$ -	$ -
	New $311/GSF							
	(b) Renovate GSF:	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -
	Renovate $_____/GSF							
(3)	Other (Security)	$ 131,600	$ -	**$ 131,600**	$ -	$ -	$ -	
(4)	High Performance Certification Program	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -
(5a)	Inflation for Construction	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -
(5b)	Inflation Percentage Applied		0.00%	**0.00%**	0.00%	0.00%	0.00%	0.00%
(6)	*Total Construction Costs*	$ 13,045,732	$ -	**$ 13,045,732**	$ -	$ -	$ -	$ -
D.	***Equipment and Furnishings***							
(1)	Equipment	$ 752,000	$ -	**$ 752,000**	$ -	$ -	$ -	$ -
(2)	Furnishings	$ 752,000	$ -	**$ 752,000**	$ -	$ -	$ -	$ -
(3)	Communications	$ 587,688	$ -	**$ 587,688**	$ -	$ -	$ -	$ -
(4a)	Inflation on Equipment and Furnishings	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -
(4b)	Inflation Percentage Applied		0.00%	**0.00%**	0.00%	0.00%	0.00%	0.00%
(5)	*Total Equipment and Furnishings Cost*	$ 2,091,688	$ -	**$ 2,091,688**	$ -	$ -	$ -	$ -
E.	***Miscellaneous***							
(1)	Art in Public Places=1% of State Total Construction Costs (see SB 10-94)	$ -	$ -	**$ 69,350**	$ -	$ -	$ -	$ -
(2)	Annual Payment for Certificates of Participation	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -
(3)	Relocation Costs	$ 133,317	$ -	**$ 133,317**	$ -	$ -	$ -	$ -
(4)	Other Costs [TAP fees]	$ 200,000	$ -	**$ 200,000**	$ -	$ -	$ -	$ -
(5)	Other Costs [Xcel & Gas Tap Fees]	$ 65,000	$ -	**$ 65,000**	$ -	$ -	$ -	$ -
(6)	Other Costs [Storm Water treatment device	$ 321,000	$ -	**$ 321,000**	$ -	$ -	$ -	$ -
(7)	Other Costs [Ground Lease]	$ 15,000	$ -	**$ 15,000**	$ -	$ -	$ -	$ -
(8)	*Total Misc. Costs*	$ 803,667	$ -	**$ 803,667**	$ -	$ -	$ -	$ -
F.	**Total Project Costs**	$ 18,024,718	$ -	**$ 18,024,718**	$ -	$ -	$ -	$ -
G.	***Project Contingency***							
(1)	5% for New	$ 901,236	$ -	**$ 901,236**	$ -	$ -	$ -	$ -
(2)	10% for Renovation	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -
(3)	*Total Contingency*	$ 901,236	$ -	**$ 901,236**	$ -	$ -	$ -	$ -
H.	**Total Budget Request [F+G(3)]**	**$ 18,925,954**	**$ -**	$ 18,925,954	**$ -**	**$ -**	**$ -**	**$ -**
I.	***Source of Funds***							
	CCF	$ 9,462,977	$ -	**$ 9,462,977**	$ -	$ -	$ -	$ -
	CF	$ 9,462,977	$ -	**$ 9,462,977**	$ -	$ -	$ -	$ -
	RF	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -
	FF	$ -	$ -	**$ -**	$ -	$ -	$ -	$ -

Source: Office of Institutional Planning

d. Building Ownership/Management

The Instructional Lab Wing will follow in the model of other recent institutionally driven projects on the Auraria Campus, including the University of Colorado Denver's Academic Building 1. The University of Colorado Denver will sign an interagency ground lease agreement with the Auraria Higher Education Center for the land on which the building will reside. This agreement will grant the right to the university to develop the parcel, and to own any improvements that it constructs on the parcel.

The construction management of the project and the management of the project budget will be performed by staff from the University of Colorado Denver, and the building will operated and maintained by University of Colorado Denver staff.

e. Project Cost Estimate

A project estimate for the Instructional Lab Wing project is provided on page 24. In total, it is an $18,925,954 project. Of that total, 50% ($9,462,977) is being requested in Capital Construction funds and the remaining 50% will be institutionally cash funded.

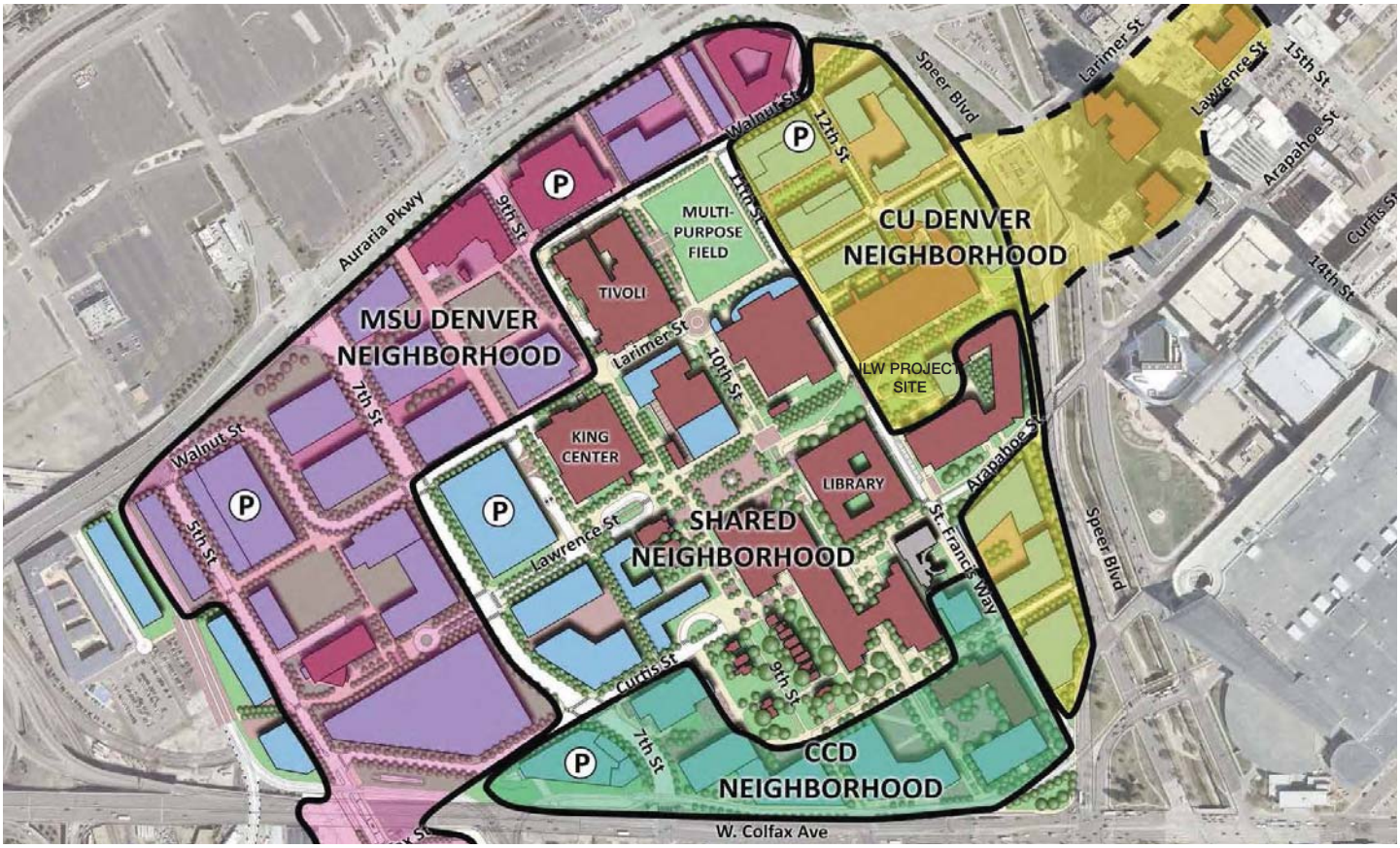
f. Building Operating Costs

The current blended rate for operating expenses for comparable buildings on the Denver Campus is $18.34 per year per assignable square foot. When this number is adjusted for inflation for the projected July of 2017 building opening, the rate increases to $20.04 per year per assignable square foot.

For a building of this size (23,500 assignable square feet), the projected annual operating cost will be $470,940.

g. Project Schedule

Design: July 2014 - August 2015
Bidding/contracting: August 2015 - September 2015
Construction: October 2015 - November 2016
Commissioning and furniture install: November 2016 - January 2017
Occupancy: January 2017

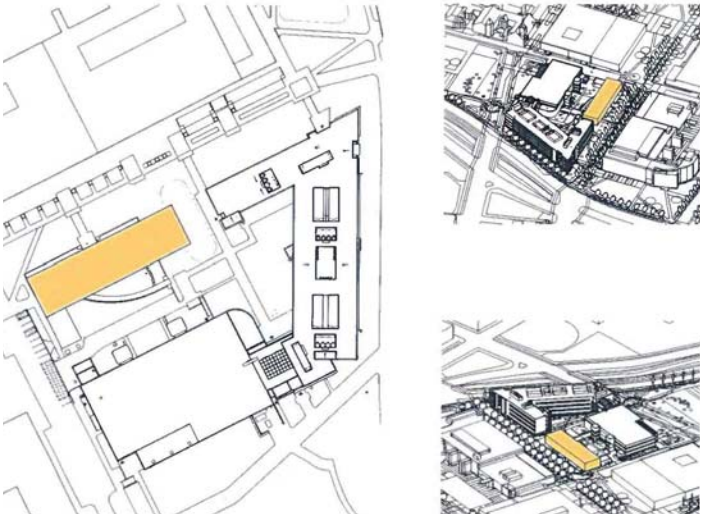


Auraria Campus Neighborhood Map, 2012.

h. Relation to Master Plan

In 2012, The Auraria Higher Education Center (AHEC) updated the master plan for the Auraria Campus in a document titled Auraria Higher Education Center Master Plan Update 2012. At the same time, AHEC hired SmithGroupJJR and Jones Lang LaSalle to do a strategic implementation plan for the campus. This document was titled From Vision to Reality: Auraria Campus Strategic Implementation Plan.

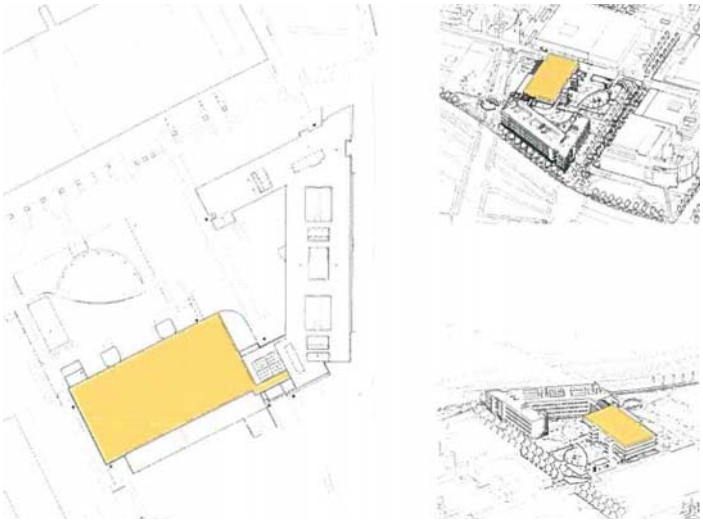
One of the principle goals of the 2012 master plan update was to formalize some of the changes that had occurred in the boundaries of the institutional neighborhoods. The concept of each Auraria institution being provided a distinct neighborhood had been introduced in the 2007 master plan, but since that time the thinking on the actual neighborhood boundaries had evolved. The graphic below shows the institutional neighborhoods as shown in the 2012 master and as they remain today.
The Institutional Lab Wing project sits within the boundary of the University of Colorado Denver neighborhood and as such advances the concept of institutionally focused development within each of the neighborhoods. Section Four of the 2012 master plan, entitled Building Site Uses and Parameters, acknowledges the likely development of the site identified for Instructional Lab Wing and mentions the project by name as the occupant of the site.



Building massing study, Alternative 1. 2009.

There is specific mention in the 2012 master plan of some of the limitations of the Instructional Lab Wing Site, namely the adjacent art installation and the presence of a detention pond directly on the site. The project being proposed in this document would not require that the art installation be moved. It would, however, require the removal of the detention pond and the replacement of that storm water detention capacity.

The design of the Instructional Lab Wing will comply with the Auraria Campus design principles, as listed in section 5 of the master plan.



Building massing study, Alternative 2. 2009.

i. Project Alternatives

Several alternatives to the Instructional Lab Wing project and the site have been considered.

Project Alternatives

Space Re-assignments - The University has spent considerable time exploring opportunities on the campus to re-purpose space dedicated to other uses into teaching and research laboratory space. This strategy has two major shortcomings. First, it is clear from early efforts that the few

opportunities identified would not be adequate to meet the needs of Integrative Biology and Chemistry. In fact, any repurposed space that can be identified will most likely be needed for Integrative Biology and Chemistry in addition to those that will be provided in the Instructional Lab Wing project. Secondly, this approach fails to acknowledge the needs of other departments that will not benefit from Instructional Lab Wing, such as Physics and Psychology.

Status Quo - If no additional space can be identified for Integrative Biology and Chemistry, they will simply be unable to keep pace with their own growth and that of the many existing and new programs that rely on them. These include some of the fastest growing and sought after program in the university such as Public Health. Enrollments will be unable to grow. And the university will not be able to meet its stated goal of growing undergraduate enrollment.

Site Alternatives
Site Alternate 1: Site Alternate 1, as depicted at left, contemplated a stand-alone building in the area currently occupied by an art installation. This site was rejected for the following reasons:

- The expense and time to move the public art, not to mention the benefit it provides to the many users of the campus.
- The loss of the efficiency gained by connecting to the Auraria Science Building.
- The loss of site efficiency (three story building versus two story building).

Site Alternate 2: Site Alternate 2, as depicted at left, involved building on top of the original science building. This site was rejected for the following reasons:

- The lack identity the site would provide for UC Denver.
- The complexity of construction phasing and methods.
- The structural upgrades that would be necessary would be costly.

V. Appendices

a. Existing Space by Department: Chemistry

Department of Chemistry
Existing Space Inventory

Building	Room Number	Department	% Ownership	Square Footage (ASF)	Space Type	Room Name
Science Building	3099	CHEM	50	535	210 - Class Lab	BIOCHEMISTRY TEACHING LAB
Science Building	3101	CHEM	100	932	210 - Class Lab	ANALYTICAL/INORGANIC TEACHING LAB
Science Building	3103	CHEM	100	1,284	210 - Class Lab	PHYSICAL/INSTRUMENT TEACHING LAB
Science Building	3109	CHEM	100	1,311	210 - Class Lab	GENERAL CHEMISTRY TEACHING LAB
Science Building	3113	CHEM	100	1,308	210 - Class Lab	GENERAL CHEMISTRY TEACHING LAB
Science Building	3115	CHEM	100	1,329	210 - Class Lab	ORGANIC CHEMISTRY TEACHING LAB
Science Building	3117	CHEM	100	1,359	210 - Class Lab	ORGANIC CHEMISTRY TEACHING LAB
Science Building	3117A	CHEM	100	250	210 - Class Lab	CLASS LAB INSTRUMENT ROOM
			Subtotal	**8308**		
Science Building	2106	CHEM	100	92	215 - Class Lab Service	STORAGE
Science Building	3105	CHEM	100	350	215 - Class Lab Service	CLASS LAB PREP ROOM
Science Building	3111	CHEM	100	131	215 - Class Lab Service	INSTRUMENT ROOM
Science Building	3099A	CHEM	50	67	215 - Class Lab Service	CLASS LAB EQUIPMENT ROOM
Science Building	3099B	CHEM	50	80	215 - Class Lab Service	CLASS LAB PREP ROOM
Science Building	3101A	CHEM	100	241	215 - Class Lab Service	CLASS LAB PREP ROOM
Science Building	3109A	CHEM	100	192	215 - Class Lab Service	BALANCE ROOM
Science Building	3113A	CHEM	100	256	215 - Class Lab Service	CLASS LAB PREP ROOM
Science Building	3115A	CHEM	100	145	215 - Class Lab Service	CLASS LAB PREP ROOM
Science Building	3115B	CHEM	100	144	215 - Class Lab Service	BALANCE ROOM/LAB SERVICE
			Subtotal	**1698**		
Science Building	3	CHEM	100	1,264	250 - Research Laboratory	RESEARCH LAB
Science Building	4116	CHEM	100	1,317	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4118	CHEM	100	658	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4129	CHEM	100	1,314	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4133	CHEM	100	1,311	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4139	CHEM	100	1,272	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4149	CHEM	100	1,329	250 - Research Laboratory	STUDENT RESEARCH LAB
			Subtotal	**8,465**		
Science Building	1	CHEM	100	326	253 - Research Equipment Room	RESEARCH EQUIPMENT ROOM
			Subtotal	**326**		
Science Building	10	CHEM	100	364	255 - Research Laboratory Service	RESEARCH IMAGING
Science Building	99	CHEM	100	473	255 - Research Laboratory Service	STORAGE
Science Building	4121	CHEM	100	295	255 - Research Laboratory Service	RESEARCH IMAGING
Science Building	4122	CHEM	100	627	255 - Research Laboratory Service	RESEARCH INSTRUMENT ROOM
Science Building	4141	CHEM	100	167	255 - Research Laboratory Service	EQUIPMENT STORAGE
Science Building	4151	CHEM	100	140	255 - Research Laboratory Service	EQUIPMENT STORAGE
Science Building	4133A	CHEM	100	118	255 - Research Laboratory Service	EQUIPMENT STORAGE
Science Building	4133B	CHEM	100	119	255 - Research Laboratory Service	EQUIPMENT STORAGE
			Subtotal	**2303**		
Science Building	4120	CHEM	100	222	256 - Research Darkroom	RESEARCH DARK ROOM
			Subtotal	**222**		
Science Building	3071E	CHEM	100	118	310 - General Office	OFFICE - CHAIR/DIRECTOR
Science Building	3073	CHEM	100	152	311 - Faculty Office	FACULTY OFFICE
Science Building	3074	CHEM	100	152	311 - Faculty Office	FACULTY OFFICE
Science Building	3076	CHEM	100	116	311 - Faculty Office	ADJUNCT OFFICE
Science Building	3107	CHEM	100	300	311 - Faculty Office	UNDERGRADUATE TEACHING ASST OFFICE
Science Building	4114	CHEM	100	111	311 - Faculty Office	FACULTY OFFICE
Science Building	4128	CHEM	100	1,195	311 - Faculty Office	RESEARCH ASSISTANT WORKSTATION
Science Building	4131	CHEM	100	120	311 - Faculty Office	FACULTY OFFICE
Science Building	4135	CHEM	100	111	311 - Faculty Office	FACULTY OFFICE
Science Building	4137	CHEM	100	114	311 - Faculty Office	FACULTY OFFICE
Science Building	4143	CHEM	100	121	311 - Faculty Office	FACULTY OFFICE
Science Building	4145	CHEM	100	122	311 - Faculty Office	FACULTY OFFICE
Science Building	4147	CHEM	100	120	311 - Faculty Office	FACULTY OFFICE
Science Building	3071C	CHEM	100	119	311 - Faculty Office	FACULTY OFFICE
Science Building	3071D	CHEM	100	248	311 - Faculty Office	FACULTY OFFICE
Science Building	3107A	CHEM	100	156	311 - Faculty Office	LAB COORDINATOR OFFICE
Science Building	4118A	CHEM	100	165	311 - Faculty Office	RESEARCH ASSISTANT WORKSTATION
Science Building	4126A	CHEM	100	120	311 - Faculty Office	FACULTY OFFICE
Science Building	4126B	CHEM	100	120	311 - Faculty Office	FACULTY OFFICE
Science Building	4128A	CHEM	100	122	311 - Faculty Office	FACULTY OFFICE
Science Building	4128B	CHEM	100	125	311 - Faculty Office	FACULTY OFFICE
Science Building	4129A	CHEM	100	120	311 - Faculty Office	FACULTY OFFICE
Science Building	3071	CHEM	100	343	314 - Clerical Office	RECEPTION
Science Building	3071F	CHEM	100	119	314 - Clerical Office	OFFICE - ADMINISTRATIVE ASSISTANT
			Subtotal	**4609**		
Science Building	3067	CHEM	50	103	315 - Office Service	BREAKROOM
Science Building	4125	CHEM	50	55	315 - Office Service	COPY ROOM
Science Building	3071A	CHEM	100	116	315 - Office Service	WORK/COPY/PRINT
Science Building	3071B	CHEM	100	116	315 - Office Service	RECORDS
			Subtotal	**390**		
Science Building	3069	CHEM	50	210	350 - Conference Room	CONFERENCE ROOM
Science Building	0003A	CHEM	100	327	350 - Conference Room	CONFERENCE ROOM
			Subtotal	**537**		
Science Building	1089	CHEM	34	277	730 - Central Storage	GLASSWEAR STORAGE
Science Building	1085	CHEM	33	432	760 - Hazardous Materials Storage	CHEMISTRY STOCKROOM
Science Building	1085A	CHEM	33	66	760 - Hazardous Materials Storage	FLAMMABLE STORAGE
Science Building	0003B	CHEM	100	296	Y05 - Telecom	SERVER ROOM
			Subtotal	**1071**		
			TOTAL	**27,929**		

Department of Integrative Biology
Existing Space Inventory

Building	Room Number	Department	% Ownership	Square Footage (ASF)	Space Type	Room Name
Science Building	2095	BIOL	100	1,376	210 - Class Lab	GENERAL BIOLOGY TEACHING LAB
Science Building	2099	BIOL	100	1,396	210 - Class Lab	GENERAL BIOLOGY TEACHING LAB
Science Building	2101	BIOL	100	1,378	210 - Class Lab	PHYSIOLOGY TEACHING LAB
Science Building	2103	BIOL	100	1,337	210 - Class Lab	ANATOMY TEACHING LAB
Science Building	2104	BIOL	100	1,296	210 - Class Lab	GENERAL BIOLOGY TEACHING LAB
Science Building	2107	BIOL	100	1,312	210 - Class Lab	BASIC/NON-MAJOR TEACHING LAB
Science Building	2115	BIOL	100	1,311	210 - Class Lab	BASIC/NON-MAJOR TEACHING LAB
Science Building	2117	BIOL	100	1,031	210 - Class Lab	MOLECULAR/CELLULAR TEACHING LAB
Science Building	2123	BIOL	100	1,344	210 - Class Lab	MICROBIOLOGY TEACHING LAB
			Subtotal	**11,781**		
Science Building	2095A	BIOL	100	114	215 - Class Lab Service	CLASS LAB PREP ROOM
Science Building	2097	BIOL	100	168	215 - Class Lab Service	STORAGE
Science Building	2099A	BIOL	100	315	215 - Class Lab Service	CLASS LAB PREP ROOM
Science Building	2101A	BIOL	100	225	215 - Class Lab Service	CLASS LAB PREP ROOM
Science Building	2104A	BIOL	100	202	215 - Class Lab Service	CLASS LAB PREP ROOM
Science Building	2105	BIOL	100	295	215 - Class Lab Service	CLASS LAB PREP ROOM
Science Building	2109	BIOL	100	131	215 - Class Lab Service	STORAGE
Science Building	2111	BIOL	100	241	215 - Class Lab Service	CLASS LAB PREP ROOM
Science Building	2121	BIOL	100	362	215 - Class Lab Service	MICROBIOLOGY PREP ROOM
Science Building	2123A	BIOL	100	355	215 - Class Lab Service	CLASS LAB EQUIPMENT ROOM
Science Building	4092	BIOL	100	151	215 - Class Lab Service	EQUIPMENT STORAGE
			Subtotal	**2559**		
Science Building	4085	BIOL	100	670	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4093	BIOL	100	725	250 - Research Laboratory	MOLECULAR CORE FACILITY
Science Building	4094	BIOL	100	1,313	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4095	BIOL	100	1,303	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4102	BIOL	100	1,293	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4103	BIOL	100	1,278	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4108	BIOL	100	1,293	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4109	BIOL	100	1,277	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4117	BIOL	100	1,302	250 - Research Laboratory	STUDENT RESEARCH LAB
Science Building	4119	BIOL	100	656	250 - Research Laboratory	STUDENT RESEARCH LAB
			Subtotal	**11110**		
Science Building	8	BIOL	100	268	255 - Research Laboratory Service	RESEARCH IMAGING
Science Building	21	BIOL	100	337	255 - Research Laboratory Service	STORAGE
Science Building	1021	BIOL	100	284	255 - Research Laboratory Service	SHOP FACILITIES
Science Building	4109A	BIOL	100	139	255 - Research Laboratory Service	EQUIPMENT STORAGE
			Subtotal	**1028**		
Science Building	2071C	BIOL	100	145	310 - General Office	OFFICE - CHAIR/DIRECTOR
Science Building	2071D	BIOL	100	154	310 - General Office	OFFICE - CHAIR/DIRECTOR
Science Building	2071E	BIOL	100	132	310 - General Office	OFFICE - CHAIR/DIRECTOR
Science Building	2071F	BIOL	100	132	310 - General Office	OFFICE - PROGRAM ASSISTANT
Science Building	2071G	BIOL	100	132	310 - General Office	OFFICE - ACADEMIC ADVISOR
Science Building	2072	BIOL	100	116	311 - Faculty Office	ADJUNCT FACULTY SHARED
Science Building	2073	BIOL	100	116	311 - Faculty Office	FACULTY OFFICE
Science Building	2074	BIOL	100	128	311 - Faculty Office	FACULTY OFFICE
Science Building	2075	BIOL	100	128	311 - Faculty Office	FACULTY OFFICE
Science Building	2113	BIOL	100	228	311 - Faculty Office	UNDERGRADUATE TEACHING ASST OFFICE
Science Building	2119	BIOL	100	126	311 - Faculty Office	LAB COORDINATOR OFFICE
Science Building	2121A	BIOL	100	90	311 - Faculty Office	LAB COORDINATOR OFFICE
Science Building	4087	BIOL	100	114	311 - Faculty Office	FACULTY OFFICE
Science Building	4096	BIOL	100	118	311 - Faculty Office	FACULTY OFFICE
Science Building	4097	BIOL	100	118	311 - Faculty Office	FACULTY OFFICE
Science Building	4098	BIOL	100	117	311 - Faculty Office	FACULTY OFFICE
Science Building	4099	BIOL	100	117	311 - Faculty Office	FACULTY OFFICE
Science Building	4100	BIOL	100	119	311 - Faculty Office	FACULTY OFFICE
Science Building	4101	BIOL	100	119	311 - Faculty Office	FACULTY OFFICE
Science Building	4102A	BIOL	100	165	311 - Faculty Office	RESEARCH ASSISTANT WORKSTATION
Science Building	4103A	BIOL	100	165	311 - Faculty Office	RESEARCH ASSISTANT WORKSTATION
Science Building	4104	BIOL	100	119	311 - Faculty Office	FACULTY OFFICE
Science Building	4105	BIOL	100	119	311 - Faculty Office	FACULTY OFFICE
Science Building	4106	BIOL	100	120	311 - Faculty Office	FACULTY OFFICE
Science Building	4107	BIOL	100	119	311 - Faculty Office	FACULTY OFFICE
Science Building	4108A	BIOL	100	161	311 - Faculty Office	RESEARCH ASSISTANT WORKSTATION
Science Building	4110	BIOL	100	116	311 - Faculty Office	FACULTY OFFICE
Science Building	4111	BIOL	100	115	311 - Faculty Office	FACULTY OFFICE
Science Building	4112	BIOL	100	111	311 - Faculty Office	FACULTY OFFICE
Science Building	4113	BIOL	100	111	311 - Faculty Office	FACULTY OFFICE
Science Building	4115	BIOL	100	110	311 - Faculty Office	FACULTY OFFICE
Science Building	4119A	BIOL	100	167	311 - Faculty Office	RESEARCH ASSISTANT WORKSTATION
Science Building	4123	BIOL	100	585	311 - Faculty Office	RESEARCH ASSISTANT WORKSTATION
Science Building	4124	BIOL	100	326	311 - Faculty Office	RESEARCH ASSISTANT WORKSTATION
Science Building	4124A	BIOL	100	132	311 - Faculty Office	FACULTY OFFICE
Science Building	4124B	BIOL	100	121	311 - Faculty Office	FACULTY OFFICE
Science Building	2071	BIOL	100	450	314 - Clerical Office	RECEPTION
Science Building	2071H	BIOL	100	132	314 - Clerical Office	OFFICE - ADMINISTRATIVE ASSISTANT
			Subtotal	**5893**		
Science Building	2071A	BIOL	100	116	315 - Office Service	WORK/COPY/PRINT
Science Building	2071B	BIOL	100	116	315 - Office Service	RECORDS
Science Building	2108	BIOL	100	95	315 - Office Service	COPY ROOM
Science Building	3067	BIOL	50	103	315 - Office Service	BREAKROOM
Science Building	4125	BIOL	50	55	315 - Office Service	COPY ROOM
			Subtotal	**485**		
Science Building	3069	BIOL	50	210	350 - Conference Room	CONFERENCE ROOM
Science Building	4127	BIOL	100	408	350 - Conference Room	CONFERENCE ROOM
			Subtotal	**618**		
Science Building	0006P	BIOL	100	102	570 - Animal Quarters/Facilities	RESEARCH
Science Building	0006Q	BIOL	100	102	570 - Animal Quarters/Facilities	RESEARCH
Science Building	0006R	BIOL	100	152	570 - Animal Quarters/Facilities	RESEARCH
Science Building	0006S	BIOL	100	154	570 - Animal Quarters/Facilities	RESEARCH
			Subtotal	**510**		
Science Building	3012A	BIOL	33	313	580 - Greenhouse	GREENHOUSE
Science Building	3012B	BIOL	34	309	580 - Greenhouse	GREENHOUSE
Science Building	3012C	BIOL	33	282	580 - Greenhouse	GREENHOUSE
Science Building	4090A	BIOL	100	602	580 - Greenhouse	RESEARCH GREENHOUSE
Science Building	4090A1	BIOL	100	606	580 - Greenhouse	RESEARCH GREENHOUSE
Science Building	3010	BIOL	33	106	585 - Greenhouse Service	HEAD HOUSE
Science Building	4088	BIOL	100	133	585 - Greenhouse Service	PLANT GROWTH
Science Building	4089	BIOL	100	111	585 - Greenhouse Service	PLANT GROWTH
Science Building	4090	BIOL	100	273	585 - Greenhouse Service	HEAD HOUSE
Science Building	4091	BIOL	100	272	585 - Greenhouse Service	GROWTH CHAMBER ROOM
			Subtotal	**3007**		
			TOTAL	**36,991**		