

Criterion IV - Resources

Criterion IV

The school shall have resources adequate to fulfill its stated mission and goals, its instructional, research, and service objectives.

Expected Documentation

1. A clearly formulated school budget statement, showing sources of all available funds and expenditures by major categories, since the last accreditation visit or for the last five years whichever is longer.
2. A concise statement or chart concerning faculty resources, showing number and percent time of faculty by program area and computing a student faculty ratio for each and for the school as a whole. (FTE faculty and FTE student numbers should be used and these should be consistent with FTE faculty and student numbers presented in sections VIII and IX.)
3. A concise statement or chart concerning the availability of other personnel (administration and staff).
4. A concise statement or chart concerning amount of space available to the school by purpose (offices, classrooms, common space for student use, etc.), by program and location.
5. A concise statement or floor plan concerning laboratory space, including kind, quantity and special features or special equipment.
6. A concise statement concerning the amount, location and types of computer facilities and resources for students, faculty, administration and staff.
7. A concise statement of library/information resources available for school use.
8. A concise statement identifying field experience sites used during the last three years.
9. A concise statement describing other community resources available for instruction, research and service, indicating those where formal agreements exist.
10. Identification of outcome measures by which the school may judge the adequacy of its resources, along with data regarding the school's performance against those measures over the last three years. As a minimum, the school must provide data on student-to-faculty ratio by program, institutional expenditures per full-time-equivalent student, and research dollars per full-time-equivalent faculty.
11. Assessment of the extent to which this criterion is met.

Criterion IV- Resources

1. Budget

Table IV.1.A shows expenditures for fiscal years 1992 through 1998. Expenditures in sponsored activity increased by 29%.

Table IV.1.A
Expenditures by Function

	FY92	FY93	FY94	FY95	FY96	FY97	FY98
Instruction	2,657,844	2,980,292	3,139,642	3,274,386	3,618,303	4,077,460	4,237,752
Research	344,814	435,328	757,285	1,162,255	636,698	1,283,267	691,555
Public Service	60	-	-	-	-	-	9,961
Academic Support	1,346,752	1,309,392	1,491,590	1,267,445	1,934,639	1,583,994	2,029,660
Institutional Support	-	-	-	-	6,070	69,076	315,011
Scholarship & Fellowship	22,784	20,906	44,743	55,382	37,712	41,939	52,671
State Funds	4,372,254	4,745,918	5,433,260	5,759,468	6,233,422	7,055,736	7,336,610
Instruction	802,268	1,716,103	2,143,634	2,705,782	2,521,433	3,375,174	2,932,753
Research	8,138,555	8,888,857	10,614,489	9,891,422	7,236,084	6,946,975	7,970,587
Public Service	1,628,903	1,487,577	2,000,195	3,306,702	3,709,940	4,023,288	3,305,512
Academic Support	-	-	-	-	-	-	-
Institutional Support	603,038	755,994	851,381	661,661	495,997	709,050	263,784
Scholarship & Fellowship	66,949	344,914	9,734	30,523	40,965	35,506	-
Grants & Contracts	11,239,713	13,193,445	15,619,433	16,596,090	14,004,419	15,089,993	14,472,636
Instruction	3,460,112	4,696,395	5,283,276	5,980,168	6,139,736	7,452,634	7,170,505
Research	8,483,369	9,324,185	11,371,774	11,053,677	7,872,782	8,230,242	8,662,142
Public Service	1,628,963	1,487,577	2,000,195	3,306,702	3,709,940	4,023,288	3,315,473
Academic Support	1,346,752	1,309,392	1,491,590	1,267,445	1,934,639	1,583,994	2,029,660
Institutional Support	603,038	755,994	851,381	661,661	502,067	778,126	578,795
Scholarship & Fellowship	89,733	365,820	54,477	85,905	78,677	77,445	52,671
Total Expenditures	15,611,967	17,939,363	21,052,693	22,355,558	20,237,841	22,145,729	21,809,246

As a state university, the Illinois Legislature appropriation is considered the steady-state funding source. Funds generated from grant and contract activity (indirect cost recoveries) and gifts are predictably stable additional sources. Therefore these three categories of available funds are included in Table IV.1.B covering the period FY1992 through FY1998. State appropriations increased 66% in this time period. Indirect cost recoveries show a substantial increase of 115%, a clear demonstration of increased research productivity by our faculty, between FY1992 and FY1998. Finally, gifts and other income funds are twenty-five times greater in FY1998 than FY1992, a reflection of our increased development efforts.

Table IV.1.B
Institutional Budget

State Funds	FY92	FY93	FY94	FY95	FY96	FY97	FY98
State Appropriations	3,857,444	4,012,286	4,134,470	4,303,337	5,067,151	5,273,117	6,413,698
Indirect Cost Recoveries	834,019	837,418	843,870	1,024,889	1,198,288	1,449,958	1,790,264
Gifts & Other Income	2,614	10,356	7,161	9,885	9,885	40,894	65,427
Total Revenue	4,694,077	4,860,060	4,985,501	5,338,111	6,275,324	6,763,969	8,269,389

2. Faculty

The school has organized its faculty into three groupings. Group A is the faculty with recurring support (from state dollars or training grant funds) for teaching. Group B is the faculty with recurring teaching or advising responsibilities although there is no recurring financial support for them, or faculty who may not be a part of the regular academic program but serve in administrative, research or clinical roles. Group C is the typical nonsalaried faculty with occasional or little regular responsibility within the school. For purposes of calculating student faculty ratios, only Group A faculty are included.

As of September 1, 1998, there were 54.63 FTE faculty and a faculty headcount of 63 (Table IV.2). By area of concentration, the greatest number of faculty are in community health sciences. By division, the greatest number of faculty are in the epidemiology and biostatistics division (20 headcount). Detailed information on faculty can be seen in the response to Criterion VIII. Over the last three academic years, the headcount of faculty has remained relatively constant as has the headcount of students, the latter reflecting the admissions cap which was put in place in 1995.

The student-to-faculty ratio for the school as a whole and by area of concentration, seen in Table IV.2, is presented in three ways: 1) headcount students to headcount faculty 2) FTE students to FTE faculty; and 3) headcount students to FTE faculty. The student data reflect those students registered as of the 10th day of class in the fall semester and full-time status is based on registration for 12 or more credit hours. Currently, the student faculty ratio of 7.02 student headcount to faculty headcount and the 5.67 ratio of FTE student to FTE faculty are quite reasonable. The student faculty ratio, no matter how measured, has increased considerably since our last reaccreditation. This is due primarily to the large increase (more than 50%) in our student body. In fall 1995, these ratios had increased to an undesirable level. The capping of admissions and the increased fiscal support from the state (in terms of additional faculty hires) has brought the ratios to their current, more appropriate level.

3. Other Personnel

Academic program, sponsored program and administrative staff of the school are vital to the ability of the school to achieve its mission. Table IV.3 presents data on the state-funded staff and administration resources available in each academic division and the dean's office. This number of state-funded staff is relatively stable. Sponsored program staff, however, fluctuate due to variations in the number and staffing needs of the projects. The number of sponsored program staff on September 1, 1998, was 157. The school also supports both its academic and research missions with temporary staff. This includes extra help, undergraduate students and hourly employees. For 1998, there are 87 such employees.

University of Illinois at Chicago - School of Public Health

Table IV.2

Student/Faculty Ratios

<i>Program Name</i>	Faculty		Students			Ratios	
	<i>Head Ct</i>	<i>FTE</i>	<i>Head Ct</i>	<i>FTE</i>	<i>Head Ct</i>	<i>FTE</i>	<i>Std HC/Fac FTE</i>
Fall 1998							
Biostatistics	8	7.11	29	20.08	3.63	2.82	4.08
Community Health Sciences	19	16.81	133	96.17	7.00	5.72	7.91
Environmental & Occupational Hlth Sciences	10	9.49	47	36.67	4.70	3.86	4.95
Epidemiology	12	8.77	84	69.67	7.00	7.94	9.58
Health Policy & Administration	15	12.45	94	69.00	6.27	5.54	7.55
Credit Nondegree			55	18.25	0.00		
<i>Totals</i>	63	54.63	442	309.83	7.02	5.67	8.09
Fall 1997							
Biostatistics	9	8.11	25	20.67	2.78	2.55	3.08
Community Health Sciences	19	16.61	133	101.50	7.00	6.11	8.01
Environmental & Occupational Hlth Sciences	10	9.53	57	47.58	5.70	4.99	5.98
Epidemiology	12	8.93	71	49.75	5.92	5.57	7.95
Health Policy & Administration	15	12.45	105	72.75	7.00	5.84	8.43
Credit Nondegree			46	14.42	0.00		
<i>Totals</i>	64	55.63	437	306.67	6.83	5.51	7.86
Fall 1996							
Biostatistics	9	8.03	16	10.67	1.78	1.33	1.99
Community Health Sciences	17	14.61	126	84.75	7.41	5.80	8.62
Environmental & Occupational Hlth Sciences	10	9.16	71	52.17	7.10	5.70	7.75
Epidemiology	12	8.92	80	58.00	6.67	6.50	8.97
Health Policy & Administration	15	12.20	107	64.50	7.13	5.29	8.77
Credit Nondegree			34	10.17	0.00		
<i>Totals</i>	62	52.92	434	280.25	7.00	5.30	8.20

Table IV.3

Other Personnel - (Staff and Administration Resources - State Funded FY98)

	FTE	FTE	Head Count	Head Count
	Staff	Administration	Staff	Administration
Community Health Sciences	3.85	0.50	4	1
Environmental & Occupational Health Sciences	3.00	0.50	3	1
Epidemiology & Biostatistics	6.50	0.50	6	1
Health Policy and Administration	2.00	0.50	2	1
Dean's Office				
Executive Affairs	6.00	1.50	6	2
Academic Affairs	1.50	1.00	2	1
Community, Government and Alumni Affairs	1.00	1.00	1	1
Student Affairs	6.00	0.25	6	1
Administration	7.00	0.75	7	1
Dean's Office Total	21.50	4.50	22	6
Grand Total	36.60	6.50	37	10

4. Space

The School's major functions currently operate out of three (3) buildings and approximately 80,000 net square feet (nsf). The School of Public Health East and West buildings total ~55,000 nsf and house Community Health Sciences, Health Policy, Environmental and Occupational Health Sciences, Epidemiology and Biostatistics and the administrative offices. These two buildings are adjacent to each other and are located in the southwest section of the UIC campus. The Health Research and Policy Centers are currently housed in an additional 17,000 square feet leased just off the east-side of campus. Another 8,000 square feet of space are leased throughout the Chicagoland area to accommodate community-based research and service projects. Appendix IV.4 describes the space. A distribution of the east and west building space (in net square feet) by program area follows.

Table IV.4

Space Distribution

Unit	Office	Laboratory	Class	Other	Total
CHS	3,200		400		3,600
EOHS	6,400	7,100	1,000		14,500
E&B	7,100	3,000	1,000	1,500	12,600
HPA	2,500		400		2,900
OD	7,400	1,200	600		9,200
Shared		-	7,100	4,900	12,000
Total	26,600	11,300	10,500	6,400	54,800

On July 1, 1998 the campus acquired an additional building to accommodate School of Public Health needs. All programs in the East building and many of those in the West building will move to this new space. This additional facility (described in Appendix IV.4) will provide 127,000 net square feet for SPH operations bringing the total square footage to more than 151,000, a 140% increase since the last accreditation visit.

5. Laboratories

Current laboratories are described in Appendix IV.5. An external review of the Environmental and Occupational Health Sciences program was commissioned in 1998. As a result more than \$600,000 in laboratory equipment upgrades and enhancements are planned to facilitate research activities as well as enhance the educational experience for students. Plans are underway to construct focus group rooms and additional computer labs in the new building.

6. Computer Facilities and Resources

Campus Resources:

The Academic Computing and Communications Center (ACCC) of the University of Illinois at Chicago (UIC) provides a variety of computing and networking services to the UIC community for use in instruction and research. The ACCC provides access to computing for all faculty, students and staff. Access is achieved through a unique computer account number issued to all users.

The ACCC has a large machine for research (HP v2250 with 14 CPUs and 4GB of memory), a general access machine for faculty and staff (IBM RS/6000 F50 with 4 CPUs and 1.3 GB of memory) and a general access machine for students (Sun Enterprise 4000 with 8 CPUs and 1.5 GB of memory). The ACCC also maintains banks of modems for off-campus access. These dial-up connections provide access to the ACCC systems and other systems and services throughout the United States and the world via the Internet.

The ACCC provides the following services for use by all UIC faculty, students and staff without charge:

- Public Personal Computer Labs and Instructional Facilities: There are 15 public personal computer laboratories (520 machines in total), six of which are instructional facilities that are available for public use when they are not being used for a class. There are both PCs and Macs in the labs and all are connected to the ADN-ii network and to the ACCC's local area network.
- Consulting: The ACCC provides free general consulting on issues related to the ACCC systems, the ADN-ii network, micro-computing and electronic mail among other things.
- Seminars: The ACCC offers free short courses on various topics of general interest (e.g., Word Perfect, MS Windows 95, Internet Tools).
- Electronic Mail: The ACCC provides all faculty, students and staff with free access to electronic mail.
- Instructional Support: The ACCC strongly encourages the use of its facilities for instructional purposes and provides assistance to faculty who wish to integrate computers and computing into their courses. There are currently three high-technology lecture centers on campus that the ACCC supports. To help faculty better use the digital classrooms, the ACCC supports multimedia centers, which are available to faculty who

wish to develop their own class materials and need access to multimedia equipment, software and expertise.

- **Software:** The ACCC offers a wide variety of software on all of its machines. It also distributes some personal computer and workstation software at reduced cost under university site licenses. Available software are listed in the Appendix.

School of Public Health Resources:

The School of Public Health (SPH) operates its own personal computer lab, which is available for public use when not being used for a class. The lab is equipped with 26 pentium-class personal computers, a laser printer, a display device, a projection screen and a white board. An overhead projector is available on request. All of the computers in the lab are connected to the UIC ACCC's local area network via ethernet connection. This connection provides a wide variety of software, and e-mail and Internet access. The SPH lab operates 24 hours a day, 7 days a week and is supported via research assistants at least 30 hours per week. A validated UIC identification card is needed to enter the SPH after normal business hours and on weekends.

Campus funds have been allocated to provide two computer labs in our new location. One will be comparable in size to that described above and will serve as a teaching lab (as its first priority). The second lab, with 10 to 15 personal computers (but with space for expansion), will serve as a place where students can complete their computer-based homework assignments.

The SPH currently provides service workshops that offer introductory classes in word processing, spreadsheet, database and presentation software. Beginning in fall 1998, a "help desk" became available for assisting students and faculty who have questions about the use of these software packages. During each academic year's orientation program, the SPH offers introductory seminars on Campus Computing Resources, Basic Internet, Research on the Internet, Grateful Med, and Ovid.

All faculty in the school have a desktop personal computer. All staff have at least access to a desktop personal computer if not their own personal computer. All students, once they have obtained their UIC identification card and their unique computer account, have access to the SPH computer lab as well as the 15 ACCC computer labs across the campus. An inventory of computer resources is in Table IV.6.

Table IV.6
Distribution of Personal Computers for the SPH

Type of Computer	Faculty	Staff	Students	Total
Desktop	104	136	89	329
Laptop	8	1	1	10
Total	112	137	90	339

7. Library/Information Resources

a. University Library System:

The University Library of the University of Illinois at Chicago (UIC), consisting of the Main Library, the Architecture and Art Library, the Library of Health Sciences, the Mathematics Library and the Science Library, provides collections for students in all curricular areas, for graduate programs, and for faculty research. Library holdings number more than 3.5 million items, including 1.7 million books and bound periodicals, and over 1.8 million other items. The University Library currently receives more than 18,000 periodical titles. Students and faculty have full access to books and other materials shelved on the open stacks. See Appendix IV.7 for additional information.

b. Library of the Health Sciences:

This library supports teaching, research and clinical programs in dentistry, medicine, nursing, pharmacy, the associated health professions and public health. More than 15,000 current periodicals are available as well as other items including books, bound periodicals, multimedia items and government documents. A large number of online data files for searching state, national and international literature in the health sciences are available. Included are ILLINET, MEDLINE, ERIC, Psychological Abstracts Condensates and INFORM. MEDLINE access is free to faculty, staff and students.

c. School of Public Health Reference Center:

UIC SPH has access to a wealth of library materials. The UIC SPH Reference Center provides access to electronically available resources via three 486 computers with pentium processors and two 386 computers, which allow access to the campuswide academic computer network but not the Internet, and printers. During this academic year, the dean's office will review the usage patterns of the computers in the Reference Center to determine whether these resources need to be updated. The purpose of the Reference Center is to provide a facility and personnel with training and experience to give students the guidance they need to:

- obtain successful, quality literature searches
- learn how to use a particular database
- get the best benefit from the Internet
- obtain unique public health information via in-house Web bibliographies

The Reference Center is computer-linked to the catalogs of UIC, UIUC and other cooperating libraries in the network. Documents can be obtained via Interlibrary loan and the Reference Center's Document Delivery System.

The Reference Center has a collection of public-health related journals and newsletters numbering over 100 and also houses a collection of basic public-health reference books (specialized dictionaries, handbooks, manuals). SPH MS theses and PhD and DrPH dissertations also are housed here. A reserve system is in place for students to check out course-specific documents.

8. Field Experience Sites

Appendix IV.8 is a list of field experience sites used by students over the last three academic years. This list is presented by division and includes student and preceptor names.

9. Community Resources Available for Instruction, Research and Service

Resources available for instruction, research and service have expanded extensively during the past five years due to faculty/staff involvement in community boards, advisory councils and volunteering activities. Although a formal agreement only exists with some of the community resources, they are necessary only whenever there is a funded research activity or a commitment of stipend to be paid to students as part of their service while working with an agency or for a student's practicum. Appendix IV.9 is a list of sites available for instruction, research and service.

10. Outcome Measures

Outcome measures include FTE student to FTE faculty ratio, institutional expenditures per FTE student, research expenditures per FTE faculty, and amount of indirect cost recoveries.

Data on the student faculty ratio are presented in Table IV.2.

Institutional expenditures per FTE students have increased for each of the past three years. (See Table IV.10.1).

Table IV.10.1
Institutional Expenditures per Full-Time-Equivalent Student

FY	Institutional Expenditures	FTE Students	Expenditures per FTE Student
1996	\$ 6,233,422	280.23	\$ 22,244
1997	\$ 7,055,736	306.67	\$ 23,008
1998	\$ 7,336,610	309.83	\$ 23,679

Research expenditures per Full-time-equivalent faculty are shown in Table IV.10.2. Expenditures have averaged \$244,000 over these three years with fluctuations, both up and down of slightly more than 2% .

Table IV.10.2
Research Expenditures per Full-Time-Equivalent Faculty

FY	Sponsored Projects	FTE Faculty*	Expenditures per FTE Faculty
1996	\$ 14,004,419	57.9	\$ 241,873
1997	\$ 15,089,993	61.0	\$ 247,377
1998	\$ 14,520,720	60.1	\$ 241,770

*Faculty groups A & B

Indirect cost recovery dollars (ICR) are shown in Table IV.1.B. Since FY92, ICR funds have more than doubled. ICR dollars remained steady for FY92 through FY94, but began to increase substantially in FY95 (approximately 21% each fiscal year).

11. Assessment

We feel the school's budget is adequate to run the school and that the school has adequate other resources to fulfill its mission and objectives. This criterion is met.