

RESOURCES

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

IV.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.

The University of Arizona Mel and Zuckerman College of Public Health (MEZCOPH) operates on a fiscal year cycle beginning on July 1 and ending on June 30. TABLE IV.1-1 illustrates the sources and expenditures of total funds for MEZCOPH for fiscal years 2000/2001 through 2004/2005. The University's annual financial report can also be made available at the time of the site review in October 2005.

State support has shown an increase of 98% over the past 5-year period from \$1,854,792 (FY00/01) to \$3,666,877 (FY04/05). MEZCOPH received three major state allocation increases primarily due to the following: 1) In fiscal year 2001/2002, there was a \$484,006 increase in state dollars due to the reassignment of the Rural Health Office from the College of Medicine to the College of Public Health. 2) In fiscal year 2003/2004 MEZCOPH received an increase in permanent state dollars totaling \$718,366 (\$600,000 was received through an allocation from the Provost for faculty and administrative program needs and \$118,366 was appropriated from the Arizona State Legislature for employee salary increases). 3) At the beginning of fiscal year 2004/2005 an additional \$500,000 in temporary state dollars was received from the Provost to cover faculty and staff salaries within the academic programs. These "temporary" dollars were replaced with permanent funding on July 1, 2005. A second allocation of temporary funding (\$1,500,000) was deposited in mid-July 2005. The final allocation of \$1,500,000 in permanent state dollars (again replacing the "temporary" funding) will be received by the end of our current fiscal period (June 30, 2006). This final infusion of funds will provide permanent funding support to salaries for tenured and tenure-eligible faculty, teaching assistants and administrative support staff and to augment the general operating budget of the College.

Budget cuts have been severe during the past few years for all three Arizona universities due to limited funding from the Arizona legislature and ever-increasing personnel costs (employee related expenses). Prior to fiscal year 2004-2005, MEZCOPH was able to avoid most of the mandated state funding cuts that were imposed by the University of Arizona leadership due to a special dispensation from the Provost and its status as a new college. In fiscal year 2004-2005, \$48,000 in permanent state dollars were returned to the institution to meet a fringe benefit increase mandated by the Arizona Legislature. No funds

were provided by the Legislature to support this increase thereby making it the University's responsibility to identify and obtain funding from its administrative and academic units.

The program fee assessment plan that was approved in April of 2002 by the Arizona Board of Regents was put on hold until fiscal year 2005-2006. Beginning in the fall of the Academic Year 2005/2006, new students in the Masters of Public Health degree program will be assessed a \$300 per semester program fee. Ninety percent of the funds generated will be returned to the College and used to augment public health scholarships (minimum of 15%) and to offset instructional needs. With these funds, MEZCOPH will be able to provide additional sections of public health core courses and build upon the distance education capabilities within the college.

Grants and contracts represent 70% of the total resources for MEZCOPH. Grant funding shown reflects only those grants and contracts that come directly through the Mel and Enid Zuckerman College of Public Health. The research grant and contract funds received from outside agencies and sponsors provide the indirect cost dollars that support both the college and the University of Arizona (See TABLE IV.1-2).

MEZCOPH received two large grant awards during fiscal years 2002/2003 and 2004/2005 focusing on health disparities and minority health. The National Center on Minority Health and Health Disparities awarded a 5-year \$6 million dollar "center" grant focusing on health disparities among American Indians and Hispanics in the areas of diabetes and substance abuse. The grant allowed us to establish the Center for Health Equality. The second award provided continued funding for a 5-year period of \$3.6 million dollars for the Arizona Prevention Research Center (PRC), Southwest Center for Community Health Promotion, a Health Promotion and Disease Prevention Research Center funded by the Centers for Disease Control. The Arizona Prevention Research Center is the only PRC that works primarily along the U.S.-Mexico border and that focuses on underserved, multi-ethnic communities.

Fiscal year 2003-2004 was the year that construction began on the new home for the Mel and Enid Zuckerman College of Public Health. Almost \$2 million dollars in private gifts donated to the University of Arizona Foundation for the College's building fund were transferred to the University of Arizona to provide cash flow for the construction project.

The completion of our new building, Roy P. Drachman Hall, will offer an opportunity to provide additional income via the indirect cost dollars generated from grants and contracts. Currently a majority of the proposals submitted to sponsors are calculated at the "off-campus" indirect cost rate (25% prior to July 1, 2002, 26% thereafter), due to the necessity of leasing office and research

space to accommodate MEZCOPH employees. Drachman Hall will provide an "on-campus" office and research environment for all of our faculty and more than 60% of our research and administrative support staff, allowing us to use the currently negotiated on-campus rate of 50.5% (51% in July, 2006).

Funds received from the indirect cost dollars are used for the administrative support and the general operational needs of the MEZCOPH. The University of Arizona's Vice-President for Research has a standing policy to return a portion of the indirect cost dollars earned at an institutional level to each college of origin. A majority of the college's indirect cost reallocation is based on the maximum return rate of 30% for grants and contracts earning the full federally negotiated rate for on-campus or off-campus sites. Grants and contracts funded at a lesser indirect cost rate on their research projects receive a lesser rate of return to the MEZCOPH of 27.9% down to 1.5%. The university retains any indirect cost dollars not re-distributed to colleges and special programs to meet administrative commitments and facility needs at the institutional level.

MEZCOPH currently re-allocates indirect cost dollars to the divisions and to individual faculty, providing funds for general needs at the discretion of the unit or faculty member (e.g. supplies, telecommunications, salary support for students, travel, etc.) MEZCOPH allocations to the division are based on a formula of \$750 per faculty FTE. Allocations to the faculty are based on percentages (12.5% of the college allocation is returned to the faculty and 87.5% of the college allocation is retained by the college).

Gifts and endowments made to the MEZCOPH are obtained through fund-raising efforts and philanthropy via gifts from private individuals, foundations and corporations. This funding supports faculty, programs, student scholarships, recruitment and retention needs.

Endowments are created by donors to provide long-term sources of funding. Currently, 4 percent of interest income is expended to the project, 1.5 percent is retained for management and administration of the fund, and the remaining growth is returned to principle. This policy provides for continued growth of the principle and protection against inflation through capitalization of earnings beyond the income awarded.

Privately endowed funds of \$2 million and more are designated as "endowed chairs or programs." Endowed chairs and programs allow the MEZCOPH to attract and retain faculty who have earned national distinction in public health. An endowed fund is first established through a minimum gift of cash or stock totaling \$25,000. Endowed funds also may be created through planned giving.

Our fundraising efforts in the community have remained focused on achieving

stronger prevention programs. Our donor base has increased significantly as a result of the efforts of our Development Office staff, with the number of gifts to support Drachman Hall and the College programs for 2004 exceeding 300 in number and totaling more than \$640,000.

TABLE IV.1-1 Expenditures by Sources of Funding and Use by Fiscal Year

Mel and Enid Zuckerman College of Public Health Expenditures by Sources of Funding and Use By Fiscal Year												
	FY 01 00 -	July June 01	FY 02 01 -	July June 02	FY 03 02 -	July June 03	FY 04 03 -	July June 04	FY05 04 -	July June 05		
Source of Funds											Total	
Foundation	\$	281,083	\$	106,646	\$	195,561	\$	1,988,183	\$	11,684	\$	2,583,157
State Funds	\$	1,854,792	\$	2,338,798	\$	2,359,007	\$	3,077,373	\$	3,666,877	\$	13,296,847
Designated Funds	\$	554,231	\$	497,782	\$	235,373	\$	505,195	\$	568,753	\$	2,361,334
Auxiliary Funds	\$	50,739	\$	140,460	\$	179,059	\$	174,808	\$	148,245	\$	693,311
Grants & Contracts	\$	13,396,909	\$	12,385,518	\$	12,342,889	\$	13,756,307	\$	12,546,208	\$	64,427,831
Other Restricted Funds	\$	114,046	\$	358,210	\$	618,890	\$	170,452	\$	1,347,628	\$	2,609,226
Total Resources	\$	16,251,800	\$	15,827,414	\$	15,930,779	\$	19,672,318	\$	18,289,395	\$	85,971,706
Expenditures											Total	
Personnel	\$	9,138,150	\$	9,428,875	\$	9,381,568	\$	10,552,105	\$	10,599,732	\$	49,100,430
Operations	\$	4,713,347	\$	3,873,818	\$	4,324,946	\$	4,367,055	\$	5,154,586	\$	22,433,752
Travel	\$	296,815	\$	306,592	\$	299,988	\$	338,311	\$	414,922	\$	1,656,628
Capital	\$	166,938	\$	394,058	\$	39,060	\$	46,959	\$	46,476	\$	693,491
Student Support	\$	30,892	\$	57,429	\$	114,128	\$	386,854	\$	368,793	\$	958,096
IDC Expense	\$	1,903,653	\$	1,763,987	\$	1,767,145	\$	2,009,734	\$	1,700,249	\$	9,144,768
FSO Service Charge	\$	2,005	\$	2,655	\$	3,944	\$	5,143	\$	4,637	\$	18,384
Building Expense	\$	-	\$	-	\$	-	\$	1,966,157			\$	1,966,157
Total Expenditures	\$	16,251,800	\$	15,827,414	\$	15,930,779	\$	19,672,318	\$	18,289,395	\$	85,971,706

TABLE IV.1-1 Detail:

Source of Funds

1. Foundation: Gift and endowment funds external to the university and administered by the University of Arizona Foundation. Note that 99% of gift dollars received during FY03-04 were utilized to cover building construction costs.

2. State: Appropriated dollars from Arizona state legislature.
3. Designated Funds: Category includes instructional activities such as Summer Session, Continuing Education, and international and extension programs. Also covers unrestricted gifts that have been designated for a specific purpose.
4. Auxiliary Funds: Operating funds that generate revenue from an established auxiliary enterprise (e.g. MEZCOPH's Office of Information Technology).
5. Grants and Contracts: Funds received from federal, state, other government agencies, or other private organizations provided on a contractual or grant basis for a specific purpose.
6. Other Restricted Funds: Current operating funds received from outside sources with specific restrictions on how the monies are to be spent that are not more appropriately classified as sponsored projects (e.g. scholarships, student aid, and restricted gifts).

Expenditures

1. Personnel: Employee salaries, wages and employee related expenses.
2. Operations: Administrative, teaching, and research operating costs.
3. Travel: Administrative, teaching, and research related travel costs.
4. Capital: Equipment and capital improvement purchases
5. Student Support: Student stipends, tuition and fees and instructional supplies.
6. IDC Expense: Total indirect costs tied to sponsored research grants and contracts.
7. FSO Service Charge: University of Arizona Financial Services Office fee tied to Auxiliary Accounts.
8. Building Expense: Direct Expenditures for Roy P. Drachman Hall building planning, development and construction. Note that 99% of gift dollars received during FY03-04 were utilized to cover building construction costs.

TABLE IV.1-2 Indirect Costs Distribution from Central Administration

Mel and Enid Zuckerman College of Public Health
 University of Arizona
 Indirect Costs Distribution from Central Administration

	FY 01 July 00 - June 01	FY 02 July 01 - June 02	FY 03 July 02 - June 03	FY 04 July 03 - June 04	FY05 July 03 - June 04	Total
Total IDC Expended	\$ 1,903,653	\$ 1,763,987	\$ 1,767,145	\$ 2,009,734	\$ 1,700,249	\$ 9,144,768
<u>IDC Distribution</u>						
University Allocation	\$ 1,483,428	\$ 1,275,624	\$ 1,338,233	\$ 1,514,683	\$ 1,223,900	\$ 6,835,868
MEZCOPH Allocation	\$ 420,225	\$ 488,363	\$ 428,912	\$ 495,051	\$ 476,349	\$ 2,308,900
Total Earned	\$ 1,903,653	\$ 1,763,987	\$ 1,767,145	\$ 2,009,734	\$ 1,700,249	\$ 9,144,768
Average Return (%)	22.075%	27.685%	24.271%	24.633%	28.016%	25.248%
MEZCOPH Allocation	\$ 420,225	\$ 488,363	\$ 428,912	\$ 495,051	\$ 476,349	\$ 2,308,900
Adjustments - Transfers In/Out*	\$ (48,983)	\$ (197,854)	\$ (287,235)	\$ (142,536)	\$ (158,383)	\$ (834,991)
Total Earned Less Adj	\$ 371,242	\$ 290,509	\$ 141,677	\$ 352,515	\$ 317,966	\$ 1,473,909

*Adjustments - Transfers In/Out redistribute IDC earnings to other colleges per agreements with collaborating faculty and their respective departments. IDC redistribution includes office space for some members until new building is completed.

**Indirect allocation to college is based on fiscal period that dollars are received. Total IDC is based on fiscal period

TABLE IV-2 Detail:

The category entitled *Total Indirect Costs Expended* reflects MEZCOPH's total indirect dollars expended by grants and contracts for time frame specified.

The category entitled *Indirect Cost Distribution* reflects distribution of dollars between the MEZCOPH and the University of Arizona's Central Administration. The IDC distribution is based on the institutional policy mandated by the Vice President for Research Office (described on pages 2 and 3 of Criterion IV-1).

MEZCOPH Allocation: Beginning January 2000, MEZCOPH began receiving the full "college" allocation. Indirect cost distributions from the Vice President for Research for Fiscal Years 2000/2001 through 2004/2005 reflect the arrangement that redistributes up to 30% of the indirect costs dollars back to the college. The average return of indirect cost revenue to the College is based on the average percent received from Central Administration vs. the average percent retained by Central Administration.

IV.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.)

The MPH program is taught by faculty across all divisions, which has been reflected in the totals and ratios accordingly. Instructional responsibility for the Epidemiology Graduate Program rests with the Epidemiology and Biostatistics division; therefore, the student/faculty ratio reflected is based on the Epidemiology program's student FTE and the FTE of the Epidemiology and Biostatistics faculty only. Likewise, the instructional responsibility for the Undergraduate Program resides with the Health Promotion Sciences division, so the undergraduate students have been compared to only the HPS faculty who teach in the Undergraduate Program.

Because the dissolution of the Tri-University Agreement did not take effect until July 1, 2004 the students and faculty at NAU and ASU are counted in the following tables. While faculty at NAU and ASU are no longer joint faculty at MEZCOPH, their participation has helped us to assure that our MPH students at NAU and ASU are able to complete their program.

The following tables provide Student to Faculty ratios for the past three fiscal years. A breakdown of faculty FTEs in each concentration is provided in Section VIII, TABLES VIII.A.1-1 and VIII.A.1-3.

**TABLE IV.2-1
Fiscal Year 2002-2003
Student FTE, Primary Faculty FTE and Student/Faculty Ratios by Each
MPH Concentration**

University of Arizona
Mel and Enid Zuckerman College of Public Health
Student FTE, Primary Faculty FTE and Student/Faculty Ratios by Each MPH Concentration

Fiscal Year 2002-2003								
Concentration	Site	Part-Time Headcount	Full-Time Headcount	Total Headcount	Attempted Units*	Student FTE	Faculty FTE	Student to Faculty Ratio
AD&POL*	PHX	24	10	34	374	20.78	1.50	16.30
CHP	PHX	18	8	26	335	18.81	1.30	14.47
Phoenix Total	PHX	42	18	60	709	39.59	2.80	
AD&POL*	TUC	4	1	5	66	3.67		
BIOS	TUC	1	4	5	96	5.33	4.00	1.33
CHP**	TUC	15	6	21	265	14.72	6.25	3.56
ENVOCC	TUC	12	5	17	197	10.94	4.63	2.36
EPI	TUC	15	9	24	292	16.22	7.86	2.06
FCH	TUC	7	12	19	352	19.56	6.98	2.80
HEBS	TUC	9	2	11	133	7.39	4.01	1.84
MDMPH**	TUC	18	0	18	136	7.56		
Tucson Total	TUC	81	39	120	1537	85.39	33.73	
ED&PRO	FLG	1	0	1	9	0.50		
HEBS	FLG	7	5	12	169	9.39	0.90	10.43
Flagstaff Total	FLG	8	5	13	178	9.89	0.90	
Program Total 02-03		131	62	193	2424	134.87	37.43	3.60
*AD&POL Phoenix and Tucson student data combined to obtain ratio with faculty FTE								
**CHP AND MDMPH Tucson student data combined to obtain ratio with faculty FTE								

TABLE IV.2-2
Fiscal Year 2003-2004

Student FTE, Primary Faculty FTE and Student/Faculty Ratios by Each MPH Concentration

Fiscal Year 2003-2004								
Concentration	Site	Part-Time Headcount	Full-Time Headcount	Total Headcount	Attempted Units*	Student FTE	Faculty FTE	Student to Faculty Ratio
AD&POL	PHX	22	4	26	265	14.72	1.50	9.81
CHP	PHX	23	9	32	416	23.11	0.80	28.89
Phoenix Total	PHX	45	13	58	681	37.83	2.30	
BIOS	TUC	5	5	10	141	7.83	5.00	1.57
CHP**	TUC	20	8	28	324	18.00	2.50	11.24
ENVOCC	TUC	9	9	18	266	14.78	4.58	3.23
EPI	TUC	18	14	32	479	26.61	9.38	2.84
FCH	TUC	8	12	20	330	18.33	6.98	2.63
HEBS	TUC	6	2	8	109	6.06	4.11	1.47
MDMPH**	TUC	15	3	18	182	10.11		
PHPM	TUC	2	5	7	129	7.17	3.70	1.94
Tucson Total	TUC	83	58	141	1960	108.89	36.25	
HEBS	FLG	7	2	9	104	5.78	0.90	6.42
Flagstaff Total	FLG	7	2	9	104	5.78	0.90	
Program Total 03-04		135	73	208	2745	152.50	39.45	3.87
**CHP AND MDMPH Tucson student data combined to obtain ratio with faculty FTE								

**TABLE IV.2-3
Fiscal Year 2004-2005**

Student FTE, Primary Faculty FTE and Student/Faculty Ratios by Each MPH Concentration

Fiscal Year 2004-2005								
Concentration	Site	Part-Time Headcount	Full-Time Headcount	Total Headcount	Attempted Units*	Student FTE	Faculty FTE	Student to Faculty Ratio
HAP	PHX	13	6	19	220	12.22	1.25	9.776
CHP	PHX	14	13	27	413	22.94	0.60	38.23
Phoenix Total	PHX	27	19	46	633	35.16	1.85	
PHPM/CHP**	TUC	21	15	36	448	24.88	5.14	7.05
BIOS	TUC	12	1	13	140	7.78	5.00	1.56
ENVOCC	TUC	6	7	13	170	9.44	2.91	3.24
EPI	TUC	18	12	30	453	25.17	8.60	2.93
FCH	TUC	13	13	26	391	21.72	6.80	3.19
HEBS	TUC	7	7	14	231	12.83	4.31	2.98
MDMPH**	TUC	22	3	25	205	11.38		
Tucson Total	TUC	99	58	157	2038	113.20	32.76	
HEBS	FLG	2	3	5	68	3.78	0.2	18.9
Flagstaff Total	FLG	2	3	5	68	3.78	0.20	
Program Total 04-05		128	80	208	2739	152.14	34.81	4.37
**PHPM/CHP AND MDMPH Tucson student data combined to obtain ratio with faculty FTE								

TABLE IV.2-4 Student FTE, Primary Faculty FTE and Student Faculty Ratios by Academic Degree Program

Student FTE, Primary Faculty FTE and Student/Faculty Ratios by Academic Degree Program															
	FY2002-2003					FY2003-2004					FY2004-2005				
	BSHS	MS	PhD	Total Faculty FTE	Students/Faculty Ratio	BSHS	MS	PhD	Total Faculty FTE	Students/Faculty Ratio	BSHS**	MS	PhD	Total Faculty FTE	Students/Faculty Ratio
Epidemiology*		12.28	21.00	11.86	2.81		7.18	28.50	14.38	2.48		7.11	24.06	13.6	2.29
Health Education Program**	145.05			2.25	64.47	122.87			2.25	54.61	191.00			2.25	84.89

*Faculty included under Epidemiology Degree Program includes members of the Biostatistics and Epidemiology concentrations (Epidemiology and Biostatistics Division).

**Health Education Program undergraduate faculty are in addition to those listed in the MPH concentrations and Epidemiology Academic Degree Program.

TABLE IV.2-5 Student to Instructional Faculty Ratio – All Students

Table IV.2-5 University of Arizona Mel and Enid Zuckerman College of Public Health Student to Instructional Faculty Ratio - All Students									
	FY2002-2003			FY2003-2004			FY2004-2005		
	Student FTE	Faculty FTE	Students/Faculty Ratio	Student FTE	Faculty FTE	Students/Faculty Ratio	Student FTE	Faculty FTE*	Students/Faculty Ratio
TOTAL	279.92	39.86	7.02	275.37	41.7	6.60	343.14	37.06	9.26

*FY0405 faculty FTE includes 32.76 Tucson total MPH plus 2.25 Health Education = 35.01 UA FTE + 2.05 ASU and NAU FTE (TABLE VIII.A-1 AND TABLE VIII.A-3)

IV.3. A concise statement or chart concerning the availability of other personnel (administration and staff).

The Mel and Enid Zuckerman College of Public Health's senior administrative component consists of the Dean, three Associate Deans, two Assistant Deans, three Educational Program Chairs, three Division Directors, and one Center

Director. Presently, there are 24.63 FTE management staff (management at the research and administrative levels), 81.54 FTE research staff (at all levels), and 34.18 FTE administrative support staff (combined research and administration). TABLE IV.3-1 represents staff data from all funding sources available to the College.

TABLE IV.3-1 Number of Administrative and Research Employee FTE by Office or Department – FY0405

Table IV.3-1 Number of Administrative and Research Employee FTE by Office or Department - FY0405				
FTE and Classification of Employees				
Office or Department	Administrative Officers*	Management Staff**	Program Support Staff	Administrative Support Staff
Office of the Dean	1.00	1.00		
Office of the Associate Dean - Academic Affairs	0.75			1.00
Asst. Dean - Student Services & Academic Programs	1.00	1.00	1.00	6.65
MPH Program Chair	0.20			
Epidemiology Graduate Program Chair	0.20			
Health Education Undergraduate Program Director	0.20			
Office of the Associate Dean - Community Programs	0.75			1.00
Rural Health Office	0.20		15.02	1.80
Office of the Associate Dean - Research	0.50			1.00
Center for Health Equality		1.00	2.33	1.00
Center on Aging	0.05			
Financial Affairs & Physical Resources	1.00	1.00		7.30
Development Office		1.00		1.25
Public Affairs & Communications		1.00		0.50
Office of Information Technology		1.00		3.49
Epidemiology & Biostatistics	0.15	6.50	7.00	1.50
Health Promotion Sciences	0.15	5.63	49.48	5.75
Environmental & Community Health	0.15	5.50	6.71	1.94
Total	6.30	24.63	81.54	34.18
*Administrative Officers includes administrative component of faculty and professional positions **Management Staff includes managerial staff and research component of professional positions.				

IV.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.

TABLE IV.4-1 Total Space – Owned and Leased

Mel and Enid Zuckerman College of Public Health Total Space - Owned and Leased By Building (Effective through October 2005) <i>PRIOR TO COMPLETION OF DRACHMAN HALL</i>			
Building	Building #	Designated Use	Net Square Feet
Babcock C (Tucson, AZ)	151.03	Office	614
Arizona Health Sciences Center (Tucson, AZ)	201	Office	2,985
Arizona Health Sciences Center (Phoenix, AZ)		Office/Teaching	248
Biomedical Research Laboratories (AHSC, Tucson, AZ)	209	Research	1,369
1807 E. Elm Street (Tucson, AZ)	219.04	Office/Research	1,619
1821 E. Elm Street (Tucson, AZ)	219.03	Office	1,185
1145 N. Campbell (Tucson, AZ)	228	Office/Research	1,630
240 W. Osborn, Suite 200 (Phoenix, AZ)	298	Research	1,952
2501 E. Lee Street (Tucson, AZ)	405	Research	2,747
1834 E. Mabel Street (Tucson, AZ)	425	Office	2,041
2501 E. Elm Street (Tucson, AZ)	445	Office/Research/Teaching	4,851
2231 E. Speedway (Tucson, AZ)	459	Office	1,702
1435 N. Fremont Avenue (Tucson, AZ)	468	Office/Research/Teaching	13,613
1632 E. Lester Street (Tucson, AZ)	477	Research	2,249
1540 E. Drachman (Tucson, AZ)	479	Research	1,765
2302 E. Speedway (Tucson, AZ)	482	Research	4,662
8619 S. Avenida del Yaqui (Guadalupe, AZ)	510	Research	1,500
10510 N.93rd Street, #100 (Scottsdale, AZ)	512	Research	1,191
500 N. Tucson Blvd., Suite 110 (Tucson, AZ)	541	Research	977
48 N. Tucson Blvd., Suite 101 (Tucson, AZ)	543	Office	485
7904 S. Camino Cocoim (Tucson, AZ)	n/a	Research	1,500
1218 E. Yandell (El Paso, TX)	n/a	Research	590
1932 11th Street (Douglas, AZ)	n/a	Research	140
UA - Classrooms (AHSC, Tucson, AZ)**		Teaching	15,194
Total Net Square Feet			66,195
**Classroom space is used by MEZCOPH but not specifically assigned in our inventory			

At the time of the self-study submission, the Mel and Enid Zuckerman College of Public Health was operating from seventeen sites in Tucson, five administrative and field sites within the state of Arizona (Phoenix-2, Scottsdale, Guadalupe, and Douglas) and one field site in Texas (El Paso). In Tucson, faculty offices, wet laboratory, and central administrative space utilized by MEZCOPH staff occupy space that has been assigned by UA central Space Management. A majority of the university owned-buildings that are assigned to MEZCOPH are within a 2-

mile radius on the campus (small houses, Arizona Health Science Center space, office and research buildings). Additional research office and laboratory space is leased due to the limited availability of space in university-owned buildings. Research grant and contract dollars provide the funding for these project-related space requests. Leased facilities are located in close proximity to the main campus or at the field site areas (such as Guadalupe, Arizona). A variety of projects provide space for our staff at no-cost to MEZCOPH or the project (e.g., Hardrock Chapter House in Hardrock, Arizona on the Navajo Nation).

To date, instructional space (classrooms, conference rooms and other general operating areas) has been made available to meet our day-to-day requirements through the University of Arizona's Health Sciences complex. Unfortunately, the space is assigned on a first-come, first-serve basis and a large number of the rooms have home departments that are given a priority assignment.

In late Fall of 2005, the Mel and Enid Zuckerman College of Public Health will have a permanent home with the completion of the Roy P. Drachman Hall complex. Drachman Hall was named in honor of Roy P. Drachman, a leader in the state of Arizona and long-time benefactor to the MEZCOPH. This new, state-of-the-art facility will provide office and instructional space for faculty, administrators and researchers.

A \$5 million pledge from Mel and Enid Zuckerman to our building fund made the dream of a home for MEZCOPH a reality. Planning for the new facility began in the spring of 2000. In 2001 plans were made to combine the requirement of a permanent home for the MEZCOPH with the needs of additional combined instructional space for the colleges of Public Health, Pharmacy and Nursing into a \$30 million, 112,951 GSF facility (68,267 NSF). Funding for the instructional space was obtained from the University of Arizona's Central Administration with the commitment of a 50/50 match of bonding dollars to an equal proportion of private donations. Construction on the new facility began in April 2004. Pictorial representations of Drachman Hall are shown in FIGURES IV.4-1 AND IV.4-2.

DRACHMAN HALL

FIGURE IV.4-1



FIGURE IV.4-2



Drachman Hall will provide over 18,500 net square feet (NSF) of permanently assigned space to the Mel and Enid Zuckerman College of Public Health. This new space will house the College's administrative and support offices, the academic divisions, research programs (such as the Rural Health Office, Border Health Initiatives, Prevention Research Center, etc.), and employee offices (faculty, research staff, and students). Some research programs will remain off-site due to their unique program needs and requirements for a community setting. This building will not provide wet-laboratory type space, thereby making it necessary to retain currently assigned university and off-campus wet-lab type facilities and adjacent offices to meet specific research and instruction needs.

The new facility also includes approximately 27,785 NSF of instructional space for the colleges of Public Health, Nursing and Pharmacy. Instructional space is accessible to MEZCOPH's faculty, students and administrators. The new instructional space will include: three lecture halls with 125 workstations each; one distributed learning classroom; two collaborative classrooms with 60 workstations each; two collaborative classrooms with 40 workstations each; one collaborative classroom with 20 workstations; and one computer classroom that will be able to accommodate 50 students. In addition, twelve breakout or discussion rooms and related service areas will be available for instructional or research needs. The new facility offers MEZCOPH the position of home department, allowing priority assignment for all instructional and conference space.

Teleconferencing capabilities will be available in designated Drachman Hall classrooms. All services will be provided by the internal Information Technology support group or through Biomedical Communications, an auxiliary unit providing technical support to the Arizona Health Sciences colleges. The Division of Biomedical Communications provides communications media planning and production services in support of the public service, research and instructional programs offered by the Arizona Health Sciences colleges. Teleconference services include microwave distribution and reception facilities, satellite uplink and/or downlink equipment and facilities, video engineering, conference origination, and teleconference video production. Programs can be distributed to various conference rooms in the Arizona Health Sciences facilities, to health care facilities throughout Tucson, and to regional sites across Arizona. The Health Sciences system connects with Northern Arizona University Health Professions, the Phoenix Programs office and various Health Sciences Center rooms in Tucson. Most classes and many events are also video streamed either live or archived at the Biomedical Communications streaming site. Other non-University affiliated conference centers can be connected allowing for communication throughout the world using Basic Rate ISDN and Internet Protocol devices.

The following TABLE IV.4-2 reflects proposed changes to MEZCOPH's inventory

of assignable space at post-construction (in the late Fall 2005).

TABLE IV.4-2 MEZCOPH Total Space – Owned and Leased by Building

Mel and Enid Zuckerman College of Public Health			
Total Space - Owned and Leased			
By Building (Effective November 2005)			
<i>AFTER COMPLETION OF DRACHMAN HALL</i>			
Building	Building #	Designated Use	Net Square Feet
Drachman Hall (Tucson, AZ)	202	Office/Teaching/ Research	18,571
Arizona Health Sciences Center (Phoenix, AZ)		Office/Teaching	248
Biomedical Research Laboratories (AHSC, Tucson, AZ)	209	Research	1,369
1807 E. Elm Street (Tucson, AZ)	219.04	Office/Research	1,619
1821 E. Elm Street (Tucson, AZ)	219.03	Office	1,185
1145 N. Campbell (Tucson, AZ)	228	Office/Research	1,630
1834 E. Mabel Street (Tucson, AZ)	425	Office	2,041
1435 N. Fremont Avenue (Tucson, AZ)	468	Office/Research/Teaching	13,613
1632 E. Lester Street (Tucson, AZ)	477	Research	2,249
1540 E. Drachman (Tucson, AZ)	479	Research	1,765
2302 E. Speedway (Tucson, AZ)	482	Research	4,662
8619 S. Avenida del Yaqui (Guadalupe, AZ)	510	Research	1,500
10510 N. 93rd Street, #100 (Scottsdale, AZ)	512	Research	1,191
7904 S. Camino Cocoim (Tucson, AZ)	n/a	Research	1,500
1932 11th Street (Douglas, AZ)	n/a	Research	140
Drachman Hall - Common Area (Instruction & Conference)**		Teaching	27,785
Total Net Square Feet			81,068
**Classroom and conference space is jointly used by the University of Arizona's colleges of public of health, nursing, and pharmacy.			

Floor plans for allocated and leased space will be made available upon request. Meetings and tours of the newly completed Roy P. Drachman Hall facility will be highlighted at the October 2005 site visit.

IV.5. A concise statement or floor plan concerning laboratory space, including kind, quantity and special features or special equipment.

Environmental and Occupational Health (EOH) Laboratory located at 1435 N. Fremont (Building 468):

The laboratory in Environmental & Occupational Health (EOH) consists of an industrial hygiene chemistry section of approximately 1,000 square feet with stainless steel workbenches and a calibration-activities area of about 250 square feet. Storage rooms for chemical and supplies storage and a microscopy alcove are adjacent to the calibration and refrigeration units.

Equipment in the EOH Laboratory includes: Biosafety Level II hood; 4 DeVilbiss Ultrasonic Nebulizers for sputum induction; Eppendorf Vacuum Concentrator 5301; Eppendorf Microcentrifuge 5415D; Eppendorf Thermo Stat Plus; Thermo EC 105 Power Supply; CBS Scientific Horizontal Gel Electrophoresis Chamber; IEC Centra-7r Centrifuge; Shandon Southern Cytospin; Bausch & Lomb Phase Contrast Microscope; Vortex Genie-2; Rainin Pipettors; Drummond Pipet-Aid; Sartorius Universal electronic Scale; (2) Forma -80 °C freezers; -20 °C Freezer; 2 Refrigerator/Freezer Units; VWR incubator, BMG Labtech FLUOstar Optima luminometer, Biotek EL808-I Ultra microplate reader, Thermo Spectronic Biomate spectrophotometer, Eppendorf Mastercycler Gradient #5331, Puritan Bennett Spirometer, Turner Design Fluometer, American Scientific Shaking Water Bath YB 521, Labline Plate Shaker, Tri Continent Multi-Wash II, Eppendorf Centrifuge 5801 R Refrigerated, Ames Aliquot Mixer, Fume Hood, TDx Centrifuge, Kahn Automatic Electrobalance, Science Electronic (Grant) Water Bath, Vacuum Pump, Sanyo Compact Refrigerator, and standard laboratory glassware, Walk In Refrigerator (Cold Room).

EOH Computer Equipment: 3 computers/monitors. No printer.

Health and Environment Exposure Laboratories located at 1435 N. Fremont (Building 468):

The Health and Environment Exposure Laboratory consists of a microscope and video clean room; dry and wet laboratory areas; weight room; pump calibration and maintenance area; field preparation and sample handling lab; equipment storage areas; computer data entry laboratory; and project archive. The total area size of the Health and Environment Exposure Lab is 2,232 square feet.

Equipment in the Health and Environment Exposure Laboratory includes: microscopes, video-tracking and programming equipment, and computers (Microscope and Video Cleanroom); bench space, fume hood with a sink; still, refrigerator, freezer, computer connections for automated data entry from lab equipment such as XRF, analytical scales, etc. (Wet Lab); special heat, cooling and humidity equipment for filter calibration and computer connectivity for automated equipment (Weight room with constant temp and humidity); gilibrators, flow calibration area (Pump Calibration and Maintenance area); two chest freezers, three refrigerator freezers on separate circuits, bench space, and computer outlets (Field Preparation and Sample Handling Lab); and six computer stations and two major servers (Computer Data Entry Laboratory).

MEZCOPH recently acquired additional laboratory and office space at the 1435 N. Fremont location from the College of Medicine's Medical Technology program. The additional space will be used to meet the needs of our current faculty, plus those of two newly hired faculty members within the division of Environmental and Community Health.

Renee Anthony, PhD, CIH joined the Environmental and Occupational Health concentration as a new assistant professor faculty member on July 1, 2005, for the 2005-2006 academic year. Dr. Anthony will be using laboratory space for teaching industrial hygiene classes including instrumentation and ventilation. In addition, she will require space for her research projects. Given her PhD dissertation involving particulate exposure and modeling, we anticipate her conversion of the former garage behind the HRP building at 1435 N. Fremont into a 5 x 5 x 8 foot wind tunnel. She also will be involved in a number of exposure assessment research projects that will require bench space for setting up exposure chambers and equipment as well as space to analyze samples, including humidity controlled areas for sample analysis, which will require a dedicated research laboratory.

Biological Research Laboratories (BRL) located west of the Arizona Health Science Center complex (Building 209):

Two laboratories are located in the Biological Research Laboratory complex (BRL). The laboratories include two small offices adjacent to the wet-laboratory/research area. The research laboratories are about 1,369 net square feet total.

Equipment in the BRL Laboratory includes: chemical and biological hoods allowing studies of pathogens; ultra low temperature freezers; centrifuges, microscopes, incubators etc.

Arizona Cancer Center (AzCC):

MEZCOPH also has access to approximately 15,187 square feet in laboratory and research office space at the Arizona Cancer Center building located at the University of Arizona. Fifteen of our faculty collaborate with the AzCC on either a full or part-time basis and have been given space to support their on-going research programs. A majority of these individuals will release their current office space to the AzCC and join the MEZCOPH at the new Drachman Hall location.

Several large laboratories in the AzCC will be retained after the completion of the new building. The Office of Biometry will remain on site in close proximity to the research activities and to the Cancer Center Director. This office includes space for a Director, 4 PhD-level biostatisticians, 3 masters-level statisticians, a MS-level data specialist, a BS-level data manager and a program coordinator. One example of a large AzCC research project (housed at an off-site location) is the Tea Study. The project includes space for 11 offices, 4 patient exam rooms, a large laboratory, a freezer room, a pharmacy, a tea storage room, a subject/participant education room, a large conference room, staff lounge and reception area (totaling 6,000 square feet).

Floor plans of wet-lab space will be made available for site visitors or upon request.

IV.6. A concise statement concerning the amount, location, and types of computer facilities and resources for students, faculty, administration and staff.

The Mel and Enid Zuckerman College of Public Health's computing facilities, currently distributed across fourteen (14) locations in and around the University of Arizona campus, and two other offices within the Phoenix, Arizona area, represent a truly distributed networked environment. The formation of the college brought with it a variety of networking and computing support solutions, which served the programs and projects that initially constituted MEZCOPH. Over time, this has changed to a more centrally supported model, as the MEZCOPH's Information Technology office has been able to provide continuity and consistency in services.

The computing infrastructure for the College consists of 18 servers predominately running Windows NT, Windows 2000 or Windows 2003. These servers are used for a variety of purposes including email, web hosting, file sharing, authentication, virtual private networking (VPN), network printing, and other special project specific applications.

The College's faculty and staff use approximately 300 personal computers provided from either division, college or research-funded resources. These are all Windows based systems connected to the network in a variety of ways depending on location. On-campus locations benefit from the network speed of the campus backbone (10 or 100 Mb/sec), while two sites use wireless (point to point) connections to establish connectivity, and the remainder use DSL or T1 connections.

Student access to computing technology is facilitated through the Arizona Health Sciences Center's library and its Learning Resource Center. These facilities provide students with access to special technologies, and local and Internet resources. Additionally, the Center for Computing and Information Technology and the Integrated Learning Center, on the main campus, provide similar access to computing labs and resources. A help desk is available at each of these facilities.

With the construction of Drachman Hall, the new home of MEZCOPH, the number of sites requiring IT support will be reduced to nine (9). The new building will be networked using voice over IP (VoIP) technology, which allows for both telephone and data service over the same set of cables. Wireless data networking will also be utilized in and around the building, complementing the wired data connection points within the building. There will be a "Distance

Learning Classroom” in the building, which will allow for teaching to and interacting with students in remote locations. A room for training and general instructional needs equipped with 21 computer stations will also be available solely for use by MEZCOPH. Currently, funding to equip this room is still being sought. The consolidation of the number of sites will improve the provision of technical support while providing increased opportunities for faculty development in the area of information technology.

IV.7. A concise statement of library/information resources available for school use.

Students at the Mel and Enid Zuckerman College of Public Health have access to any of the libraries on the University of Arizona campus. The University offers 5 libraries (Main Library, Science-Engineering Library, Fine Arts Library, Law Library, and Arizona Health Sciences Library). The Main Library system (which includes the Science-Engineering Library) contains almost 7,000,000 items, displaying 4,000 plus periodicals, books, microforms, maps, government publications, manuscripts and non-book media. In addition, the Arizona Health Sciences Library is a specialized library that meets the needs of the colleges of Medicine, Nursing, Pharmacy, and Public Health, and the health-related graduate programs as well as The University Medical Center. This health library contains over 212,000 volumes and receives approximately 2,100 periodical and serial publications. The collection includes books, journals, audiovisuals, electronic resources, and other materials in the health sciences. All students are required to obtain the University of Arizona's CatCard thereby allowing them access to the University of Arizona's library and computing facilities on-site and via the internet.

IV.8. A concise statement identifying field experience sites used during the last three years.

The Mel and Enid Zuckerman College of Public Health and its students utilize a multitude of field and work sites throughout Arizona, the Southwest and abroad. Due to our locale in the Southwest, border communities in both the United States and Mexico have always been given special attention. MEZCOPH has in the past, and will continue in the future, to bring the MEZCOPH's research and service mission to the under-served communities inhabiting those areas. Affiliations with community partners have and will continue to further stabilize the commitment to public health with MEZCOPH and communities involved.

Students in the Masters in Public Health program may select a variety of sites to complete their student internships (Criterion V.B.3). Federal, state, local, county, and tribal agencies, in addition to university and private sector settings are all included to provide an opportunity within the diverse program. The majority of MPH internships are performed in community programs, which

university faculty support as well.

IV.9. A concise statement describing other community resources available for instruction, research and service, indicating those where formal agreements exist.

The Mel and Enid Zuckerman College of Public Health continues to seek out and obtain resources for instruction, research and service from community-based partners. Often community-based projects include a match in funding and effort from the groups being served. Formal agreements are in place for fieldwork being done at the research and service level. In addition, faculty may collaborate independently of their research with community-based groups and agencies. Community-based research projects are described in further detail under Criterion VI.2 and Criterion VII.2.

IV.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.

We evaluate our resources and performance by three main outcome variables; student-to-faculty ratio by program, institutional expenditures per FTE student, and research dollars per FTE faculty. Student-to-faculty ratio by program is shown in the Resources Section, Criterion IV.2 in TABLE IV.2-5. Institutional expenditures per FTE student and research dollars per FTE faculty are reflected in the following table:

TABLE IV.10-1 MEZCOPH Outcome Measures

Mel and Enid Zuckerman College of Public Health - Outcome Measures			
Institutional Expenditures per FTE Student			
	2002-2003	2003-2004 (b)	2004-2005
Expenditures	\$ 2,969,000	\$ 5,745,559	\$ 4,395,559
FTE Students	318.08	366.81	343.14
Expenditures/FTE Students	\$ 9,334	\$ 15,664	\$ 12,810
Research Expenditures per FTE Faculty			
	2002-2003	2003-2004	2004-2005
Expenditures	\$ 12,961,779	\$ 13,926,759	\$ 13,893,836
FTE Faculty and Other Principal Investigators (a)	39.23	43.50	39.21
Expenditures/FTE Faculty	\$ 330,405	\$ 320,155	\$ 354,344

- a. *FTE Faculty includes all tenure, tenure eligible, non-tenure track and other professional faculty who are principal investigators.*
- b. *Institutional expenditures for FY2003/2004 include funds allocated to Drachman Hall building fund.*

IV.11. Assessment of the extent to which this criterion is met.

This criterion is met.

Strengths

State Appropriated Funds: State support has shown an increase of 98% over the past 5-year period from \$1,854,792 (FY00/01) to \$3,666,877 (FY04-05). The permanent budget was increased by the \$500,000 as of July 1, 2005. A second allocation of temporary funding (\$1,500,000) was deposited in mid-July 2005. The final allocation of \$1,500,000 in permanent state dollars will be received by July 1, 2006. This allotment increases the total state funding to over \$5 million dollars, allowing for a much more stable funding base to meet the instruction, service and research mission of MEZCOPH.

Faculty Research Resources: Pre-accreditation status has offered new opportunities for the College to obtain funding from a variety of sources that are open only to accredited schools and colleges. MEZCOPH faculty have successfully competed for several of these grants. In addition to the direct costs dollars providing benefit to programs, a portion of the indirect costs earned from these new funding sources will be returned to the College to supplement program needs. Additional information is provided in Criteria V, VI, and VII.

Student Financial Aid, Fellowships, Scholarships, and Travel Funding: The College does not collect detailed information about all sources of financial aid awarded to its students, but it is estimated that in excess of fifty percent of our graduate students apply for and receive financial aid through the University of Arizona Office of Student Financial Aid. An additional 20-25 percent receive student scholarships and assistantships awarded through MEZCOPH. New opportunities for financial support of internships and fellowships continue to present themselves with funding obtained through grants and contracts, such as the College's Center for Health Equality (EXPORT Fellowships) and ASPH funded "Partnership in Public Health – Arizona Academic Health Department" (paid health department internships), and through named gifts, such as the Nichols Scholars Fund, promoting internships in border and rural areas. The initiation of a program fee for MPH students in Fall 2005 will result in additional scholarship funding as well. The College provides travel scholarships to approximately 10% of all students through a variety of funding sources, allowing them to attend regional and national meetings and conferences. Preference is given to students who will present their academic work. The College's traditional

scholarship base continues to grow as the reputation of the College and its students becomes more widely known.

Weaknesses

Space: Construction of the new home for the Zuckerman College of Public Health will soon bring a majority of the College's employees to an on-campus location. Unfortunately, the new space is insufficient to accommodate all employees. Therefore, it will be necessary to retain several additional off-site (but on-campus) buildings to accommodate a variety of programs such as laboratories for the Environmental and Community Health group.

Laboratories: Laboratory space that is assigned to MEZCOPH is currently at capacity.

Recommendations

In the past few years, the College has made vast strides in obtaining funds for student financial aid. In order to maintain supply and demand, it will be necessary to continually develop fundraising activities to provide resources for student grants and scholarships.

Additional and upgraded laboratory space will continue to be sought out on campus to accommodate current and incoming faculty. New laboratory research buildings are on the University's long-range master plan for construction. Requests for additional state funding will be submitted to the Arizona Board of Regents and the Arizona Legislature via the Provost's and President's Offices in the form of Decision Packages as opportunities become available.

MEZCOPH plans to continue building the faculty base by utilizing the recently allocated permanent state funds (from the Provost). Faculty positions will be filled to accommodate needs in research, service and instructional areas. In addition, the College will continue to seek out funding for faculty endowments through private donors. Endowed chairs and programs allow the MEZCOPH to attract and retain faculty who have earned national distinction in public health.