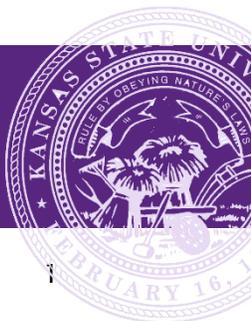


# Kansas State University

## RESEARCH SPACE DISTRIBUTION AND USE ANALYSIS STUDY

December 15, 2022

Prepared by PGAV Architects / Rickes Associates



# **RESEARCH SPACE DISTRIBUTION AND USE ANALYSIS STUDY**

**Kansas State University**

Division of Facilities

Facilities Department of Campus Planning, Project Management,  
& Space Management

# Executive Summary

In Spring 2022, Kansas State University (K-State) commissioned PGAV and Rickes Associates to analyze the existing distribution and use of research space. This study included a physical room condition rating along with the current use of the space. This information would then support future strategic planning and facilities master plans for the university. Additional outcomes included:

- Developing research space data to provide a holistic picture of K-State's space use when combined with the space utilization data for instructional and office space from the KBOR 2020 Report on State University Building Inventory, Space Utilization, and Facilities Condition.
- Engaging college deans and university leadership in confirming the assignment and use of the research spaces and identifying principal investigators assigned to each research space. (The study excludes PIs who are not assigned to research space.)

Sites included:

- Main Campus in Manhattan
- Off-campus facilities in Manhattan - primarily for the College of Agriculture and K-State Research & Extension
- K-State Olathe
- K-State Salina Aerospace and Technology Campus
- Research-Extension Centers across the state of Kansas

The applied definition of research space is extracted from the Postsecondary Education Facilities Inventory and Classification Manual (FICM) by the National Center for Education Statistics. For purposes of the study, FICM 250 Research/Nonclass Laboratory space is generally defined as: a room used primarily for laboratory experimentation, research, or training in research methods; professional research and observation; or structured creative activity within a specific program. The space is designed or equipped for the conduct of research in which activities are generally confined to faculty, staff, or assigned graduate students and may include experimentation and observation in a structured environment directed by one or more faculty or principal investigator(s) (Postsecondary Education Facilities Inventory and Classification Manual, 1992). The activities are generally assigned to a particular discipline or closely related group.

In the institutional setting, this includes traditional wet labs, physical testing labs, pilot plants, and dry labs for research in health and human sciences. Computational research labs, where research is conducted at individual computer workstations, are classified as FICM 310 Office space, and not included in this report.

The findings report the total amount of research space (FICM 250 Research/Nonclass Lab /255 Lab Service) for each college/unit based on assignable square footage (ASF). When spaces were reviewed for actual use, it was determined that various spaces, although generally designed and built as research labs, were being utilized for other purposes, or were vacant, or off-line because of alterations or conversation.

These spaces were codified using a subset of space codes identifying how the space was currently being used. For example, in some instances, a research lab had been converted into an office space (FICM 310) or a teaching lab (FICM 210) and are identified as such using a sub-code (250.310 or 250.210). This allows K-State to identify purpose-built space that is being reassigned for other uses.

The study also developed data for the following areas:

- Total number and ASF of FICM 250/255 research spaces at the College of Agriculture/KSRE's Research-Extension center sites
- Total number and ASF of research-related animal facilities and greenhouse spaces on the main campus
- High-level comparative benchmarking for select colleges
- High-level physical condition assessment by space (A-F) on the main campus
- Compiled information on research and research-related space for the College of Agriculture/KSRE's ASI Farm Units and Plant Sciences sites in Manhattan and the surrounding area. Data for these sites is incomplete due to lack of availability of current floor plan information and is presented separately in the report.

A key message conveyed to the colleges was that the study purpose was not to measure research activity, but to confirm the university's inventory of purpose-built research space. When spaces were noted to be multi-purpose, the colleges were asked to identify the primary use.

## **FINDINGS**

### **Research Space Distribution and Use**

**Total research space = 594,581 ASF:**

- Main campus = 557,688 ASF
- K-State Olathe campus = 16,445 ASF
- Research-Extension Centers (across State of Kansas) = 20,448 ASF

The following seven colleges/units are assigned research space:

- College of Agriculture and K-State Research & Extension (KSRE)
- College of Arts and Sciences
- College of Engineering
- College of Health & Human Sciences
- College of Veterinary Medicine
- K-State Olathe
- Vice President for Research

During interviews with college deans, it was determined that K-State Salina's campus and the following colleges/units do not have spaces which are primarily used for research:

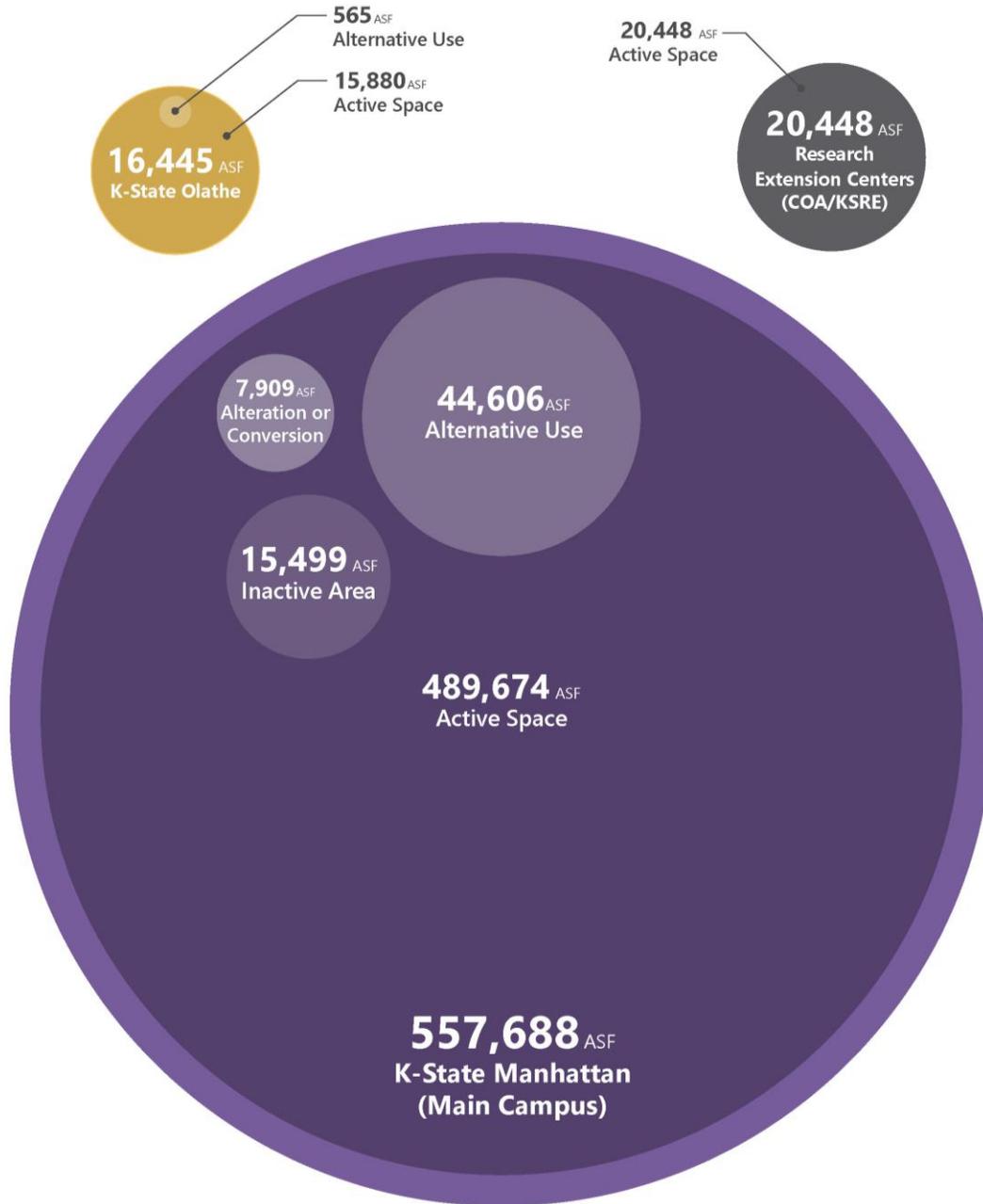
- College of Architecture, Planning and Design
- College of Business Administration
- College of Education

Total Research Space by Categories (See Figure 1)

<b>Space Type</b>	<b>ASF</b>
Active	526,002
Inactive/Vacant	15,499
Undergoing Alteration/Conversion	7,909
Alternative Use	45,171
<b>Total</b>	<b>594,581</b>

Of the total research space approximately 80% is assigned to the Colleges of Agriculture/KSRE, Arts and Sciences, and Engineering. (See Figure 2)

**FIGURE 1 - Total FICM 250/255 Research Space by Location - Main Campus, Olathe, and Research-Extension Center Sites**

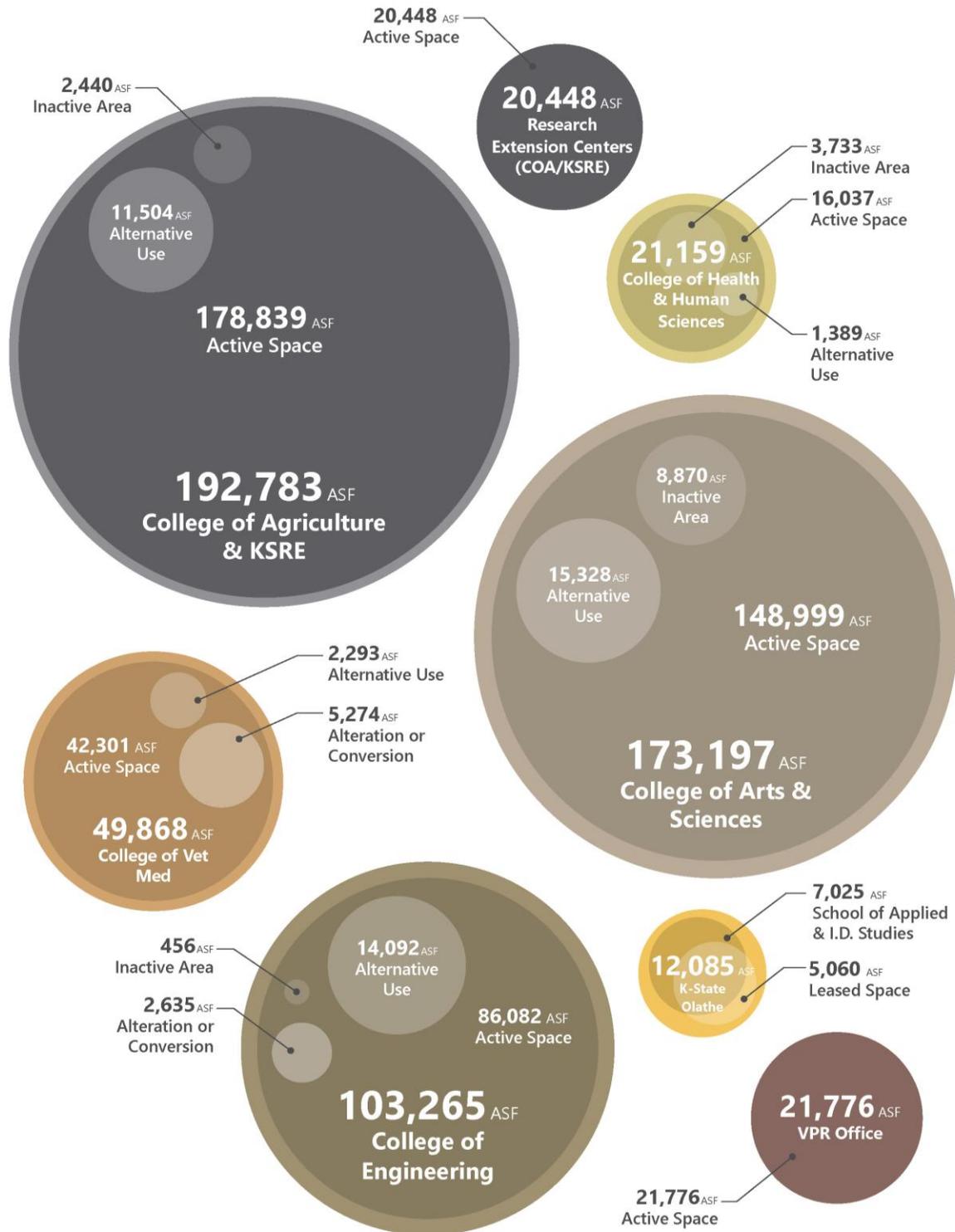


**Total = 594,581 ASF**

Not included:

- Research-related Animal Facilities and Greenhouse space on the Main Campus and at the COA/KSRE's research-extension sites
- Research and research-related Animal Facilities and Greenhouse space on the COA/KSRE's ASI Farm Units and Plant Sciences sites

**FIGURE 2 - TOTAL FICM 250/255 Research Space by College/Unit**



**Total Space** - and sub-totals for:

- Active Space
- Inactive Area
- Alteration or Conversion Area
- Alternative Use

## 4.0 Findings by Building

The following buildings on the main campus and at K-State Olathe include research space which is classified as FICM 250/255 (or with FICM 250/255 subcodes).

<b>BUILDING NAME</b>	<b>BLDG. TOTAL ASF</b>	<b>RESEARCH SPACE ASF</b>	<b>PERCENTAGE OF RESEARCH SPACE</b>
Ackert/Chalmers Hall	121,487	61,240	50%
Bioprocessing Industrial Value Added Program Center (BIVAP Innovation Center)	16,640	12,369	74%
Bluemont Hall	77,217	7,189	9%
Burt Hall	24,167	14,989	62%
Bushnell Annex	1,806	1,053	58%
Bushnell Hall	14,664	8,041	55%
Call Hall	43,527	21,381	49%
Campus Creek Complex	17,602	1,076	6%
Cardwell Hall	100,018	28,164	28%
Chem-Biochem Building	53,000	30,380	57%
Chemical Storage Building (a.k.a. King Hall Annex)	1,733	1,098	63%
Civil Infrastructure Testing Lab	4,963	4,888	98%
Dickens Hall	17,917	135	1%
Durland/Rathbone/Fiedler Engineering Hall	213,738	48,727	23%
Environmental Research Lab	4,828	2,347	49%
Feed Technology Building	7,392	2,340	32%
General Richard B. Myers Hall	26,419	3,818	14%
Gymnasium	54,456	393	1%
Hoeflin Stone House	8,994	726	8%
Justin Hall	91,456	10,558	12%
King Hall	27,218	5,300	19%
KSU Innovation Center	19,868	1,688	8%
KSU Olathe Building A	63,148	16,445	26%
Lafene Health Center	50,776	3,053	6%
Leasure Hall	21,138	2,466	12%
Mary & Carl Ice Hall	12,687	2,458	19%
Mechanical Engineering Lab	12,309	8,541	69%
Natatorium	35,395	2,732	8%
O.H. Kruse Feed Mill	21,082	3,382	16%
Pat Roberts Hall - Biosecurity Research Institute (BRI)	41,424	20,901	50%
Seaton/Regnier Hall	221,391	17,588	8%
Shellenberger Hall	32,361	7,991	25%
Thompson Hall	15,224	5,557	37%
Throckmorton Plant Sciences Center	241,545	85,830	36%
Throckmorton Dairy Barn	21,682	6,800	31%
Throckmorton Hall - NEREC	2,182	299	14%
VM - Coles Hall	59,003	19,934	34%
VM - Mosier Hall	162,755	28,512	18%
VM - Trotter Hall	68,765	384	1%
Ward Hall	30,212	22,333	74%
Waters Hall	100,548	24,237	24%
Waters Hall Annex	11,118	5,460	49%
Weber Hall	95,737	20,483	21%
Willard Hall	56,870	1,176	2%
	<b>2,326,462</b>	<b>574,462</b>	

# Appendix A – FICM References and Subcodes

## FICM Space Codes and Definitions

The following relevant definitions and description are from IES/NCES National Center for Education Statistics, Facilities Inventory and Classification Manual (FICM). For reference and additional information including “limitations,” see: <https://nces.ed.gov/pubs2006/ficm/index.asp>

### **250 Research/Nonclass Laboratory**

- *Definition:* A space used for laboratory experimentation, research, or training in research methods; professional research and observation; or structured creative activity within a specific program or for sponsored research (whether sponsored with federal, state, private, or institutional funds).
- *Description:* A research/nonclass laboratory is designed or equipped for faculty, staff, and students for the conduct of research and controlled or structured creative activities. These activities are generally confined to faculty, staff, and assigned graduate students and are applicable to any academic discipline. Activities may include experimentation, application, observation, composition, or research training in a structured environment directed by one or more faculty or principal investigators. These activities do not include practice or independent study projects and activities that, although delivering “new knowledge” to a student, are not intended for a broader academic (or sponsoring) community (e.g., a presentation or publication). This category includes laboratories that are used for experiments, testing, or “dry runs” in support of instructional, research, or public service activities. Nonclass public service laboratories that promote new knowledge in academic fields (e.g., animal diagnostic laboratories, cooperative extension laboratories) are included in this category.

### **255 Research/Nonclass Laboratory Service**

- *Definition:* A space that directly serves one or more research/nonclass laboratories as an extension of the activities in those spaces.
- *Description:* Includes only those spaces that directly serve a research/nonclass laboratory. Included are projection rooms, telecommunications control booths, coat rooms, preparation rooms, closets, material storage, balance rooms, cold rooms, stock rooms, dark rooms, equipment issue rooms, temporary hazardous materials storage areas, and similar facilities, if they serve research/nonclass laboratories

### **570 Animal Facilities**

- *Definition:* A space that houses laboratory animals used for research and/or instructional purposes.
- *Description:* Includes animal rooms; cage rooms; stalls; wards; and procedure, operating, recovery, isolation, quarantine, and similar spaces for instruction and research

### **575 Animal Facilities Service**

- *Definition:* A space that directly serves an animal quarters facility as an extension of the activities in that facility.
- *Description:* Includes feed storage rooms, feed mixing rooms, cage washing rooms, cage storage rooms, casting rooms, instrument rooms, and internal (nonpublic) circulation space.

### **580 Greenhouse**

- *Definition: A building or space, usually composed chiefly of glass, plastic, or other light-transmitting material, that is used for the cultivation or protection of plants or seedlings for research, instruction, or campus physical maintenance or improvement purposes.*

### **585 Greenhouse Service**

- *Definition: A space that directly serves a greenhouse facility as an extension of the activities in that facility.*
- *Description: Includes equipment or materials storage areas and rooms generally called headhouses*

### **FICM Subcodes**

The study developed a system of FICM subcodes which refer to the main space code and identify the space as it was purpose-built, with a subcode to indicate how the space is currently being utilized. The following subcodes have been used in the study / appear in the building inventory.

250.050 Research/Nonclass Laboratory – Inactive Area  
250.060 Research/Nonclass Laboratory – Alteration or Conversion Area  
250.210 Research/Nonclass Laboratory – Class Laboratory  
250.215 Research/Nonclass Laboratory – Class Laboratory Service  
250.220 Research/Nonclass Laboratory – Open Laboratory  
250.310 Research/Nonclass Laboratory – Office  
250.315 Research/Nonclass Laboratory – Office Service  
250.350 Research/Nonclass Laboratory – Conference Room  
250.570 Research/Nonclass Laboratory – Animal Facilities  
250.625 Research/Nonclass Laboratory – Exhibition Service  
250.XXX Research/Nonclass Laboratory – Property Sold

255.050 Research/Nonclass Laboratory Service – Inactive Area  
255.215 Research/Nonclass Laboratory Service – Class Laboratory Service  
255.310 Research/Nonclass Laboratory Service – Office  
255.315 Research/Nonclass Laboratory Service – Office Service  
255.350 Research/Nonclass Laboratory Service – Conference Room  
255.715 Research/Nonclass Laboratory Service – Central Computer or Telecommunications Service  
255.730 Research/Nonclass Laboratory Service – Central Storage  
255.780 Research/Nonclass Laboratory Service – Unit Storage  
255.W06 Research/Nonclass Laboratory Service – Public Corridor  
255.Y04 Research/Nonclass Laboratory Service – Utility/Mechanical Space

## **Appendix B – Research Space by Building**

The following table summarizes Research Space and Total ASF by building for the following main campus buildings and K-State Olathe.

Building Name	FICM Parent	ASF		Percent/Total
		ASF	Research ASF	
ACKERT/CHALMERS HALL	210	16,711		
	215	3,907		
	250	46,352		
	250.05	614		
	250.31	1,077		
	255	12,419		
	255.31	281		
	255.315	44		
	255.715	453	<b>61,240</b>	<b>Total Research Space</b>
	100	4,343		
	300	27,237		
	400	868		
500	4,431			
600	594			
700	2,156			
<b>ACKERT/CHALMERS HALL TOTAL ASF</b>		<b>121,487</b>	<b>50%</b>	<b>Percent Research Space</b>
BIVAP INNOVATION CENTER	250	9,630		
	250.315	112		
	255	2,627	<b>12,369</b>	<b>Total Research Space</b>
	300	3,810		
	700	481		
<b>BIVAP INNOVATION CENTER TOTAL ASF</b>		<b>16,660</b>	<b>74%</b>	<b>Percent Research Space</b>
BLUEMONT HALL	210	2,289		
	230	813		
	250	5,328		
	250.31	277		
	250.315	35		
	250.57	96		
	255	1,042		
	255.31	411	<b>7,189</b>	<b>Total Research Space</b>
	100	21,836		
	300	35,712		
400	3,435			
500	4,357			
600	180			
700	1,146			
800	260			
<b>BLUEMONT HALL TOTAL ASF</b>		<b>77,217</b>	<b>9%</b>	<b>Percent Research Space</b>
BURT HALL	250	7,785		
	250.05	759		
	255	2,419		
	255.315	3,891		
	250.W06	135	<b>14,989</b>	<b>Total Research Space</b>
	100	878		
	300	2,976		
500	2,975			
700	2,349			
<b>BURT HALL TOTAL ASF</b>		<b>24,167</b>	<b>62%</b>	<b>Percent Research Space</b>
BUSHNELL ANNEX	255	1,053	<b>1,053</b>	<b>Total Research Space</b>
	300	753		
<b>BUSHNELL ANNEX TOTAL ASF</b>		<b>1,806</b>	<b>58%</b>	<b>Percent Research Space</b>
BUSHNELL HALL	250	5,785		
	250.31	151		
	255	2,105	<b>8,041</b>	<b>Total Research Space</b>
	300	5,897		
	600	22		
	700	704		
<b>BUSHNELL HALL TOTAL ASF</b>		<b>14,664</b>	<b>55%</b>	<b>Percent Research Space</b>

Building Name	FICM Parent	ASF		Percent/Total
		ASF	Research ASF	
CALL HALL	210	2,262		
	215	675		
	250	15,223		
	255	6,158	21,381	Total Research Space
	100	4,025		
	300	11,006		
	400	727		
	500	1,490		
	600	1,638		
	700	323		
<b>CALL HALL TOTAL ASF</b>		<b>43,527</b>	<b>49%</b>	<b>Percent Research Space</b>
CAMPUS CREEK COMPLEX	210	874		
	220	836		
	225	61		
	250	911		
	250.31	150		
	255	15	1,076	Total Research Space
	300	4,049		
	500	5,135		
	700	1,010		
	800	4,561		
<b>CAMPUS CREEK COMPLEX TOTAL ASF</b>		<b>17,602</b>	<b>6%</b>	<b>Percent Research Space</b>
CARDWELL HALL	210	11,119		
	215	3,262		
	220	684		
	250	10,812		
	250.05	7,444		
	250.21	377		
	250.35	183		
	255	7,886		
	255.05	154		
	255.315	1,308	28,164	Total Research Space
		100	14,238	
	300	30,324		
	400	2,005		
	600	1,208		
	700	9,014		
<b>CARDWELL HALL TOTAL ASF</b>		<b>100,018</b>	<b>28%</b>	<b>Percent Research Space</b>
CHEM-BIOCHEM BUILDING	210	6,576		
	215	836		
	220	358		
	250	26,535		
	250.22	481		
	250.31	1,364		
	255	2,000	30,380	Total Research Space
	100	640		
	300	12,674		
	400	604		
	600	209		
	700	723		
<b>CHEM-BIOCHEM BUILDING TOTAL ASF</b>		<b>53,000</b>	<b>57%</b>	<b>Percent Research Space</b>
CHEMICAL STORAGE BLDG (AKA: KING HALL ANNEX)	250	342		
	250.31	126		
	250.315	234		
	255.73	396	1,098	Total Research Space
	700	635		
<b>CHEMICAL STORAGE BLDG (AKA: KING HALL ANNEX) TOTAL ASF</b>		<b>1,733</b>	<b>63%</b>	<b>Percent Research Space</b>
CIVIL INFRASTRUCTURE TESTING LAB - ENGG	250	3,776		
	255	913		
	255.Y04	199	4,888	Total Research Space
	300	75		
<b>CIVIL INFRASTRUCTURE TESTING LAB - ENGG TOTAL ASF</b>		<b>4,963</b>	<b>98%</b>	<b>Percent Research Space</b>

Building Name	FICM Parent	ASF		Percent/Total
		ASF	Research ASF	
DICKENS HALL	210	2,655		
	215	266		
	<b>250.35</b>	<b>135</b>	<b>135</b>	<b>Total Research Space</b>
	100	3,020		
	300	11,552		
	700	289		
<b>DICKENS HALL TOTAL ASF</b>		<b>17,917</b>	<b>1%</b>	<b>Percent Research Space</b>
DURLAND / RATHBONE / FIEDLER / ENGINEERING HALL	210	28,114		
	215	5,094		
	220	22,140		
	225	1,326		
	230	1,226		
	250	29,391		
	250.05	248		
	250.06	2,635		
	250.22	5,447		
	250.31	5,014		
	250.315	162		
	250.35	350		
	255	4,248		
	255.05	208		
	255.215	78		
	255.225	354		
	255.31	592	<b>48,727</b>	<b>Total Research Space</b>
	100	24,322		
	300	58,034		
	400	13,314		
	500	279		
	600	1,964		
	700	9,198		
<b>DURLAND / RATHBONE / FIEDLER / ENGINEERING HALL TOTAL ASF</b>		<b>213,738</b>	<b>23%</b>	<b>Percent Research Space</b>
ENVIRONMENTAL RESEARCH LAB	220	934		
	250	1,114		
	255	1,233	<b>2,347</b>	<b>Total Research Space</b>
	300	1,484		
	700	63		
<b>ENVIRONMENTAL RESEARCH LAB TOTAL ASF</b>		<b>4,828</b>	<b>49%</b>	<b>Percent Research Space</b>
FEED TECHNOLOGY	250	1,569		
	255	771	<b>2,340</b>	<b>Total Research Space</b>
	300	1,069		
	500	3,983		
<b>FEED TECHNOLOGY TOTAL ASF</b>		<b>7,392</b>	<b>32%</b>	<b>Percent Research Space</b>
GENERAL RICHARD B. MYERS HALL	210	2,417		
	250	3,218		
	255	600	<b>3,818</b>	<b>Total Research Space</b>
	100	3,557		
	300	5,402		
	500	7,972		
	600	3,046		
	700	207		
<b>GENERAL RICHARD B. MYERS HALL TOTAL ASF</b>		<b>26,419</b>	<b>14%</b>	<b>Percent Research Space</b>
GYMNASIUM	210	1,144		
	220	5,171		
	250	393	<b>393</b>	<b>Total Research Space</b>
	100	1,058		
	300	11,808		
	500	23,219		
	600	9,646		
	700	2,017		
<b>GYMNASIUM TOTAL ASF</b>		<b>54,456</b>	<b>1%</b>	<b>Percent Research Space</b>

Building Name	FICM Parent	ASF		Percent/Total
		ASF	Research ASF	
HOEFLIN STONE HOUSE	220	3,680		
	225	1,277		
	250	726	<b>726</b>	<b>Total Research Space</b>
	100	741		
	300	1,912		
	600	240		
	700	418		
<b>HOEFLIN STONE HOUSE TOTAL ASF</b>		<b>8,994</b>	<b>8%</b>	<b>Percent Research Space</b>
JUSTIN HALL	210	8,989		
	215	1,085		
	220	2,075		
	225	339		
	250	7,005		
	250.05	726		
	250.22	470		
	250.625	642		
	255	1,588		
	255.215	61		
	255.78	66	<b>10,558</b>	<b>Total Research Space</b>
	100	14,933		
	300	35,519		
	400	1,008		
500	14,534			
600	792			
700	1,624			
<b>JUSTIN HALL TOTAL ASF</b>		<b>91,456</b>	<b>12%</b>	<b>Percent Research Space</b>
KING HALL	210	9,140		
	215	837		
	250	3,683		
	250.21	1,280		
	255	274		
	255.Y04	63	<b>5,300</b>	<b>Total Research Space</b>
	100	2,133		
300	3,568			
600	2,430			
700	3,810			
<b>KING HALL TOTAL ASF</b>		<b>27,218</b>	<b>19%</b>	<b>Percent Research Space</b>
KSU INNOVATION CENTER	250.86	1,688	1,688	<b>Total Research Space</b>
	300	10,907		
	600	636		
	700	1,221		
	800	5,416		
<b>KSU INNOVATION CENTER TOTAL ASF</b>		<b>19,868</b>	<b>8%</b>	<b>Percent Research Space</b>
KSU OLATHE BUILDING A	220	1,499		
	225	199		
	250	13,375		
	255	2,505		
	255.315	565	<b>16,445</b>	<b>Total Research Space</b>
	100	8,000		
	300	15,833		
600	11,697			
700	9,475			
<b>KSU OLATHE BUILDING A TOTAL ASF</b>		<b>63,148</b>	<b>26%</b>	<b>Percent Research Space</b>

Building Name	FICM Parent	ASF		Percent/Total
		ASF	Research ASF	
LAFENE STUDENT HEALTH AT MERCY HEALTH CENTER	210	1,089		
	215	64		
	220	1,521		
	225	253		
	235	94		
	250	2,225		
	250.05	198		
	255	630	<b>3,053</b>	<b>Total Research Space</b>
	100	1,128		
	300	23,258		
500	2,130			
600	605			
700	4,612			
800	12,969			
<b>LAFENE STUDENT HEALTH AT MERCY HEALTH CENTER TOTAL ASF</b>		<b>50,776</b>	<b>6%</b>	<b>Percent Research Space</b>
LEASURE HALL	210	769		
	220	167		
	250	534		
	250.22	1,883		
	250.315	49	<b>2,466</b>	<b>Total Research Space</b>
	100	4,302		
	300	11,490		
500	1,715			
700	229			
<b>LEASURE HALL TOTAL ASF</b>		<b>21,138</b>	<b>12%</b>	<b>Percent Research Space</b>
MARY & CARL ICE HALL	210	603		
	220	1,387		
	225	747		
	250.05	2,458	<b>2,458</b>	<b>Total Research Space</b>
	100	2,317		
	300	3,677		
	600	303		
700	1,195			
<b>MARY &amp; CARL ICE HALL TOTAL ASF</b>		<b>12,687</b>	<b>19%</b>	<b>Percent Research Space</b>
MECHANICAL ENGINEERING LABORATORY	250	7,694		
	250.31	847	<b>8,541</b>	<b>Total Research Space</b>
	300	615		
	700	3,153		
<b>MECHANICAL ENGINEERING LABORATORY TOTAL ASF</b>		<b>12,309</b>	<b>69%</b>	<b>Percent Research Space</b>
NATATORIUM	250	1,923		
	255	458		
	255.05	351	<b>2,732</b>	<b>Total Research Space</b>
	100	1,828		
	300	2,383		
	400	181		
	500	21,627		
600	5,631			
700	1,013			
<b>NATATORIUM TOTAL ASF</b>		<b>35,395</b>	<b>8%</b>	<b>Percent Research Space</b>
O.H. KRUSE FEED MILL	215	17,293		
	250	3,234		
	255	148	<b>3,382</b>	<b>Total Research Space</b>
	300	407		
<b>O.H. KRUSE FEED MILL TOTAL ASF</b>		<b>21,082</b>	<b>16%</b>	<b>Percent Research Space</b>
PAT ROBERTS HALL - BIOSECURITY RESEARCH INSTITUTE	220	758		
	225	411		
	250	10,488		
	255	10,413	<b>20,901</b>	<b>Total Research Space</b>
	100	735		
	300	8,467		
	500	3,458		
600	3,618			
700	3,076			
<b>PAT ROBERTS HALL - BIOSECURITY RESEARCH INSTITUTE TOTAL ASF</b>		<b>41,424</b>	<b>50%</b>	<b>Percent Research Space</b>

Building Name	FICM Parent	ASF		Percent/Total
		ASF	Research ASF	
SEATON / REGNIER HALL	210	74,950		
	215	2,260		
	220	33,383		
	225	2,044		
	250	14,853		
	250.31	689		
	255	2,046	<b>17,588</b>	<b>Total Research Space</b>
	100	14,579		
	300	56,408		
	400	6,328		
600	6,516			
700	7,335			
<b>SEATON / REGNIER HALL TOTAL ASF</b>		<b>221,391</b>	<b>8%</b>	<b>Percent Research Space</b>
SHELLENBERGER HALL	210	11,506		
	220	1,564		
	225	891		
	250	5,935		
	250.22	1,074		
	255	533		
	255.225	449	<b>7,991</b>	<b>Total Research Space</b>
	100	2,682		
	300	5,573		
	400	1,293		
600	699			
700	162			
<b>SHELLENBERGER HALL TOTAL ASF</b>		<b>32,361</b>	<b>25%</b>	<b>Percent Research Space</b>
THOMPSON HALL	210	1,655		
	215	84		
	220	1,114		
	250	4,665		
	250.31	183		
	255	709	<b>5,557</b>	<b>Total Research Space</b>
	100	2,102		
	300	4,485		
	700	227		
	<b>THOMPSON HALL TOTAL ASF</b>		<b>15,224</b>	<b>37%</b>
THROCKMORTON HALL	210	8,430		
	215	2,841		
	220	4,206		
	225	320		
	250	55,984		
	250.05	509		
	250.31	575		
	250.315	1,985		
	255	24,844		
	255.05	385		
	255.31	196		
	255.315	1,091		
	255.35	261	<b>85,830</b>	<b>Total Research Space</b>
	100	8,670		
	300	46,521		
	400	1,749		
500	81,365			
600	577			
700	1,036			
<b>THROCKMORTON HALL TOTAL ASF</b>		<b>241,545</b>	<b>36%</b>	<b>Percent Research Space</b>

Building Name	FICM Parent	ASF		Percent/Total
		ASF	Research ASF	
THROCKMORTON HALL - Dairy Barn	250	506		
	250.315	700		
	255	3,645		
	255.315	905		
	255.Y04	480		
	255.W06	564	<b>6,800</b>	<b>Total Research Space</b>
	300	1,559		
	500	937		
	600	1,347		
	700	11,039		
<b>THROCKMORTON HALL - Dairy Barn TOTAL ASF</b>		<b>21,682</b>	<b>31%</b>	<b>Percent Research Space</b>
THROCKMORTON HALL - NEREC	255.315	299	<b>299</b>	<b>Total Research Space</b>
	300	1,883		
<b>THROCKMORTON HALL - NEREC TOTAL ASF</b>		<b>2,182</b>	<b>14%</b>	<b>Percent Research Space</b>
VM - COLES HALL	250	15,026		
	255	4,664		
	255.31	244	<b>19,934</b>	<b>Total Research Space</b>
	000	165		
	300	10,175		
	500	10,285		
	600	207		
700	18,237			
<b>VM - COLES HALL TOTAL ASF</b>		<b>59,003</b>	<b>34%</b>	<b>Percent Research Space</b>
VM - MOSIER HALL	210	1,763		
	215	558		
	220	2,623		
	225	1,093		
	250	19,439		
	250.06	5,274		
	250.31	136		
	250.84	225		
	255	3,438	<b>28,512</b>	<b>Total Research Space</b>
	000	264		
	100	856		
	300	37,032		
	400	320		
500	21,083			
600	5,684			
700	13,133			
800	49,834			
<b>VM - MOSIER HALL TOTAL ASF</b>		<b>162,755</b>	<b>18%</b>	<b>Percent Research Space</b>
VM - TROTTER HALL	210	8,532		
	215	631		
	220	10,785		
	225	2,431		
	230	1,801		
	235	749		
	250	384	<b>384</b>	<b>Total Research Space</b>
	100	6,265		
	300	19,580		
400	10,009			
500	209			
600	3,205			
700	3,476			
800	708			
<b>VM - TROTTER HALL TOTAL ASF</b>		<b>68,765</b>	<b>1%</b>	<b>Percent Research Space</b>
WARD HALL	230	344		
	250	17,727		
	255	4,606	<b>22,333</b>	<b>Total Research Space</b>
	100	943		
	300	4,987		
700	1,605			
<b>WARD HALL TOTAL ASF</b>		<b>30,212</b>	<b>74%</b>	<b>Percent Research Space</b>

Building Name	FICM Parent	ASF		Percent/Total
		ASF	Research ASF	
WATERS HALL	210	2,408		
	220	891		
	250	15,422		
	250.05	1,369		
	250.31	1,210		
	250.315	203		
	255	5,220		
	255.05	177		
	255.31	386		
	255.315	73		
	255.Y04	177	24,237	Total Research Space
	100	8,873		
	300	56,672		
	400	585		
500	274			
600	2,142			
700	4,466			
<b>WATERS HALL TOTAL ASF</b>		<b>100,548</b>	<b>24%</b>	<b>Percent Research Space</b>
WATERS HALL ANNEX	210	1,233		
	225	255		
	250	3,676		
	250.215	362		
	250.31	360		
	255	935		
	255.315	127	5,460	Total Research Space
	100	1,893		
	300	2,222		
	700	55		
<b>WATERS HALL ANNEX TOTAL ASF</b>		<b>11,118</b>	<b>49%</b>	<b>Percent Research Space</b>
WEBER HALL	210	1,660		
	215	252		
	220	4,130		
	225	2,249		
	250	13,498		
	250.05	907		
	250.31	1,753		
	255	4,325	20,483	Total Research Space
	100	4,399		
	300	12,957		
	400	2,194		
500	1,508			
600	43,043			
700	2,862			
<b>WEBER HALL TOTAL ASF</b>		<b>95,737</b>	<b>21%</b>	<b>Percent Research Space</b>
WILLARD HALL	210	14,140		
	215	371		
	220	14,969		
	225	3,225		
	230	359		
	250	212		
	250.21	542		
	250.31	232		
	255	141		
	255.215	49	1,176	Total Research Space
	100	6,470		
300	13,887			
500	154			
600	2,035			
700	84			
<b>WILLARD HALL TOTAL ASF</b>		<b>56,870</b>	<b>2%</b>	<b>Percent Research Space</b>
<b>GRAND TOTAL</b>		<b>2,326,482</b>	<b>574,462</b>	<b>Total Research Space</b>
			<b>25%</b>	<b>Percent Research Space</b>