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**UNIVERSITY OF MINNESOTA HEALTH SCIENCES
COST CONSTRUCTION STUDY
MEDICAL SCHOOL**

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EXECUTIVE SUMMARY

SCOPE

This report is a result of a Cost Construction study of Undergraduate Medical Education, patterned after similar studies in Nursing and Pharmacy.

One purpose of these studies is to upgrade methodology while another purpose is to make the studies available to the other Health Science units for possible additional studies hopefully useful for making decisions.

UNDERGRADUATE MEDICAL EDUCATION

Page 9 of the report suggests that \$566,378 or 12.3 base salary positions is the appropriate education base reduction as a consequence of decreasing the class size by 39 entering places.

No significant savings in costs will result until 1986-87 at which time 2.22 teaching positions will be saved.

Figure 2 of the report also indicates that the savings in the magnitudes indicated above need not be borne totally by the Medical School itself but by the set of resources (HCMC, SPR, VA, and OTHER) represented in the University ledger. Of this set of University resources, the Medical School's share is 64%.

Thus, the "bottom" line to this report indicates that the Medical School savings of education base over the period until 1991-92 is 7.9 positions or \$362,482. The recommendation here is that the cost factor information required in the 1983 Laws be furnished as requested, particularly the facts related to the Basic Sciences.

INTRODUCTION

This is a report to communicate further details of the Health Sciences Cost Construction studies. The undergraduate medical education program in the Medical School is the focus here. Previous reports have covered the School of Nursing and the College of Pharmacy.

The objective of the Health Science Cost Allocation Study is to identify program costs of education, research, and service within the Health Sciences units for administrative and management purposes.

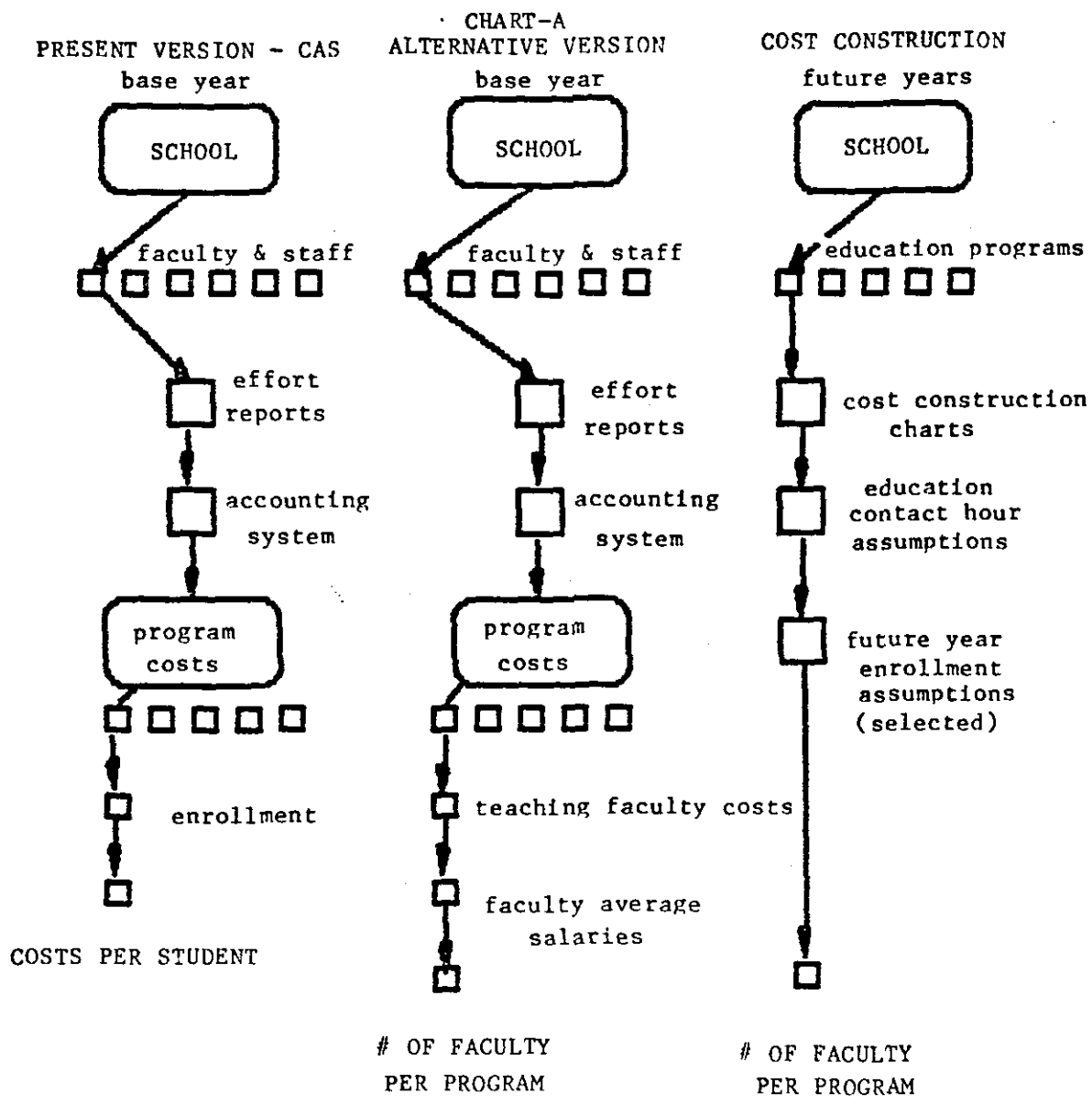
The objective of Cost Construction is to examine in great detail the education programs in the Health Sciences with the specific objective of estimating "faculty staffing requirements" at alternative levels of enrollments, with an eye towards the mid-1990s by which time, according to much current thinking, there will be decreases in higher education enrollments in the United States of around 25%. Faculty teaching costs of operation need to be understood much more thoroughly as they relate not in some overall global (formula) way in higher education but in a context of particular logistics that are to be found in particular programs of education within particular schools and colleges.

Chart-A on the following page shows a diagram of the present Health Sciences Cost Allocation study together with an alternative form that demonstrates "faculty staffing requirements" per program. A diagram of Cost Construction is then presented, showing data elements of curriculum charting, contact hour data, and enrollment levels (which can be set hypothetically) which process out to "faculty staffing requirements."

Baseline information from the Cost Allocation Study is thus used as input to the Cost Construction model. The overall objective is to be able to, on an interactive basis, "select" future estimated enrollment levels and estimate, for management and planning purposes, resource implications represented by the major cost factor, namely the cost of faculty that run the programs.

The major finding reinforced as a consequence of following through on Cost Construction into the Medical School is that "fixed" and "variable" costs need to become a part of the understanding of everyone concerned with describing and funding higher education. At present these concepts are not generally part of the discussion process nor of the descriptions of higher education funding. The output charts produced thus far are potentially useful. For example, a requirement exists for an undergraduate medical education class size and related cost factor report regarding the Medical School.

This report should be interpreted as a supplement to the December, 1982 University of Minnesota Health Sciences Cost Allocation Study. See that report for further information if desired.



Notes.

The above diagram shows the (a) present ongoing format of the Health Sciences Cost Allocation Study, (b) an alternative presentation highlighting faculty costs and numbers of positions and (c) the interface with Cost Construction which begins the analysis not with effort reporting but with required curriculum on a program basis.

TWIN CITIES CAMPUS MEDICAL SCHOOL: A STUDY OF SCALE, PROPORTION, AND BALANCE

The 1983 Minnesota State Legislature, in its appropriations measure for the University of Minnesota, stipulated that a study of medical school class size be undertaken, along with an analysis of the related cost factors. The specific language is found in Minnesota Laws 1983, Chapter 258, Section 6, Subdivision 2:

". . . It is the intent of the legislature that steps be taken to reduce the projected oversupply of physicians in Minnesota. The university's study on medical school enrollment, including recommendations for reductions in entering class size for the 1984-85 academic year and subsequent implications for funding, shall be presented to the chairmen of the senate finance committee and the house appropriations committee by October 1, 1983. The medical education contingent fund is available upon submission of required documentation that the university is moving to address the physician oversupply problem. The request for release of this money shall be reviewed by the education division of the house appropriation committee and the education subcommittee of the senate finance committee. A recommendation on the release of the money shall be made by the chairmen of the house appropriations and senate finance committees, whose recommendations are advisory only."

To focus appropriately on issues of class size and cost factors, it is helpful to set forth some historical insights regarding the Twin Cities Campus Medical School in a perspective of early beginnings of the University that parallel in many ways the founding of the School.

In 1869, just three years after the end of the Civil War, the Minnesota Legislature enacted provisions establishing the University. Authorization was included for a "college or department of medicine." It is clear from early records that the initial function was that of examining candidates for degrees and licenses. The sole aim was to maintain a standard of qualifications fully equal to the highest and fully in accord with the needs and demands of the people and the time. From 1884 to 1887 nine medical degrees were awarded in Minnesota.

William Watts Folwell had taken office as President of the University in 1869, some 19 years before the formal opening of the Medical School in 1888. Folwell set forth the following in his 1869 address upon taking office as the first University President:

"Today we celebrate the foundation of the University, its inauguration, long ago an assured fact with those whose labors, sacrifices, and foresight have made it sure. It is hope, not memory, which inspires our hearts and dictates our utterances."

At a subsequent time from Folwell:

"The University, then, is not merely from the people but for the people. True, it will put bread in no man's mouth directly, nor money in his palm. Neither the rain nor the sunshine will do that, but they warm and nourish the spring grass and ripen the harvest. So higher education, generous culture, scholarship, and literature inform, inspire, and elevate communities."

The Medical School began what can easily be termed one hundred years of progress. Much of this can be rediscovered easily in a 921-page chronology entitled Masters Of Medicine, An Historical Sketch Of The College Of Medical Sciences, University Of Minnesota, 1888-1966. This was compiled by Dr. J. Arthur Myers who served the University for 54 years in the Department of Anatomy, subsequently in Medicine, and in Public Health.

One can keep abreast of modern day achievements of the Twin Cities Campus Medical School in several ways. The Minneapolis Star & Tribune reports on developments as well as bringing to the public's attention reports and findings from publications such as the New England Journal Of Medicine. This past year much public attention, locally and nationally, was focused upon the marked health improvement of an 11-month-old girl suffering from biliary atresia, again demonstrating the proportions of achievement relating to one hundred years of progress.

An additional method of keeping up on the significance of the Twin Cities Campus Medical School is to receive regularly such publications as TIME and NEWSWEEK. This latter publication in its August 29, 1983 cover story on Cyclosporine which is of vast significance in immunology, includes quoted information from Dr. Richard Simmons, some text relating to the work of Dr. Richard C. Lillehei and Dr. David Sutherland, and a picture captioned: "Success story: Najarian with recipients".

SCALE

Information for this section is drawn largely from University of Minnesota Health Sciences Cost Allocation Study--July 1, 1981 to June 30, 1982, a program oriented costing mechanism first completed in the Minnesota Health Sciences in 1971-72 and now updated every two years. (The 1981-82 study is thus the most recently completed update and therefore serves as the baseline of data used for the ensuing analysis in this report.)

From the above study for 1981-82 the various Medical School programs and students can be identified. The undergraduate medical student enrollment was 1060 composed of 239 entering students with an additional 48 third-year transfer students from UMD-School of Medicine. There were 1106 students in graduate medical education consisting of advanced preparation in clinical specialties. This extended program is necessary because physicians and students in graduate medical education are required to have a relationship with a university so the Medical School must share responsibility at this final level of preparation. In the allied health fields of physical therapy, occupational therapy, medical technology, and nurse anesthesia, 248 students were enrolled. In programs of graduate education in the basic sciences, areas where biomedical education and research serve as the knowledge foundation for much of today's health care, 283 were enrolled. Total enrollment in the Medical School was 2697 with 491 additional full-year equivalent students (FYE) trained in Health Sciences units of Nursing, Pharmacy, and Dentistry and schools and colleges across the Twin Cities Campus. See Figure 1 in the Appendix. Approximately 1/3 of students taught by Medical School faculty are in undergraduate medical education.

Figure 2 shows 1981-82 HEALTH SCIENCES COST ALLOCATION STUDY DATA SUMMARY, developed from Medical School/University Hospital and affiliate teaching hospital schedules on pages 24, 26-29, 31, 33, and 35. The salary data used to estimate numbers of positions in the program categories has been taken from the University general ledger and from supporting data shown on the above-referenced cost study. Highlighted in Figure 2 is a subsection of the teaching faculty data relating to undergraduate medical education. It should be noted, for example, that for 1981-82 in a class size year of 239 (the class size in effect in 1983-84) and a total enrollment of 1060, there were an estimated 93.73 ranked faculty (Instructor and Above) teaching positions related to undergraduate medical education from funding sources coming through the University general ledger. This category includes ranked faculty teaching positions paid from State appropriations assigned to the Medical School including State funds assigned to the Medical School but in turn used for most of the undergraduate medical education occurring in the affiliate teaching hospitals. Figure 3 describes Medical School income by source.

Additional resources of teaching positions for undergraduate medical education relate to clinical volunteers and to those in geographic clinical practice who contribute teaching services to the students. On the basis of information summarized in Figure 2 and shown in greater detail on page 24 of the Cost Allocation Study, there were 118.73 equivalent teaching positions that came forward from these sources.

A last category of faculty resources amounting to 26.07 teaching positions for undergraduate medical education is that of affiliate teaching hospital staff reimbursed through their respective hospitals but not included in the first category of Medical School/ University Hospital and teaching hospital expenditures coming through the University general ledger. The Medical School, characterized by a well-founded reputation for excellence in many of its programs in teaching, research, and service, attracts highly trained and motivated physicians from the community seeking various gradations of clinical appointment reflecting either efforts towards programs paid for through outside resources or, in other instances, is unpaid time from physicians who come to appreciate the benefits of relating to a highly respected Medical School within the University setting.

PROPORTION

Proportion in the context of this report relates to a comparison of what exists now, i.e., the current 239 entering class size (1981-82) configuration from the Cost Allocation Study for undergraduate medical education and what would exist with the implementation of class size decreases.

Since 1971-72, education costs in the Health Sciences have been calculated on the average cost basis of existing or historical actual levels of enrollment. Those who have wanted education cost information have requested it on the basis of historical or average costs.

When information has been sought regarding costs related to future, possibly reduced class sizes, the typical first difficulty encountered is that there has existed no widely understood and accepted costing mechanism. The focal problem or issue in questions of future estimating of costs is that, by and large, all funding formulas, including a cost cell funding plan now in effect covering public higher education in Minnesota as a consequence of the 1983 Minnesota Legislature, makes the assumption, implicitly or explicitly, that education costs are uniformly variable in nature.

Just what does the "variable" assumption of education costs mean for the fiscal officers who are concerned with covering expenses? Variable cost formulas typically identify a "unit cost" which is effective for an historical (for example, last year's enrollment) time period or for the current set of students in a program. This program cost divided out by the student enrollment, either historical or current, is useful for a variety of administrative purposes.

However, average cost studies typically include, as a matter of routine, the notion that current "unit costs" can be treated mathematically in relationship with future class sizes and enrollments to produce future program costs. For example, a program having 1000 students with a \$5000 unit cost for a program cost of \$5,000,000 would, according to average cost (all variable cost) assumptions, cost proportionately less with possible (future) lower enrollments. An enrollment cutback to 900 or 10% in the example would result in a calculation of 900 enrollment times the \$5000 unit cost for an expected total program cost of \$4,500,000 on the basis of "proportionate cutback" arithmetic. Enrollment decreases of 25% or other amounts would similarly result in mathematically (proportionately) lower estimated program costs.

In early 1981 the Health Sciences Cost Allocation Study working group (individuals from the Advisory/Management listing in the 1981-82 Health Sciences Cost Allocation Study Report) became concerned that decreased future enrollments might produce distress when interrelated with the assumption that education costs are always "variable" in nature; i.e., a 10% enrollment cutback would always result in a 10% education costs cutback, a 15% enrollment cutback would always result in a 15% education costs cutback, and so on.

In March of 1981 the Cost Allocation Study working group became aware of a possible technique by which to construct education costs at selected (hypothetical) levels of enrollment. Two sources of reference noted were: Gonyea, M. A., Editor, Analyzing And Constructing Cost, (1978) New Directions For Institutional Research, #17, Spring, 1978: San Francisco, Jossey-Bass, Inc.; and a reprint further defining the Gonyea method entitled "Operation of Health Care in Education at the Regional Level: Problems, Responsibilities in Cost Allocation, National Seminar in The Netherlands, 5th, 6th, 7th, April 1978."

Dr. Meredith A. Gonyea was contacted on the basis of her documented allocation techniques related to (future) selected enrollment levels not dealt with adequately by "average cost" oriented cost allocation studies. The Gonyea studies are predicated on the idea that internal studies ought to focus upon professorial teaching positions (ranked faculty sequenced "Instructor and Above") because this is the area that also represents the predominant area of funding under control at the college level.

After some preliminary work involving overview studies, Dr. Gonyea supervised the preparation of Cost Construction reports covering the curriculum logistics to identify faculty staffing requirements for the School of Nursing and the College of Pharmacy. An awareness developed gradually in the Gonyea studies that small group instruction can be much easily financed using variable cost assumptions than extremely large group sizes of instruction which are fixed by mode. That is to say, relatively small instruction "group sizes" permit "step functions" where teaching staff can possibly be added or subtracted. Conversely, instruction to "group sizes" as large as to the whole class have very different and much more difficult implications, particularly since the "step functions" occur in such large blocks.

Much of the College of Pharmacy curriculum in the first two professional years--the beginning parts of both the baccalaureate and the Pharm.D. programs--is characterized by large group teaching that encompasses much of the curriculum. From the logistics viewpoint of required teaching resources, the first two professional years exists as a "chunk" having little possibility of being whittled back without losing content in the event of future class size cutbacks. Any whittling necessitated by the implementation of funding formulas containing variable cost assumptions would result in either (a) less "critical mass" curriculum for the students as a whole or (b) resources from other of the characteristic set of "end purpose programs" in Pharmacy would have to be taken from.

Findings in the College of Pharmacy showing the "fixed cost" resource nature of the first two professional years precipitated much concern for the large group instruction in the first two years of the undergraduate medical student curriculum. To the extent that the first two years in the Medical School were similarly patterned, there was significant concern from the standpoint of the Medical School having a larger financial implication because of the greater numbers of students enrolled in the School.

HOW TO READ AND USE COST CONSTRUCTION CHARTS

Figures 4 through 14 in the Appendix are a series of 11 Cost Construction charts showing faculty resource requirements for the Twin Cities Campus Medical School regarding a proposed schedule of undergraduate medical education class sizes. Beginning with the 1981-82 base year schedule corresponding to available Cost Allocation Study data, the schedule extends into 1991-92, the last year of the class size reduction plan under discussion at the time of this cost factor study.

Class sizes of 1981-82, 1982-83, and 1983-84 each have 239 as the first year amount with slight variations through the second, third, and fourth years based upon a variety of student circumstances. 1984-85, in the particular class size reductions shown in Cost Construction charts in the Appendix, has an entering class size of 232, with successive reductions of 8 per year until 1988-89, at which time is shown at 200. The 1988-89 entering class of 200 would be moving into the fourth year in 1991-92, at which time the illustrated cutback of 39 entering students will have completed the four years of the curriculum.

First and foremost, Cost Construction charts are designed for the purpose of setting forth the details of curriculum of an academic program for setting out the "mode" of individual courses (lecture, laboratory, or clinic/seminar) of which the curriculum is comprised for the object of (a) portraying "characteristic group sizes" with which the offerings are taught to (b) the students. Why is this important? It is because the direct contact direct teaching time varies considerably based upon mode of instruction.

For example, a student receiving, for example, 50 hours of instruction in the lecture mode (note Gross Anatomy in the chart, for example) would, in a group size of one (if the course were carried on at that enrollment level), require a "draw" of 50 hours of faculty direct contact time. A group size of two (again if the course were carried on) would utilize the same 50 hours and thus produce no additional "faculty resource requirements" (direct contact time of faculty). Lecture mode instruction carried on at reasonable "sizes at one time" and beyond would not typically cause additional "faculty resource requirements" for the particular course as an element in the curriculum.

Laboratory instruction, an important "mode" of instruction in the Health Sciences, is often carried out in conjunction with the same course topic; i.e., a course frequently has both lecture and laboratory components. In the Basic Sciences comprising much of the first two years of the undergraduate medical education, there are "group sizes" which range from 4 to 30. In a class size at present of 239 with a laboratory group size of 30 as in Gross Anatomy, there would be a requirement of 8 additional subgroups. However, in offering laboratory work to undergraduate medical students, 25% of the staffing in Gross Anatomy is carried out directly by faculty (Instructor and Above) with 75% the responsibility carried out by Basic Science graduate students typically in the third year of an M.S./Ph.D. program. These individuals serve as extensions of the teaching faculty, taking some responsibility for the on-site laboratory work while gaining experience under supervision that is part of their own development.

This combination of faculty and advanced Basic Science students, together with a structure of course coordinators to integrate content drawn from more than one discipline, serves to provide an effective and mutually reinforcing pattern of educating the students that additionally is cost-effective and similar to patterns existing in other publicly supported medical schools of effectiveness and reputation.

In the above Gross Anatomy example, the reader can note that the lecture components, 100% the responsibility of faculty, carry to the right on the chart in full measure of 50 hours; while the 25% responsibility for the direct laboratory instruction proportionately reduces the faculty resource requirements, 75% of which is carried out by the advanced Basic Sciences students.

In the fourth year where there is an entry of less than 100% in the "Faculty Effort %" column," the factor applies, in similar fashion, to a sharing of faculty time due to participation by "residents" more formally known as advanced students in Graduate Medical Education who, in similar form, supplement the efforts of faculty.

The third and fourth years of undergraduate medical education are characterized by much smaller group sizes under the Clinic/Seminar column. Where a group size is shown to be .5, this means that 2 faculty typically interact with the student. A "Faculty Effort %" of .07 refers to the fact that 2 hours of the 30 time hours are related to the specific direct instruction of the third or fourth year medical students while 28 of 30 hours generally relate to multiple programs in the School.

Figure 15 in the Appendix is a summary of the Cost Construction charts pertaining to undergraduate medical education with class sizes and enrollments based upon the proposed reduction plan for 1983-84 through 1991-92. For the class size reduction to 200 over the above period, a decrease of 31.31 teaching faculty positions is indicated over the period with 2.41 related to the Pre-Clinical phase and 28.90 to the Clinical phase consisting of the last two years.

STATE FINANCING FORMULA IMPLICATIONS

In the State appropriations process, enrollments on a headcount basis are converted into full-year-equivalents (FYE) which for the 1981-82 year of the Cost Allocation Study amounted to approximately 1577 for the 1060 headcount students. Because of the inordinately heavy student workloads of undergraduate medical students, each headcount enrollment student gets weighted at approximately 1.5 times the headcount measure.

Figure 16, the last chart in the Appendix, is a Basic Sciences chart of data that has been updated annually showing the education production in terms of FYE units within the Medical School. While FYEs have not been recorded historically in a Pre-Clinical subset within the Medical School, the Basic Sciences chart is shown as representing a reasonable approximation of education output shown as Pre-Clinical in the Cost Construction charts.

Conceptually it is useful to think of Basic Sciences teaching as forming a structure not unlike that of a telescope in which undergraduate medical education instruction would comprise the first, most readily apparent section. The 527.7 FYE units of undergraduate medical education could be thought of as a cylinder at first glance from which an additional portion "telescopes" outward as a secondary resource comprised of 491.9 FYE undergraduate service teaching units to the other Health Science units of Nursing, Pharmacy, and Dentistry and to other parts of the University. A third portion, again telescoping outward, consists of yet another component amounting to 153.8 FYE units of instruction at the advanced graduate student level. Basic Sciences teaching accumulates to 1173.4 FYE units. Recognition needs to be made of the fact that while the undergraduate medical education contributions are perhaps the most visible and well known, there are the two important additional components of undergraduate service teaching and advanced graduate student teaching that, taken together, exceed the contributions made to undergraduate medical education.

From this it should be noted with great significance that the Pre-Clinical (Basic Sciences) share of undergraduate medical education is 527.7 out of 1577 FYE amounts to about 1/3 of the M.D. curriculum.

On the basis of recommendations coming through the Minnesota Higher Education Coordinating Board and the Governor's Office, a cost cell funding plan was enacted by the 1983 Minnesota Legislature in which no distinction has been made between fixed and variable components in direct instruction of students.

It is the conclusion, documented in the Pharmaceutical Sciences and established once again here, that there are important "faculty resource requirements" implications of "fixed cost" curriculum where less enrollment does not produce the intended savings.

Specifically the concern is that the newly emerging cost cell funding plan, based as it is on unit costs without distinction as to "fixed" and "variable" components, has the potential of removing teaching resources in ways neither known nor intended by those formulating, recommending, and ultimately approving the cost cell funding plan.

The proposed Twin City Campus Medical School undergraduate medical education reduction plan shown for years 1983-84 through 1991-92 indicates an enrollment decrease of 145 by the time the reduced entering class of 200 gets to the last curriculum year. Translated into FYE units for funding reduction purposes, the 145 enrollment decrease converts into 218 FYE units.

We have seen that approximately 1/3 of the undergraduate medical curriculum is the responsibility of the Pre-Clinical phase which takes up much of the first two years of the undergraduate medical education curriculum.

The dollar consequences are projected to be as follows, assuming the implementation of cost cell funding as now interpreted. Over the enrollment reduction period, 1/3 of the costs "backed out" from the Medical School via cell funding would be from the Pre-Clinical phase.

Estimated base year 1983-84 direct cell funding "unit costs" pertaining to undergraduate medical education would be approximately \$6000. In 1983-84 "constant dollars," the loss of education base related to the total enrollment reduction plan would be \$1,308,000 (145 decrease in enrollment times 1.5 to get the FYE unit reduction times the \$6000 "FYE unit cost"). Of this undergraduate medical education \$1,308,000 cost cell funding loss, based upon current understandings from a Department of Finance release on the subject, the Pre-Clinical share would be \$436,000 at the same time Cost Construction analysis shows Pre-Clinical savings of only 2.41 Pre-Clinical teaching positions over the enrollment schedule.

The Basic Sciences extend from undergraduate medical education into the other Health Sciences units of Nursing, Pharmacy, and Dentistry and significantly to other parts of the University as well as to the training of advanced students at the graduate level in several fields. The reader ought to be aware that it is in educational institutions having nationally recognized programs of Basic Sciences advanced training and research where much of the knowledge structure supporting today's health care is nurtured and developed. Should the possibility, seen as unwise here, be adopted of taking away unwarranted numbers of teaching positions on the basis of cost cell funding without concern or regard for what is nearly a fixed-cost format of Pre-Clinical undergraduate medical education, then the concept of resources telescoping forward, based upon student needs and sharing of resources, might be described more appropriately as an intussusception, a condition in which one loop of bowel "telescopes" into the canal of another loop of bowel or, alternatively, as volvulus in which the bowel twists on itself as a rubber balloon is twisted to keep air in it.

BALANCE

Rather than setting forth one "cost factor" corresponding to a proposed undergraduate medical education enrollment schedule, a determination of the amount will be placed into a context for recommendation.

1. One could recall the ambitions of the founders of the early University and the Medical School in the days just after the Civil War and consider the progress of the ensuing hundred years, perhaps considering Folwell's intonation: "It is hope, not memory, which inspires our hearts and dictates our utterances." The author of the 921-page chronology, *Masters In Medicine*, J. Arthur Myers, M.D., had he not gone to his Maker after serving some 54 years in Anatomy, Medicine, and Public Health, would today look about and be well pleased with what he saw. In this spirit of optimism and looking forward, one might recall how the State dollars are in turn followed by several "outside attracted" dollars into a medical school having national and international significance. This might in turn suggest that currently appropriated State dollars are well invested and that the proposed cutback relating to the 39 entering places need not necessarily call for a retrenchment having the potential of limiting the Medical School in its programs of education, research, and service of benefit to nearly everyone at one time or another in Minnesota.

2. One could, on a lesser scale, consider the logistics of the studies shown herein and extract resources up to but not exceeding the levels that would be indicated on the basis of the detailed studies. This alternative would consider appropriately the factors of required curriculum including mode of offering, group size taught of the individual course offerings, and the faculty participation factor in those instances where "hands, eyes, and ears" in the form of advanced student teaching assistants, on board for primarily other purposes, make important contributions not only to the education of the medical students but to their own development in the way of responsibility of limited nature. Specifically, this form of recommendation would shield the Basic Sciences departments which approximate the teaching services in the Pre-Clinical phase of undergraduate medical education in a situation amply demonstrated wherein resources are not related by enrollment volume to the quantity of teaching faculty required. As to the Clinical Sciences participation in undergraduate medical education, the Cost Construction studies do show that proportionate staffing reductions could be managed from the viewpoint of the teaching group sizes, primarily because of the availability of "step functions" which would permit the "average cost" assumptions of the cost cell approach to be implemented without disrupting the affected departments into chaos.

This would be a plan of removing education base according to Figure 15 which indicates a reduction of 31.3 FTE undergraduate medical education teaching positions, showing allocations as applicable to the various current sources of the teaching positions.

It can be seen that 12.3 positions relate to sources coming from funding sources within the University general ledger. Account file ADP-W102 indicates a 1983-84 base salary teaching faculty expense of \$46,047 which totals to \$566,378 of cuts to education base over the period of enrollment decreases through 1991-92. By the time the 232 class size gets to the third year, 2.22 positions from University ledger sources will have been saved with a dollar amount of \$102,224. By 1988-89,

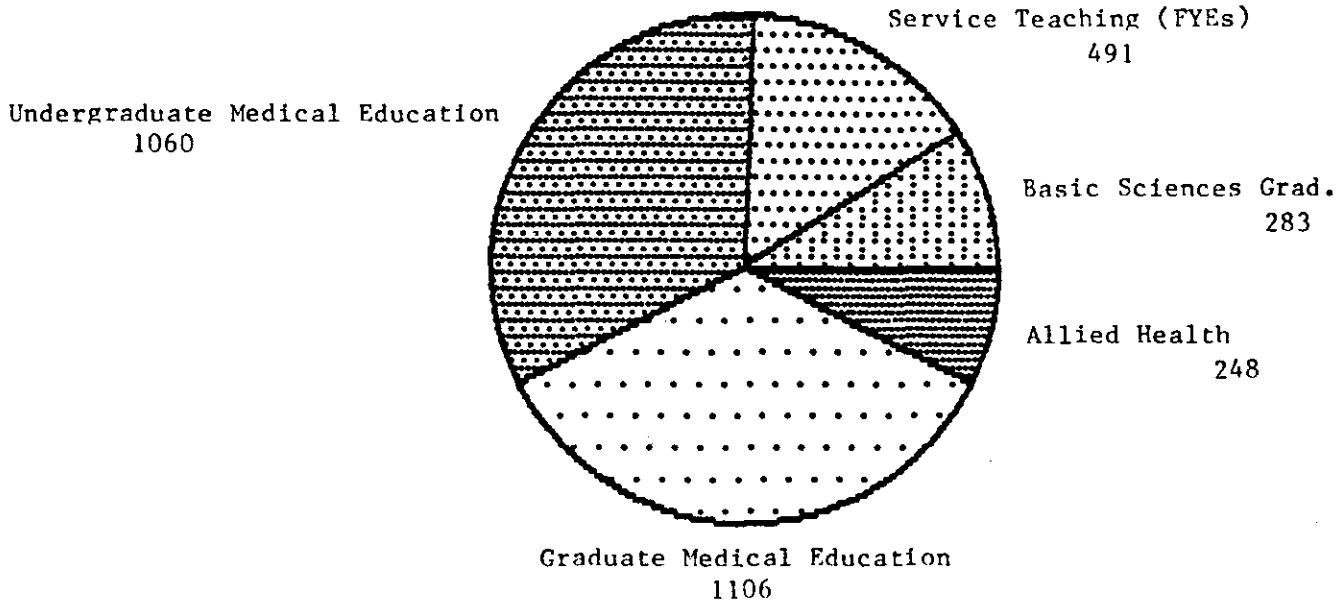
the year in which the entering class gets to the 200 level, the cumulative position savings will be 6.81 amounting to a dollar amount of \$313,580. By 1991-92, 12.3 positions will be recoverable from education base having a cumulative dollar amount of \$566,378.

3. One could simply point out that the 1983 Minnesota Legislature has set in motion a cost cell funding plan taking account of higher education in Minnesota and that circumstances such as those described and documented in this report are simply "discomfitures" to be managed without any special outside interest or attention.

MEDICAL SCHOOL ENROLLMENT BY STUDENT TYPE

FIGURE 1

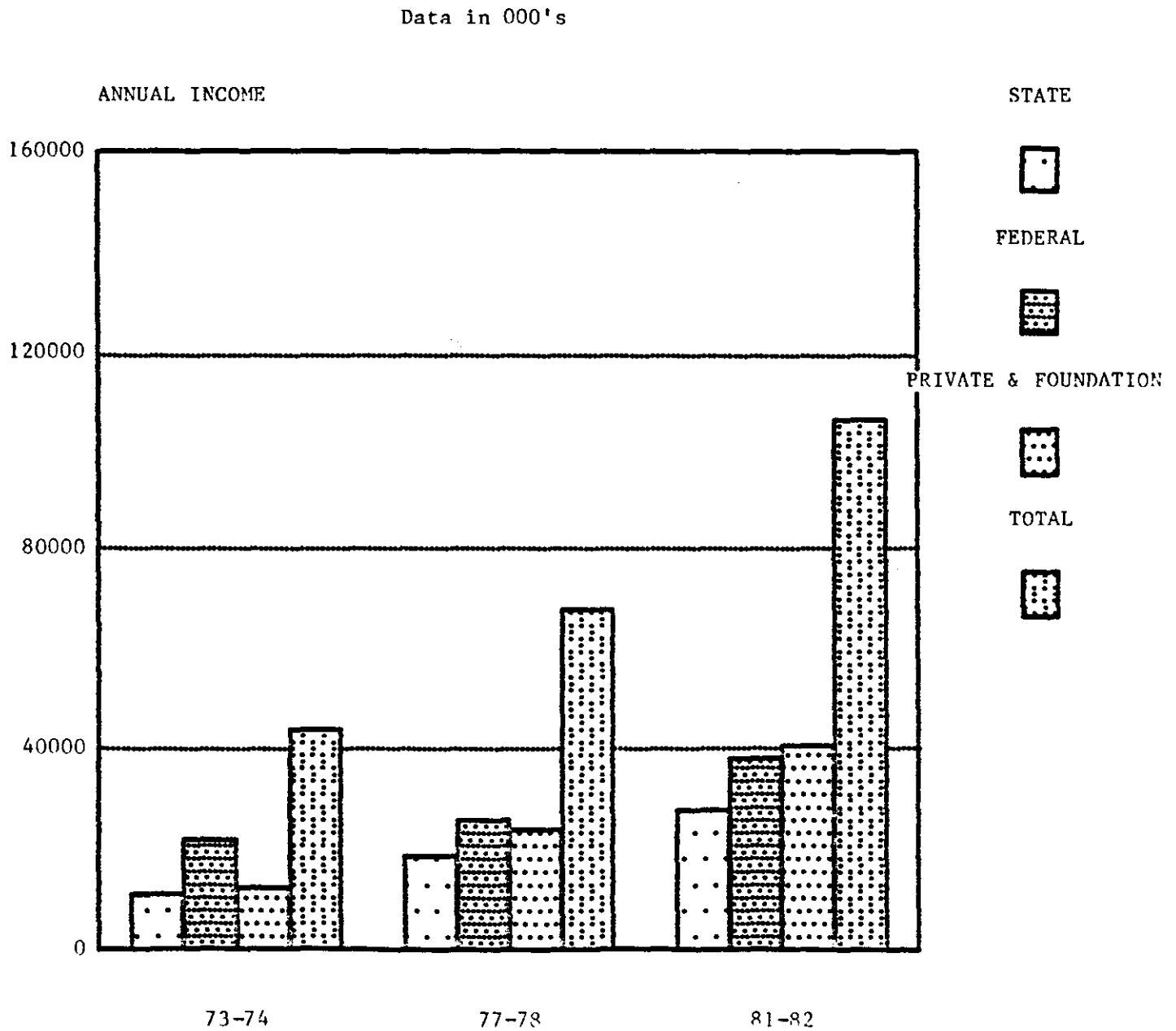
HEADCOUNT ENROLLMENT 1981-82



PERSONNEL CATEGORIES	Total Expense	Total Education	Undergrad M.D.	Allied Health	D.D.S.	Pharmacy	Nursing	Other	Medical Graduate Fellow Spec'list	Master Of Science/Ph.D.	Continu'g Educ. Research	External Patient Service	Profess' Service	
														PAID BY UNIVERSITY
ADMINISTRATIVE														
Med.Sch/ U Hosps	740768	504404	268414	72773	4640	4640	2307	4917	96740	24437	25536	140025	55400	4093
Positions	16.08	10.95	5.83	1.58	0.10	0.10	0.05	0.11	2.10	0.53	0.55	3.04	1.20	0.89
PROFESSORIAL														
Med.Sch/ U Hosps	24368593	12493832	2929729	849250	142291	29571	182238	244870	5693184	1484221	938478	7645173	3363795	86579
HCMC	3028306	3028306	746627	41789	3121	2590	26120	47424	1874695	102206	183734			
SPRMC	2453296	2453296	782603	69830	550	8079	35458	4840	1289992	52510	209434			
VA	19368	19368	3904	692	0	0	0	0	12986	0	1786			
OTHER	403140	403140	148501	4248	36	0	10565	0	191204	2247	46339			
Subtotal \$	30272703	18397942	4611364	965809	145998	40240	254381	297134	9062061	1641184	1379771	7645173	3363795	86579
Positions	615.35	373.97	93.73	19.63	2.97	0.82	5.17	6.04	184.20	33.36	28.05	155.40	68.38	17.60
PROFESSORIAL - CLINICAL VOLUNTEER FACULTY NOT PAID BY UNIVERSITY														
Med.Sch/ U Hosps	13000000	13000000	6700000	520000	0	0	60000	130000	5200000	0	390000			
Positions	189.29	189.29	97.56	7.57	0.0	0.0	0.87	1.89	75.72	0.0	5.68			
PROFESSORIAL - GEOGRAPHIC CLINICAL FACULTY NOT PAID BY UNIVERSITY														
Med.Sch/ U Hosps	8750000	4278750	1041250	218750	52500	8750	61250	96250	1951250	525000	323750	2878750	1268750	32375
Positions	177.86	86.97	21.17	4.45	1.07	0.18	1.25	1.96	39.66	10.67	6.58	58.52	25.79	6.58
PROFESSORIAL - AFFILIATE TEACHING HOSPITAL FACULTY NOT PAID BY UNIVERSITY														
HCMC	1084049	1084049	264927	19633	1151	0	0	0	694703	13748	89887			
SPRMC	1221188	1221188	380039	27819	536	3914	18456	3859	687389	18675	80501			
VA	2781315	2781315	637644	220290	20105	2720	37981	28754	1403156	167104	263561			
Subtotal \$	5086552	5086552	1282610	267742	21792	6634	56437	32613	2785248	199527	433949			
Positions	103.39	103.39	26.07	5.44	0.44	0.13	1.15	0.66	56.62	4.06	8.82			
RESEARCH														
Med.Sch/ U Hosps	825187	106726	69758	1019	0	0	3553	0	15532	3724	13140	663353	45758	935
SPRMC	2954	2954	0	0	0	0	739	0	0	739	1476			
OTHER	15337	15337	9574	0	0	0	135	0	4352	135	1141			
Subtotal \$	843478	125017	79332	1019	0	0	4427	0	19884	4598	15757	663353	45758	935
Positions	36.37	5.39	3.42	0.04	0.0	0.0	0.19	0.0	0.86	0.20	0.68	28.61	1.97	0.40
STUDENT SERVICE														
Med.Sch/ U Hosps	1529884	524209	112515	18127	63404	27520	12668	39390	57481	154865	38239	971343	32909	142
OTHER	1097	1097	14	0	0	0	0	2	845	0	236			
Subtotal \$	1530981	525306	112529	18127	63404	27520	12668	39392	58326	154865	38475	971343	32909	142
Positions	80.85	27.74	5.94	0.96	3.35	1.45	0.67	2.08	3.08	8.18	2.03	51.29	1.74	0.08
STUDENT FELLOW														
Med.Sch/ U Hosps	7584739	6425701	726183	15418	38760	38807	18715	10557	5176762	146598	293901	598103	552435	850
HCMC	2261380	2261380	294253	0	0	0	4293	0	1889150	17299	56385			
SPRMC	1556260	1556260	141644	553	0	1056	1335	0	1382661	0	29011			
OTHER	1003629	1003629	173861	161	0	528	4510	0	728377	963	95229			
Subtotal \$	12406008	11246970	1335941	16132	38760	40391	28853	10557	9136950	164860	474526	598103	552435	850
Positions	738.85	669.82	79.56	0.96	2.31	2.41	1.72	0.63	544.16	9.82	28.26	35.62	32.90	0.51
OTHER ACADEMIC														
Med.Sch/ U Hosps	704338	131552	50436	15583	0	0	3953	1622	39928	3441	16589	562062	9084	164
Positions	36.91	6.89	2.64	0.82	0.0	0.0	0.71	0.08	2.09	0.18	0.87	29.45	0.48	0.09
CIVIL SERVICE														
Med.Sch/ U Hosps	19513502	3257367	840559	217506	72591	19654	43771	89373	1293933	394770	285210	13739112	2389373	12765
HCMC	6501	6501	1560	0	0	0	0	0	3942	0	999			
SPRMC	3301	3301	441	0	0	0	0	0	1946	0	914			
OTHER	64986	64986	7288	25	0	0	2776	7594	37528	61	9714			
Subtotal \$	19588290	332155	849848	217531	72591	19654	46547	96967	1337349	394831	296837	13739112	2389373	12765
Positions	946.11	160.94	41.05	10.51	3.51	0.95	2.25	3.68	64.59	19.07	14.34	663.60	115.41	6.17
TOTAL SALARIES PAID BY UNIVERSITY														
Med.Sch/ U Hosps	55267011	23443791	4997594	1189676	321686	120192	267205	390729	12333560	2212056	1611093	24319171	6448754	105529
HCMC	5296187	5296187	1042440	41789	3121	2590	30413	47424	3767787	119505	241118			
SPRMC	4015811	4015811	924688	70383	550	9135	37532	4840	2674599	53249	260835			
VA	19368	19368	3904	692	0	0	0	0	12986	0	1786			
OTHER	1488189	1488189	339238	4434	36	528	17986	7596	962306	3406	152659			
Subtotal \$	66086566	34263346	7307864	1306974	325393	132445	353136	450589	19751238	2388216	2247491	24319171	6448754	105529
Positions	2470.52	1255.71	232.18	34.50	12.23	5.73	10.25	13.62	801.08	71.34	74.78	967.01	222.07	25.72

MEDICAL SCHOOL ANNUAL INCOME BY SOURCE

FIG. 3



DATA FROM 1981-82 UNIVERSITY GENERAL LEDGER

State, Federal, Private/Foundation, & Total Income

SESSION	PHASE	COURSE	TITLE	STUDENT CONTACT HRS		SCH	CLASS	GROUP SIZE			FACULTY		FACULTY CONTACT HRS		FCH		
				LECT	LAB			CL/SEM	TOT/HRS	LECT	LAB	CL/SEM	EFFORT %	LECT		LAB	CL/SEM
YEAR-1	PRE-CLIN.	GROSS ANATOMY		50	123	173	239	239	30		0.25	50	245	0	295		
YEAR-1	PRE-CLIN.	HISTOLOGY		38	57	95	239	239	17		0.71	38	569	0	607		
YEAR-1	PRE-CLIN.	EMBRYOLOGY		38		38	239	239			1.00	38	0	0	38		
YEAR-1	PRE-CLIN.	BIOCHEMISTRY		90	41	131	239	239	6		0.25	90	408	0	498		
YEAR-1	PRE-CLIN.	PHYSIOLOGY		81	56	137	239	239	14		0.57	81	545	0	626		
YEAR-1	PRE-CLIN.	PATHOLOGY		40	40	80	239	239	24		0.80	40	319	0	359		
YEAR-1	PRE-CLIN.	HUMAN BEHAVIOR		37		37	239	239			1.00	37	0	0	37		
YEAR-1	PRE-CLIN.	MICROBIOLOGY		80	50	130	239	239	24		0.40	80	199	0	279		
YEAR-1	PRE-CLIN.	NEUROANATOMY		21	18	39	239	239	20		0.50	21	108	0	129		
YEAR-1	PRE-CLIN.	HUMAN SEXUALITY		12	15	27	239	239	12		1.00	12	299	0	311		
YEAR-1	PRE-CLIN.	HUMAN GENETICS		17		17	239	239			1.00	17	0	0	17		
YEAR-1	PRE-CLIN.	CLINICAL MEDICINE I		12		48	239	239		4	1.00	12	0	2151	2163		
YEAR-1	PRE-CLIN.	CLINICAL CORRELATION		30		30	239	239			1.00	30	0	0	30		
SESSION TOTAL				546	400	36	982					546	2691	2151	5388		
YEAR-2	PRE-CLIN.	PATHOLOGY		58	50	108	234	234	24		0.80	58	390	0	448		
YEAR-2	PRE-CLIN.	PHARMACOLOGY		80	24	104	234	234	21		0.32	80	86	0	166		
YEAR-2	CLIN.	PATHOPHYSIOLOGY I		69		34	103	234	234		4	1.00	69	0	1989	2058	
YEAR-2	CLIN.	PATHOPHYSIOLOGY II		76		26	102	234	234		4	1.00	76	0	1521	1597	
YEAR-2	CLIN.	PATHOPHYSIOLOGY III		64	16	31	111	234	234	4	4	1.00	64	936	1814	2814	
YEAR-2	CLIN.	PATHOPHYSIOLOGY IV		59		59	234	234			1.00	59	0	0	59		
YEAR-2	CLIN.	TUTORIAL: CLIN. MED. II.			48	48	234		4		1.00	0	2808	0	2808		
YEAR-2	CLIN.	TUTORIAL: MEDICINE			48	48	234		4		0.75	0	2106	0	2106		
YEAR-2	CLIN.	TUTORIAL: PEDIATRICS			48	48	234		4		0.75	0	2106	0	2106		
YEAR-2	CLIN.	TUTORIAL: FAMILY PRACTICE			48	48	234		1		0.50	0	5616	0	5616		
YEAR-2	CLIN.	TUTORIAL: NEUROLOGY			48	48	234		4		0.75	0	2106	0	2106		
SESSION TOTAL				406	330	91	827					406	16154	5324	21883		
YEAR-3	CLIN.	CLERKSHIP MEDICINE		30	36	30	96	296	8	4	1	1.00	1110	2664	8880	12654	
YEAR-3	CLIN.	MEDICINE CLINIC				30	30	296			.5	0.07	0	0	1190	1190	
YEAR-3	CLIN.	CLERKSHIP SURGERY		30	36	30	96	296	8	4	1	1.00	1110	2664	8880	12654	
YEAR-3	CLIN.	SURGERY CLINIC				30	30	296			.5	0.07	0	0	1190	1190	
YEAR-3	CLIN.	CLERKSHIP PEDIATRICS		30	36	30	96	296	8	4	1	1.00	1110	2664	8880	12654	
YEAR-3	CLIN.	PEDIATRICS CLINIC				30	30	296			.5	0.07	0	0	1190	1190	
YEAR-3	CLIN.	CLERKSHIP PSYCHIATRY		30	36	30	96	296	8	4	1	1.00	1110	2664	8880	12654	
YEAR-3	CLIN.	PSYCHIATRY CLINIC				30	30	296			.5	0.07	0	0	1190	1190	
YEAR-3	CLIN.	CLERKSHIP NEUROLOGY		30	36	30	96	296	8	4	1	0.50	1110	2664	4440	8214	
YEAR-3	CLIN.	NEUROLOGY CLINIC				30	30	296			.5	0.07	0	0	1190	1190	
YEAR-3	CLIN.	CLERKSHIP OB/GYN		30	36	30	96	296	8	4	1	0.50	1110	2664	4440	8214	
YEAR-3	CLIN.	OB/GYN CLINIC				30	30	296			.5	0.07	0	0	1190	1190	
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	296	8	4	1	0.50	1110	2664	4440	8214	
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	296			.5	0.07	0	0	1190	1190	
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	296	8	4	1	0.50	1110	2664	4440	8214	
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	296			.5	0.07	0	0	1190	1190	
SESSION TOTAL				240	288	480	1008						8880	21312	62799	92991	
YEAR-4	CLIN.	CLERKSHIP ADVANCED MED.		30	36	30	96	272	8	4	1	0.50	1020	2448	4080	7548	
YEAR-4	CLIN.	ADVANCED MED. CLINIC				30	30	272			.5	0.07	0	0	1093	1093	
YEAR-4	CLIN.	CLERKSHIP DIDACTIC SEL.		90	72	24	186	272	136	4	8	1.00	180	4896	816	5892	
YEAR-4	CLIN.	CLERKSHIP ELECTIVE		60	72	60	192	272	8	4	1	0.50	2040	4896	8160	15096	
YEAR-4	CLIN.	ELECTIVE CLINIC				60	60	272			.5	0.07	0	0	2187	2187	
SESSION TOTAL				180	180	204	564						3240	12240	16336	31816	
CURRICULUM TOTAL				1372	1198	811	3381						13072	52397	86610	152079	
PRE-CLINICAL CONTACT HOURS				684	474	36	1194						684	3167	2151	6002	
PRE-CLINICAL CONTACT HOURS / 360 = REQUIRED FTE FOR M.D. PROGRAM													1.90	8.80	5.97	16.67	
CLINICAL CONTACT HOURS				688	724	775	2187						12388	49230	84459	146077	
CLINICAL CONTACT HOURS / 630 = REQUIRED FTE FOR M.D. PROGRAM													19.66	78.14	134.06	231.87	
PRE-CLINICAL & CLINICAL REQUIRED FTE FOR M.D. PROGRAM													21.56	86.94	140.04	248.54	
												COST CONSTRUCTION COMPARABLE PROPORTIONS					
PROFESSORIAL (RANKED FACULTY--INSTRUCTOR & ABOVE) FTE BY SOURCE*																	
												Costs Av Sal.		# FTE		# FTE	
PROFESSORIAL--PAID THROUGH UNIVERSITY GENERAL LEDGER												4611364 49196		93.73		97.66	
PROFESSORIAL--CLINICAL VOLUNTEERS NOT PAID BY UNIVERSITY												6700000 68675		97.56		101.65	
PROFESSORIAL--GEOGRAPHIC PRACTICE NOT PAID BY UNIVERSITY												1041250 49196		21.17		22.06	
PROFESSORIAL--AFFILIATE HOSPITAL NOT PAID BY UNIVERSITY												1282610 49196		26.07		27.16	
TOTAL FACULTY PARTICIPATING IN M.D. PROGRAM												13635224		238.53		248.54	

														1982-83		FIGURE 5	
SESSION	PHASE	COURSE	TITLE	STUDENT CONTACT HRS			SCH	CLASS	GROUP SIZE			FACULTY	FACULTY	CONTACT HRS			
				LECT	LAB	CL/SEM			TOT/HRS	SIZES	LECT			LAB	CL/SEM	EFFORT %	LECT
YEAR-1	PRE-CLIN.	GROSS ANATOMY		50	123		173	239	239	30		0.25	50	245	0	295	
YEAR-1	PRE-CLIN.	HISTOLOGY		38	57		95	239	239	17		0.71	38	569	0	607	
YEAR-1	PRE-CLIN.	EMBRYOLOGY		38			38	239	239			1.00	38	0	0	38	
YEAR-1	PRE-CLIN.	BIOCHEMISTRY		90	41		131	239	239	6		0.25	90	408	0	498	
YEAR-1	PRE-CLIN.	PHYSIOLOGY		81	56		137	239	239	14		0.57	81	545	0	626	
YEAR-1	PRE-CLIN.	PATHOLOGY		40	40		80	239	239	24		0.80	40	319	0	359	
YEAR-1	PRE-CLIN.	HUMAN BEHAVIOR		37			37	239	239			1.00	37	0	0	37	
YEAR-1	PRE-CLIN.	MICROBIOLOGY		80	50		130	239	239	24		0.40	80	199	0	279	
YEAR-1	PRE-CLIN.	NEUROANATOMY		21	18		39	239	239	20		0.50	21	108	0	129	
YEAR-1	PRE-CLIN.	HUMAN SEXUALITY		12	15		27	239	239	12		1.00	12	299	0	311	
YEAR-1	PRE-CLIN.	HUMAN GENETICS		17			17	239	239			1.00	17	0	0	17	
YEAR-1	PRE-CLIN.	CLINICAL MEDICINE I		12		36	48	239	239		4	1.00	12	0	2151	2163	
YEAR-1	PRE-CLIN.	CLINICAL CORRELATION		30			30	239	239			1.00	30	0	0	30	
SESSION TOTAL				546	400	36	982						546	2691	2151	5388	
YEAR-2	PRE-CLIN.	PATHOLOGY		58	50		108	242	242	24		0.80	58	403	0	461	
YEAR-2	PRE-CLIN.	PHARMACOLOGY		80	24		104	242	242	21		0.32	80	89	0	169	
YEAR-2	CLIN.	PATHOPHYSIOLOGY I		69		34	103	242	242		4	1.00	69	0	2057	2126	
YEAR-2	CLIN.	PATHOPHYSIOLOGY II		76		26	102	242	242		4	1.00	76	0	1573	1649	
YEAR-2	CLIN.	PATHOPHYSIOLOGY III		64	16	31	111	242	242	4		1.00	64	968	1876	2908	
YEAR-2	CLIN.	PATHOPHYSIOLOGY IV		59			59	242	242			1.00	59	0	0	59	
YEAR-2	CLIN.	TUTORIAL: CLIN. MED. II.		48			48	242		4		1.00	0	2904	0	2904	
YEAR-2	CLIN.	TUTORIAL: MEDICINE		48			48	242		4		0.75	0	2178	0	2178	
YEAR-2	CLIN.	TUTORIAL: PEDIATRICS		48			48	242		4		0.75	0	2178	0	2178	
YEAR-2	CLIN.	TUTORIAL: FAMILY PRACTICE		48			48	242		1		0.50	0	5808	0	5808	
YEAR-2	CLIN.	TUTORIAL: NEUROLOGY		48			48	242		4		0.75	0	2178	0	2178	
SESSION TOTAL				406	330	91	827						406	16706	5506	22617	
YEAR-3	CLIN.	CLERKSHIP MEDICINE		30	36	30	96	297	8	4	1	1.00	1114	2673	8910	12697	
YEAR-3	CLIN.	MEDICINE CLINIC				30	30	297			.5	0.07	0	0	1194	1194	
YEAR-3	CLIN.	CLERKSHIP SURGERY		30	36	30	96	297	8	4	1	1.00	1114	2673	8910	12697	
YEAR-3	CLIN.	SURGERY CLINIC				30	30	297			.5	0.07	0	0	1194	1194	
YEAR-3	CLIN.	CLERKSHIP PEDIATRICS		30	36	30	96	297	8	4	1	1.00	1114	2673	8910	12697	
YEAR-3	CLIN.	PEDIATRICS CLINIC				30	30	297			.5	0.07	0	0	1194	1194	
YEAR-3	CLIN.	CLERKSHIP PSYCHIATRY		30	36	30	96	297	8	4	1	1.00	1114	2673	8910	12697	
YEAR-3	CLIN.	PSYCHIATRY CLINIC				30	30	297			.5	0.07	0	0	1194	1194	
YEAR-3	CLIN.	CLERKSHIP NEUROLOGY		30	36	30	96	297	8	4	1	0.50	1114	2673	4455	8242	
YEAR-3	CLIN.	NEUROLOGY CLINIC				30	30	297			.5	0.07	0	0	1194	1194	
YEAR-3	CLIN.	CLERKSHIP OB/GYN		30	36	30	96	297	8	4	1	0.50	1114	2673	4455	8242	
YEAR-3	CLIN.	OB/GYN CLINIC				30	30	297			.5	0.07	0	0	1194	1194	
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	297	8	4	1	0.50	1114	2673	4455	8242	
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	297			.5	0.07	0	0	1194	1194	
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	297	8	4	1	0.50	1114	2673	4455	8242	
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	297			.5	0.07	0	0	1194	1194	
SESSION TOTAL				240	288	480	1008							8910	21384	63012	93306
YEAR-4	CLIN.	CLERKSHIP ADVANCED MED.		30	36	30	96	275	8	4	1	0.50	1031	2475	4125	7631	
YEAR-4	CLIN.	ADVANCED MED. CLINIC				30	30	275			.5	0.07	0	0	1106	1106	
YEAR-4	CLIN.	CLERKSHIP DIDACTIC SEL.		90	72	24	186	275	136	4	8	1.00	182	4950	825	5957	
YEAR-4	CLIN.	CLERKSHIP ELECTIVE		60	72	60	192	275	8	4	1	0.50	2062	4950	8250	15262	
YEAR-4	CLIN.	ELECTIVE CLINIC				60	60	275			.5	0.07	0	0	2211	2211	
SESSION TOTAL				180	180	204	564							3276	12375	16516	32167
CURRICULUM TOTAL				1372	1198	811	3381							13138	53156	87185	153478
PRE-CLINICAL CONTACT HOURS				684	474	36	1194							684	3183	2151	6018
PRE-CLINICAL CONTACT HOURS / 360 = REQUIRED FTE FOR M.D. PROGRAM														1.90	8.84	5.97	16.72
CLINICAL CONTACT HOURS				688	724	775	2187							12454	49973	85034	147460
CLINICAL CONTACT HOURS / 630 = REQUIRED FTE FOR M.D. PROGRAM														19.77	79.32	134.97	234.06
PRE-CLINICAL & CLINICAL REQUIRED FTE FOR M.D. PROGRAM														21.67	88.16	140.95	250.78
														COST CONSTRUCTION COMPARABLE PROPORTIONS			
PROFESSORIAL (RANKED FACULTY--INSTRUCTOR & ABOVE) FTE BY SOURCE*																	
PROFESSORIAL--PAID THROUGH UNIVERSITY GENERAL LEDGER								Costs	Av Sal.	# FTE	# FTE						
								4611364	49196	93.73	98.54						
PROFESSORIAL--CLINICAL VOLUNTEERS NOT PAID BY UNIVERSITY								6700000	68675	97.56	102.57						
PROFESSORIAL--GEOGRAPHIC PRACTICE NOT PAID BY UNIVERSITY								1041250	49196	21.17	22.26						
PROFESSORIAL--AFFILIATE HOSPITAL NOT PAID BY UNIVERSITY								1282610	49196	26.07	27.41						
TOTAL FACULTY PARTICIPATING IN M.D. PROGRAM								13635224		238.53	250.78						

SESSION	PHASE	COURSE	TITLE	STUDENT CONTACT HRS				SCH CLASS		GROUP SIZE		FACULTY		FACULTY CONTACT HRS		FCH	
				LECT	LAB	CL/SEM	TOT/HRS	TOT/HRS	SIZES	LECT	LAB	CL/SEM	EFFORT %	LECT	LAB	CL/SEM	TOT/HRS
YEAR-1	PRE-CLIN.	GROSS ANATOMY		50	123		173	239	239	30		0.25	50	245	0	295	
YEAR-1	PRE-CLIN.	HISTOLOGY		38	57		95	239	239	17		0.71	38	569	0	607	
YEAR-1	PRE-CLIN.	EMBRYOLOGY		38			38	239	239			1.00	38	0	0	38	
YEAR-1	PRE-CLIN.	BIOCHEMISTRY		90	41		131	239	239	6		0.25	90	408	0	498	
YEAR-1	PRE-CLIN.	PHYSIOLOGY		81	56		137	239	239	14		0.57	81	545	0	626	
YEAR-1	PRE-CLIN.	PATHOLOGY		40	40		80	239	239	24		0.80	40	319	0	359	
YEAR-1	PRE-CLIN.	HUMAN BEHAVIOR		37			37	239	239			1.00	37	0	0	37	
YEAR-1	PRE-CLIN.	MICROBIOLOGY		80	50		130	239	239	24		0.40	80	199	0	279	
YEAR-1	PRE-CLIN.	NEUROANATOMY		21	18		39	239	239	20		0.50	21	108	0	129	
YEAR-1	PRE-CLIN.	HUMAN SEXUALITY		12	15		27	239	239	12		1.00	12	299	0	311	
YEAR-1	PRE-CLIN.	HUMAN GENETICS		17			17	239	239			1.00	17	0	0	17	
YEAR-1	PRE-CLIN.	CLINICAL MEDICINE I		12		36	48	239	239		4	1.00	12	0	2151	2163	
YEAR-1	PRE-CLIN.	CLINICAL CORRELATION		30			30	239	239			1.00	30	0	0	30	
SESSION TOTAL				546	400	36	982						546	2691	2151	5388	
YEAR-2	PRE-CLIN.	PATHOLOGY		58	50		108	245	245	24		0.80	58	408	0	466	
YEAR-2	PRE-CLIN.	PHARMACOLOGY		80	24		104	245	245	21		0.32	80	90	0	170	
YEAR-2	CLIN.	PATHOPHYSIOLOGY I		69		34	103	245	245		4	1.00	69	0	2082	2152	
YEAR-2	CLIN.	PATHOPHYSIOLOGY II		76		26	102	245	245		4	1.00	76	0	1592	1668	
YEAR-2	CLIN.	PATHOPHYSIOLOGY III		64	16	31	111	245	245	4	4	1.00	64	980	1899	2943	
YEAR-2	CLIN.	PATHOPHYSIOLOGY IV		59			59	245	245			1.00	59	0	0	59	
YEAR-2	CLIN.	TUTORIAL: CLIN. MED. II.			48		48	245		4		1.00	0	2940	0	2940	
YEAR-2	CLIN.	TUTORIAL: MEDICINE			48		48	245		4		0.75	0	2205	0	2205	
YEAR-2	CLIN.	TUTORIAL: PEDIATRICS			48		48	245		4		0.75	0	2205	0	2205	
YEAR-2	CLIN.	TUTORIAL: FAMILY PRACTICE			48		48	245		1		0.50	0	5880	0	5880	
YEAR-2	CLIN.	TUTORIAL: NEUROLOGY			48		48	245		4		0.75	0	2205	0	2205	
SESSION TOTAL				406	330	91	827						406	16913	5574	22893	
YEAR-3	CLIN.	CLERKSHIP MEDICINE		30	36	30	96	290	8	4	1	1.00	1088	2610	8700	12398	
YEAR-3	CLIN.	MEDICINE CLINIC				30	30	290			.5	0.07	0	0	1166	1166	
YEAR-3	CLIN.	CLERKSHIP SURGERY		30	36	30	96	290	8	4	1	1.00	1088	2610	8700	12398	
YEAR-3	CLIN.	SURGERY CLINIC				30	30	290			.5	0.07	0	0	1166	1166	
YEAR-3	CLIN.	CLERKSHIP PEDIATRICS		30	36	30	96	290	8	4	1	1.00	1088	2610	8700	12398	
YEAR-3	CLIN.	PEDIATRICS CLINIC				30	30	290			.5	0.07	0	0	1166	1166	
YEAR-3	CLIN.	CLERKSHIP PSYCHIATRY		30	36	30	96	290	8	4	1	1.00	1088	2610	8700	12398	
YEAR-3	CLIN.	PSYCHIATRY CLINIC				30	30	290			.5	0.07	0	0	1166	1166	
YEAR-3	CLIN.	CLERKSHIP NEUROLOGY		30	36	30	96	290	8	4	1	0.50	1088	2610	4350	8048	
YEAR-3	CLIN.	NEUROLOGY CLINIC				30	30	290			.5	0.07	0	0	1166	1166	
YEAR-3	CLIN.	CLERKSHIP OB/GYN		30	36	30	96	290	8	4	1	0.50	1088	2610	4350	8048	
YEAR-3	CLIN.	OB/GYN CLINIC				30	30	290			.5	0.07	0	0	1166	1166	
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	290	8	4	1	0.50	1088	2610	4350	8048	
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	290			.5	0.07	0	0	1166	1166	
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	290	8	4	1	0.50	1088	2610	4350	8048	
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	290			.5	0.07	0	0	1166	1166	
SESSION TOTAL				240	288	480	1008						8700	20880	61526	91106	
YEAR-4	CLIN.	CLERKSHIP ADVANCED MED.		30	36	30	96	283	8	4	1	0.50	1061	2547	4245	7853	
YEAR-4	CLIN.	ADVANCED MED. CLINIC				30	30	283			.5	0.07	0	0	1138	1138	
YEAR-4	CLIN.	CLERKSHIP DIDACTIC SEL.		90	72	24	186	283	136	4	8	1.00	187	5094	849	6130	
YEAR-4	CLIN.	CLERKSHIP ELECTIVE		60	72	60	192	283	8	4	1	0.50	2122	5094	8490	15706	
YEAR-4	CLIN.	ELECTIVE CLINIC				60	60	283			.5	0.07	0	0	2275	2275	
SESSION TOTAL				180	180	204	564						3371	12735	16997	33103	
CURRICULUM TOTAL				1372	1198	811	3381						13023	53219	86248	152490	
PRE-CLINICAL CONTACT HOURS				684	474	36	1194						684	3189	2151	6024	
PRE-CLINICAL CONTACT HOURS / 360 = REQUIRED FTE FOR M.D. PROGRAM													1.90	8.86	5.97	16.73	
CLINICAL CONTACT HOURS				688	724	775	2187						12339	50030	84097	146466	
CLINICAL CONTACT HOURS / 630 = REQUIRED FTE FOR M.D. PROGRAM													19.59	79.41	133.49	232.49	
PRE-CLINICAL & CLINICAL REQUIRED FTE FOR M.D. PROGRAM													21.49	88.27	139.46	249.22	

COST CONSTRUCTION COMPARABLE PROPORTIONS

PROFESSORIAL (RANKED FACULTY--INSTRUCTOR & ABOVE) FTE BY SOURCE*

	Costs	Av Sal.	# FTE	# FTE
PROFESSORIAL--PAID THROUGH UNIVERSITY GENERAL LEDGER	4611364	49196	93.73	97.93
PROFESSORIAL--CLINICAL VOLUNTEERS NOT PAID BY UNIVERSITY	6700000	68675	97.56	101.93
PROFESSORIAL--GEOGRAPHIC PRACTICE NOT PAID BY UNIVERSITY	1041250	49196	21.17	22.12
PROFESSORIAL--AFFILIATE HOSPITAL NOT PAID BY UNIVERSITY	1282610	49196	26.07	27.24
TOTAL FACULTY PARTICIPATING IN M.D. PROGRAM	13635224		238.53	249.22

SESSION	PHASE	COURSE	TITLE	STUDENT CONTACT HRS			SCH TOT/HRS	CLASS SIZES	GROUP SIZE			FACULTY EFFORT %	FACULTY CONTACT HRS			FCH
				LECT	LAB	CL/SEM			LECT	LAB	CL/SEM		LECT	LAB	CL/SEM	
YEAR-1	PRE-CLIN.	GROSS ANATOMY		50	123		173	232	232	30	0.25	50	238	0	288	
YEAR-1	PRE-CLIN.	HISTOLOGY		38	57		95	232	232	17	0.71	38	552	0	590	
YEAR-1	PRE-CLIN.	EMBRYOLOGY		38			38	232	232		1.00	38	0	0	38	
YEAR-1	PRE-CLIN.	BIOCHEMISTRY		90	41		131	232	232	6	0.25	90	396	0	486	
YEAR-1	PRE-CLIN.	PHYSIOLOGY		81	56		137	232	232	14	0.57	81	529	0	610	
YEAR-1	PRE-CLIN.	PATHOLOGY		40	40		80	232	232	24	0.80	40	309	0	349	
YEAR-1	PRE-CLIN.	HUMAN BEHAVIOR		37			37	232	232		1.00	37	0	0	37	
YEAR-1	PRE-CLIN.	MICROBIOLOGY		80	50		130	232	232	24	0.40	80	193	0	273	
YEAR-1	PRE-CLIN.	NEUROANATOMY		21	18		39	232	232	20	0.50	21	104	0	125	
YEAR-1	PRE-CLIN.	HUMAN SEXUALITY		12	15		27	232	232	12	1.00	12	290	0	302	
YEAR-1	PRE-CLIN.	HUMAN GENETICS		17			17	232	232		1.00	17	0	0	17	
YEAR-1	PRE-CLIN.	CLINICAL MEDICINE I		12		36	48	232	232		4	1.00	12	0	2088	
YEAR-1	PRE-CLIN.	CLINICAL CORRELATION		30			30	232	232		1.00	30	0	0	30	
SESSION TOTAL				546	400	36	982					546	2612	2088	5246	

YEAR-2	PRE-CLIN.	PATHOLOGY		58	50		108	245	245	24	0.80	58	408	0	466
YEAR-2	PRE-CLIN.	PHARMACOLOGY		80	24		104	245	245	21	0.32	80	90	0	170
YEAR-2	CLIN.	PATHOPHYSIOLOGY I		69		34	103	245	245		4	1.00	69	0	2082
YEAR-2	CLIN.	PATHOPHYSIOLOGY II		76		26	102	245	245		4	1.00	76	0	1592
YEAR-2	CLIN.	PATHOPHYSIOLOGY III		64	16	31	111	245	245	4	1.00	64	980	1899	2943
YEAR-2	CLIN.	PATHOPHYSIOLOGY IV		59			59	245	245		1.00	59	0	0	59
YEAR-2	CLIN.	TUTORIAL: CLIN. MED. II.			48		48	245		4	1.00	0	2940	0	2940
YEAR-2	CLIN.	TUTORIAL: MEDICINE			48		48	245		4	0.75	0	2205	0	2205
YEAR-2	CLIN.	TUTORIAL: PEDIATRICS			48		48	245		4	0.75	0	2205	0	2205
YEAR-2	CLIN.	TUTORIAL: FAMILY PRACTICE			48		48	245		1	0.50	0	5880	0	5880
YEAR-2	CLIN.	TUTORIAL: NEUROLOGY			48		48	245		4	0.75	0	2205	0	2205
SESSION TOTAL				406	330	91	827					406	16913	5574	22893

YEAR-3	CLIN.	CLERKSHIP MEDICINE		30	36	30	96	290	8	4	1	1.00	1088	2610	8700	12398
YEAR-3	CLIN.	MEDICINE CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP SURGERY		30	36	30	96	290	8	4	1	1.00	1088	2610	8700	12398
YEAR-3	CLIN.	SURGERY CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP PEDIATRICS		30	36	30	96	290	8	4	1	1.00	1088	2610	8700	12398
YEAR-3	CLIN.	PEDIATRICS CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP PSYCHIATRY		30	36	30	96	290	8	4	1	1.00	1088	2610	8700	12398
YEAR-3	CLIN.	PSYCHIATRY CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP NEUROLOGY		30	36	30	96	290	8	4	1	0.50	1088	2610	4350	8048
YEAR-3	CLIN.	NEUROLOGY CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP OB/GYN		30	36	30	96	290	8	4	1	0.50	1088	2610	4350	8048
YEAR-3	CLIN.	OB/GYN CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	290	8	4	1	0.50	1088	2610	4350	8048
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	290	8	4	1	0.50	1088	2610	4350	8048
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	290			.5	0.07	0	0	1166	1166
SESSION TOTAL				240	288	480	1008						8700	20880	61526	91106

YEAR-4	CLIN.	CLERKSHIP ADVANCED MED.		30	36	30	96	285	8	4	1	0.50	1069	2565	4275	7909
YEAR-4	CLIN.	ADVANCED MED. CLINIC				30	30	285			.5	0.07	0	0	1146	1146
YEAR-4	CLIN.	CLERKSHIP DIDACTIC SEL.		90	72	24	186	285	136	4	8	1.00	189	5130	855	6174
YEAR-4	CLIN.	CLERKSHIP ELECTIVE		60	72	60	192	285	8	4	1	0.50	2138	5130	8550	15818
YEAR-4	CLIN.	ELECTIVE CLINIC				60	60	285			.5	0.07	0	0	2291	2291
SESSION TOTAL				180	180	204	564						3395	12825	17117	33337

CURRICULUM TOTAL				1372	1198	811	3381					13047	53230	86305	152582
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PRE-CLINICAL CONTACT HOURS				684	474	36	1194					684	3110	2088	5882
PRE-CLINICAL CONTACT HOURS / 360 = REQUIRED FTE FOR M.D. PROGRAM												1.90	8.64	5.80	16.34
CLINICAL CONTACT HOURS				688	724	775	2187					12363	50120	84217	146700
CLINICAL CONTACT HOURS / 630 = REQUIRED FTE FOR M.D. PROGRAM												19.62	79.56	133.68	232.86
PRE-CLINICAL & CLINICAL REQUIRED FTE FOR M.D. PROGRAM												21.52	88.20	139.48	249.20

COST CONSTRUCTION COMPARABLE PROPORTIONS

PROFESSORIAL (RANKED FACULTY--INSTRUCTOR & ABOVE) FTE BY SOURCE*	Costs	Av Sal.	# FTE	# FTE
PROFESSORIAL--PAID THROUGH UNIVERSITY GENERAL LEDGER	4611364	49196	93.73	97.92
PROFESSORIAL--CLINICAL VOLUNTEERS NOT PAID BY UNIVERSITY	6700000	68675	97.56	101.92
PROFESSORIAL--GEOGRAPHIC PRACTICE NOT PAID BY UNIVERSITY	1041250	49196	21.17	22.12
PROFESSORIAL--AFFILIATE HOSPITAL NOT PAID BY UNIVERSITY	1282610	49196	26.07	27.24
TOTAL FACULTY PARTICIPATING IN M.D. PROGRAM	13635224		238.53	249.20

SESSION	PHASE	COURSE	TITLE	STUDENT CONTACT HRS		SCH	CLASS	GROUP SIZE		FACULTY	FACULTY	CONTACT HRS		FCH		
				LECT	LAB			CL/SEM	TOT/HRS			LECT	LAB		CL/SEM	TOT/HRS
YEAR-1	PRE-CLIN.	GROSS ANATOMY		50	123		173	224	224	30	0.25	50	230	0	280	
YEAR-1	PRE-CLIN.	HISTOLOGY		38	57		95	224	224	17	0.71	38	533	0	571	
YEAR-1	PRE-CLIN.	EMBRYOLOGY		38			38	224	224		1.00	38	0	0	38	
YEAR-1	PRE-CLIN.	BIOCHEMISTRY		90	41		131	224	224	6	0.25	90	383	0	473	
YEAR-1	PRE-CLIN.	PHYSIOLOGY		81	56		137	224	224	14	0.57	81	511	0	592	
YEAR-1	PRE-CLIN.	PATHOLOGY		40	40		80	224	224	24	0.80	40	299	0	339	
YEAR-1	PRE-CLIN.	HUMAN BEHAVIOR		37			37	224	224		1.00	37	0	0	37	
YEAR-1	PRE-CLIN.	MICROBIOLOGY		80	50		130	224	224	24	0.40	80	187	0	267	
YEAR-1	PRE-CLIN.	NEUROANATOMY		21	18		39	224	224	20	0.50	21	101	0	122	
YEAR-1	PRE-CLIN.	HUMAN SEXUALITY		12	15		27	224	224	12	1.00	12	280	0	292	
YEAR-1	PRE-CLIN.	HUMAN GENETICS		17			17	224	224		1.00	17	0	0	17	
YEAR-1	PRE-CLIN.	CLINICAL MEDICINE I		12		36	48	224	224		4	1.00	12	0	2016	2028
YEAR-1	PRE-CLIN.	CLINICAL CORRELATION		30			30	224	224		1.00	30	0	0	0	30

SESSION TOTAL				546	400	36	982					546	2522	2016	5084
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YEAR-2	PRE-CLIN.	PATHOLOGY		58	50		108	238	238	24	0.80	58	397	0	455	
YEAR-2	PRE-CLIN.	PHARMACOLOGY		80	24		104	238	238	21	0.32	80	87	0	167	
YEAR-2	CLIN.	PATHOPHYSIOLOGY I		69		34	103	238	238		4	1.00	69	0	2023	2092
YEAR-2	CLIN.	PATHOPHYSIOLOGY II		76		26	102	238	238		4	1.00	76	0	1547	1623
YEAR-2	CLIN.	PATHOPHYSIOLOGY III		64	16	31	111	238	238	4	1.00	64	952	1844	2860	
YEAR-2	CLIN.	PATHOPHYSIOLOGY IV		59			59	238	238		1.00	59	0	0	59	
YEAR-2	CLIN.	TUTORIAL: CLIN. MED. II.			48		48	238		4	1.00	0	2856	0	2856	
YEAR-2	CLIN.	TUTORIAL: MEDICINE			48		48	238		4	0.75	0	2142	0	2142	
YEAR-2	CLIN.	TUTORIAL: PEDIATRICS			48		48	238		4	0.75	0	2142	0	2142	
YEAR-2	CLIN.	TUTORIAL: FAMILY PRACTICE			48		48	238		1	0.50	0	5712	0	5712	
YEAR-2	CLIN.	TUTORIAL: NEUROLOGY			48		48	238		4	0.75	0	2142	0	2142	

SESSION TOTAL				406	330	91	827					406	16430	5414	22250
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YEAR-3	CLIN.	CLERKSHIP MEDICINE		30	36	30	96	290	8	4	1	1.00	1088	2610	8700	12398
YEAR-3	CLIN.	MEDICINE CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP SURGERY		30	36	30	96	290	8	4	1	1.00	1088	2610	8700	12398
YEAR-3	CLIN.	SURGERY CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP PEDIATRICS		30	36	30	96	290	8	4	1	1.00	1088	2610	8700	12398
YEAR-3	CLIN.	PEDIATRICS CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP PSYCHIATRY		30	36	30	96	290	8	4	1	1.00	1088	2610	8700	12398
YEAR-3	CLIN.	PSYCHIATRY CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP NEUROLOGY		30	36	30	96	290	8	4	1	0.50	1088	2610	4350	8048
YEAR-3	CLIN.	NEUROLOGY CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP OB/GYN		30	36	30	96	290	8	4	1	0.50	1088	2610	4350	8048
YEAR-3	CLIN.	OB/GYN CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	290	8	4	1	0.50	1088	2610	4350	8048
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	290			.5	0.07	0	0	1166	1166
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	290	8	4	1	0.50	1088	2610	4350	8048
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	290			.5	0.07	0	0	1166	1166

SESSION TOTAL				240	288	480	1008					8700	20880	61526	91106
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YEAR-4	CLIN.	CLERKSHIP ADVANCED MED.		30	36	30	96	285	8	4	1	0.50	1069	2565	4275	7909
YEAR-4	CLIN.	ADVANCED MED. CLINIC				30	30	285			.5	0.07	0	0	1146	1146
YEAR-4	CLIN.	CLERKSHIP DIDACTIC SEL.		90	72	24	186	285	136	4	8	1.00	189	5130	855	6174
YEAR-4	CLIN.	CLERKSHIP ELECTIVE		60	72	60	192	285	8	4	1	0.50	2138	5130	8550	15818
YEAR-4	CLIN.	ELECTIVE CLINIC				60	60	285			.5	0.07	0	0	2291	2291

SESSION TOTAL				180	180	204	564					3395	12825	17117	33337
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CURRICULUM TOTAL				1372	1198	811	3381					13047	52657	86074	151778
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PPE-CLINICAL CONTACT HOURS				684	474	36	1194					684	3006	2016	5706
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PRE-CLINICAL CONTACT HOURS / 360 = REQUIRED FTE FOR M.D. PROGRAM												1.90	8.35	5.60	15.85
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CLINICAL CONTACT HOURS				688	724	775	2187					12363	49651	84058	146072
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CLINICAL CONTACT HOURS / 630 = REQUIRED FTE FOR M.D. PROGRAM												19.62	78.81	133.43	231.86
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PRE-CLINICAL & CLINICAL REQUIRED FTE FOR M.D. PROGRAM												21.52	87.16	139.03	247.71
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COST CONSTRUCTION COMPARABLE PROPORTIONS

PROFESSORIAL (RANKED FACULTY--INSTRUCTOR & ABOVE) FTE BY SOURCE*	Costs	Av Sal.	# FTE	# FTE
PROFESSORIAL--PAID THROUGH UNIVERSITY GENERAL LEDGER	4611364	49196	93.73	97.34
PROFESSORIAL--CLINICAL VOLUNTEERS NOT PAID BY UNIVERSITY	6700000	68675	97.56	101.31
PROFESSORIAL--GEOGRAPHIC PRACTICE NOT PAID BY UNIVERSITY	1041250	49196	21.17	21.98
PROFESSORIAL--AFFILIATE HOSPITAL NOT PAID BY UNIVERSITY	1282610	49196	26.07	27.07
TOTAL FACULTY PARTICIPATING IN M.D. PROGRAM	13635224		238.53	247.71

SESSION	PHASE	COURSE	TITLE	STUDENT CONTACT HRS			SCH CLASS	GROUP SIZE			FACULTY CONTACT HRS		FCH			
				LECT	LAB	CL/SEM		LECT	LAB	CL/SEM	EFFORT %	LECT		LAB	CL/SEM	TOT/HRS
YEAR-1	PRE-CLIN.	GROSS ANATOMY		50	123		173	216	216	30	0.25	50	221	0	271	
YEAR-1	PRE-CLIN.	HISTOLOGY		38	57		95	216	216	17	0.71	38	514	0	552	
YEAR-1	PRE-CLIN.	EMBRYOLOGY		38			38	216	216		1.00	38	0	0	38	
YEAR-1	PRE-CLIN.	BIOCHEMISTRY		90	41		131	216	216	6	0.25	90	369	0	459	
YEAR-1	PRE-CLIN.	PHYSIOLOGY		81	56		137	216	216	14	0.57	81	492	0	573	
YEAR-1	PRE-CLIN.	PATHOLOGY		40	40		80	216	216	24	0.80	40	288	0	328	
YEAR-1	PRE-CLIN.	HUMAN BEHAVIOR		37			37	216	216		1.00	37	0	0	37	
YEAR-1	PRE-CLIN.	MICROBIOLOGY		80	50		130	216	216	24	0.40	80	180	0	260	
YEAR-1	PRE-CLIN.	NEUROANATOMY		21	18		39	216	216	20	0.50	21	97	0	118	
YEAR-1	PRE-CLIN.	HUMAN SEXUALITY		12	15		27	216	216	12	1.00	12	270	0	282	
YEAR-1	PRE-CLIN.	HUMAN GENETICS		17			17	216	216		1.00	17	0	0	17	
YEAR-1	PRE-CLIN.	CLINICAL MEDICINE I		12		36	48	216	216		4	1.00	12	0	1944	1956
YEAR-1	PRE-CLIN.	CLINICAL CORRELATION		30			30	216	216			1.00	30	0	0	30

SESSION TOTAL 546 400 36 982 546 2432 1944 4922

YEAR-2	PRE-CLIN.	PATHOLOGY		58	50		108	230	230	24	0.80	58	383	0	441	
YEAR-2	PRE-CLIN.	PHARMACOLOGY		80	24		104	230	230	21	0.32	80	84	0	164	
YEAR-2	CLIN.	PATHOPHYSIOLOGY I		69		34	103	230	230		4	1.00	69	0	1955	2024
YEAR-2	CLIN.	PATHOPHYSIOLOGY II		76		26	102	230	230		4	1.00	76	0	1495	1571
YEAR-2	CLIN.	PATHOPHYSIOLOGY III		64	16	31	111	230	230	4	1.00	64	920	1782	2766	
YEAR-2	CLIN.	PATHOPHYSIOLOGY IV		59			59	230	230		1.00	59	0	0	59	
YEAR-2	CLIN.	TUTORIAL: CLIN. MED. II.			48		48	230		4	1.00	0	2760	0	2760	
YEAR-2	CLIN.	TUTORIAL: MEDICINE			48		48	230		4	0.75	0	2070	0	2070	
YEAR-2	CLIN.	TUTORIAL: PEDIATRICS			48		48	230		4	0.75	0	2070	0	2070	
YEAR-2	CLIN.	TUTORIAL: FAMILY PRACTICE			48		48	230		1	0.50	0	5520	0	5520	
YEAR-2	CLIN.	TUTORIAL: NEUROLOGY			48		48	230		4	0.75	0	2070	0	2070	

SESSION TOTAL 406 330 91 827 406 15877 5232 21516

YEAR-3	CLIN.	CLERKSHIP MEDICINE		30	36	30	96	285	8	4	1	1.00	1069	2565	8550	12184
YEAR-3	CLIN.	MEDICINE CLINIC				30	30	285			.5	0.07	0	0	1146	1146
YEAR-3	CLIN.	CLERKSHIP SURGERY		30	36	30	96	285	8	4	1	1.00	1069	2565	8550	12184
YEAR-3	CLIN.	SURGERY CLINIC				30	30	285			.5	0.07	0	0	1146	1146
YEAR-3	CLIN.	CLERKSHIP PEDIATRICS		30	36	30	96	285	8	4	1	1.00	1069	2565	8550	12184
YEAR-3	CLIN.	PEDIATRICS CLINIC				30	30	285			.5	0.07	0	0	1146	1146
YEAR-3	CLIN.	CLERKSHIP PSYCHIATRY		30	36	30	96	285	8	4	1	1.00	1069	2565	8550	12184
YEAR-3	CLIN.	PSYCHIATRY CLINIC				30	30	285			.5	0.07	0	0	1146	1146
YEAR-3	CLIN.	CLERKSHIP NEUROLOGY		30	36	30	96	285	8	4	1	0.50	1069	2565	4275	7909
YEAR-3	CLIN.	NEUROLOGY CLINIC				30	30	285			.5	0.07	0	0	1146	1146
YEAR-3	CLIN.	CLERKSHIP OB/GYN		30	36	30	96	285	8	4	1	0.50	1069	2565	4275	7909
YEAR-3	CLIN.	OB/GYN CLINIC				30	30	285			.5	0.07	0	0	1146	1146
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	285	8	4	1	0.50	1069	2565	4275	7909
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	285			.5	0.07	0	0	1146	1146
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	285	8	4	1	0.50	1069	2565	4275	7909
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	285			.5	0.07	0	0	1146	1146

SESSION TOTAL 240 288 480 1008 8550 20520 60466 89536

YEAR-4	CLIN.	CLERKSHIP ADVANCED MED.		30	36	30	96	285	8	4	1	0.50	1069	2565	4275	7909
YEAR-4	CLIN.	ADVANCED MED. CLINIC				30	30	285			.5	0.07	0	0	1146	1146
YEAR-4	CLIN.	CLERKSHIP DIDACTIC SEL.		90	72	24	186	285	136	4	8	1.00	189	5130	855	6174
YEAR-4	CLIN.	CLERKSHIP ELECTIVE		60	72	60	192	285	8	4	1	0.50	2138	5130	8550	15818
YEAR-4	CLIN.	ELECTIVE CLINIC				60	60	285			.5	0.07	0	0	2291	2291

SESSION TOTAL 180 180 204 564 3395 12825 17117 33337

CURRICULUM TOTAL 1372 1198 811 3381 12897 51655 84759 149311

PRE-CLINICAL CONTACT HOURS 684 474 36 1194 684 2900 1944 5528

PRE-CLINICAL CONTACT HOURS / 360 = REQUIRED FTE FOR M.D. PROGRAM 1.90 8.05 5.40 15.35

CLINICAL CONTACT HOURS 688 724 775 2187 12213 48755 82815 143783

CLINICAL CONTACT HOURS / 630 = REQUIRED FTE FOR M.D. PROGRAM 19.39 77.39 131.45 228.23

PRE-CLINICAL & CLINICAL REQUIRED FTE FOR M.D. PROGRAM 21.29 85.44 136.85 243.58

COST CONSTRUCTION COMPARABLE PROPORTIONS

PROFESSORIAL (RANKED FACULTY--INSTRUCTOR & ABOVE) FTE BY SOURCE*	Costs	Av Sal.	# FTE	# FTE
PROFESSORIAL--PAID THROUGH UNIVERSITY GENERAL LEDGER	4611364	49196	93.73	95.72
PROFESSORIAL--CLINICAL VOLUNTEERS NOT PAID BY UNIVERSITY	6700000	68675	97.56	99.63
PROFESSORIAL--GEOGRAPHIC PRACTICE NOT PAID BY UNIVERSITY	1041250	49196	21.17	21.62
PROFESSORIAL--AFFILIATE HOSPITAL NOT PAID BY UNIVERSITY	1282610	49196	26.07	26.62
TOTAL FACULTY PARTICIPATING IN M.D. PROGRAM	13635224		238.53	243.58

														1987-88		FIGURE - 10	
SESSION	PHASE	COURSE	TITLE	STUDENT CONTACT HRS			SCH TOT/HRS	CLASS SIZES	GROUP SIZE			FACULTY EFFORT %		FACULTY CONTACT HRS			
				LECT	LAB	CL/SEM			LECT	LAB	CL/SEM	LECT	LAB	CL/SEM	TOT/HRS	FCH	
YEAR-1	PRE-CLIN.	GROSS ANATOMY		50	123		173	208	208	30		0.25	50	213	0	263	
YEAR-1	PRE-CLIN.	HISTOLOGY		38	57		95	208	208	17		0.71	38	495	0	533	
YEAR-1	PRE-CLIN.	EMBRYOLOGY		38			38	208	208			1.00	38	0	0	38	
YEAR-1	PRE-CLIN.	BIOCHEMISTRY		90	41		131	208	208	6		0.25	90	355	0	445	
YEAR-1	PRE-CLIN.	PHYSIOLOGY		81	56		137	208	208	14		0.57	81	474	0	555	
YEAR-1	PRE-CLIN.	PATHOLOGY		40	40		80	208	208	24		0.80	40	277	0	317	
YEAR-1	PRE-CLIN.	HUMAN BEHAVIOR		37			37	208	208			1.00	37	0	0	37	
YEAR-1	PRE-CLIN.	MICROBIOLOGY		80	50		130	208	208	24		0.40	80	173	0	253	
YEAR-1	PRE-CLIN.	NEUROANATOMY		21	18		39	208	208	20		0.50	21	94	0	115	
YEAR-1	PRE-CLIN.	HUMAN SEXUALITY		12	15		27	208	208	12		1.00	12	260	0	272	
YEAR-1	PRE-CLIN.	HUMAN GENETICS		17			17	208	208			1.00	17	0	0	17	
YEAR-1	PRE-CLIN.	CLINICAL MEDICINE I		12		36	48	208	208		4	1.00	12	0	1872	1884	
YEAR-1	PRE-CLIN.	CLINICAL CORRELATION		30			30	208	208			1.00	30	0	0	30	
SESSION TOTAL				546	400	36	982						546	2342	1872	4760	
YEAR-2	PRE-CLIN.	PATHOLOGY		58	50		108	222	222	24		0.80	58	370	0	428	
YEAR-2	PRE-CLIN.	PHARMACOLOGY		80	24		104	222	222	21		0.32	80	81	0	161	
YEAR-2	CLIN.	PATHOPHYSIOLOGY I		69		34	103	222	222		4	1.00	69	0	1887	1956	
YEAR-2	CLIN.	PATHOPHYSIOLOGY II		76		26	102	222	222		4	1.00	76	0	1443	1519	
YEAR-2	CLIN.	PATHOPHYSIOLOGY III		64	16	31	111	222	222	4	4	1.00	64	888	1720	2672	
YEAR-2	CLIN.	PATHOPHYSIOLOGY IV		59			59	222	222			1.00	59	0	0	59	
YEAR-2	CLIN.	TUTORIAL: CLIN. MED. II.			48		48	222		4		1.00	0	2664	0	2664	
YEAR-2	CLIN.	TUTORIAL: MEDICINE			48		48	222		4		0.75	0	1998	0	1998	
YEAR-2	CLIN.	TUTORIAL: PEDIATRICS			48		48	222		4		0.75	0	1998	0	1998	
YEAR-2	CLIN.	TUTORIAL: FAMILY PRACTICE			48		48	222		1		0.50	0	5328	0	5328	
YEAR-2	CLIN.	TUTORIAL: NEUROLOGY			48		48	222		4		0.75	0	1998	0	1998	
SESSION TOTAL				406	330	91	827						406	15325	5050	20782	
YEAR-3	CLIN.	CLERKSHIP MEDICINE		30	36	30	96	278		8	4	1	1.00	1042	2502	8340	11884
YEAR-3	CLIN.	MEDICINE CLINIC				30	30	278				.5	0.07	0	0	1118	1118
YEAR-3	CLIN.	CLERKSHIP SURGERY		30	36	30	96	278		8	4	1	1.00	1042	2502	8340	11884
YEAR-3	CLIN.	SURGERY CLINIC				30	30	278				.5	0.07	0	0	1118	1118
YEAR-3	CLIN.	CLERKSHIP PEDIATRICS		30	36	30	96	278		8	4	1	1.00	1042	2502	8340	11884
YEAR-3	CLIN.	PEDIATRICS CLINIC				30	30	278				.5	0.07	0	0	1118	1118
YEAR-3	CLIN.	CLERKSHIP PSYCHIATRY		30	36	30	96	278		8	4	1	1.00	1042	2502	8340	11884
YEAR-3	CLIN.	PSYCHIATRY CLINIC				30	30	278				.5	0.07	0	0	1118	1118
YEAR-3	CLIN.	CLERKSHIP NEUROLOGY		30	36	30	96	278		8	4	1	0.50	1042	2502	4170	7714
YEAR-3	CLIN.	NEUROLOGY CLINIC				30	30	278				.5	0.07	0	0	1118	1118
YEAR-3	CLIN.	CLERKSHIP OB/GYN		30	36	30	96	278		8	4	1	0.50	1042	2502	4170	7714
YEAR-3	CLIN.	OB/GYN CLINIC				30	30	278				.5	0.07	0	0	1118	1118
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	278		8	4	1	0.50	1042	2502	4170	7714
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	278				.5	0.07	0	0	1118	1118
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	278		8	4	1	0.50	1042	2502	4170	7714
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	278				.5	0.07	0	0	1118	1118
SESSION TOTAL				240	288	480	1008							8340	20016	58980	87336
YEAR-4	CLIN.	CLERKSHIP ADVANCED MED.		30	36	30	96	280		8	4	1	0.50	1050	2520	4200	7770
YEAR-4	CLIN.	ADVANCED MED. CLINIC				30	30	280				.5	0.07	0	0	1126	1126
YEAR-4	CLIN.	CLERKSHIP DIDACTIC SEL.		90	72	24	186	280		136	4	8	1.00	185	5040	840	6065
YEAR-4	CLIN.	CLERKSHIP ELECTIVE		60	72	60	192	280		8	4	1	0.50	2100	5040	8400	15540
YEAR-4	CLIN.	ELECTIVE CLINIC				60	60	280				.5	0.07	0	0	2251	2251
SESSION TOTAL				180	180	204	564							3335	12600	16817	32752
CURRICULUM TOTAL				1372	1198	811	3381							12627	50283	82720	145630
PRE-CLINICAL CONTACT HOURS				684	474	36	1194							684	2793	1872	5349
PRE-CLINICAL CONTACT HOURS / 360 = REQUIRED FTE FOR M.D. PROGRAM														1.90	7.76	5.20	14.86
CLINICAL CONTACT HOURS				688	724	775	2187							11943	47490	80848	140281
CLINICAL CONTACT HOURS / 630 = REQUIRED FTE FOR M.D. PROGRAM														18.96	75.38	128.33	222.67
PRE-CLINICAL & CLINICAL REQUIRED FTE FOR M.D. PROGRAM														20.86	83.14	133.53	237.53
														COST CONSTRUCTION COMPARABLE PROPORTIONS			
PROFESSORIAL (RANKED FACULTY--INSTRUCTOR & ABOVE) FTE BY SOURCE*																	
														Costs	Av Sal.	# FTE	# FTE
PROFESSORIAL--PAID THROUGH UNIVERSITY GENERAL LEDGER														4611364	49196	93.73	93.34
PROFESSORIAL--CLINICAL VOLUNTEERS NOT PAID BY UNIVERSITY														6700000	68675	97.56	97.15
PROFESSORIAL--GEOGRAPHIC PRACTICE NOT PAID BY UNIVERSITY														1041250	49196	21.17	21.08
PROFESSORIAL--AFFILIATE HOSPITAL NOT PAID BY UNIVERSITY														1282610	49196	26.07	25.96
TOTAL FACULTY PARTICIPATING IN M.D. PROGRAM														13635224		238.53	237.53

SESSION	PHASE	COURSE	TITLE	1988-89				GROUP SIZE		FACULTY		FIGURE 11		
				STUDENT CONTACT HRS	SCH	CLASS	LECT	LAB	CL/SEM	EFFORT 2	LECT	LAB	CL/SEM	FCH
YEAR-1	PRE-CLIN.	CROSS ANATOMY		50	123	173	200	200	30	0.25	50	205	0	255
YEAR-1	PRE-CLIN.	HISTOLOGY		38	57	95	200	200	17	0.71	38	476	0	514
YEAR-1	PRE-CLIN.	EMBRYOLOGY		38		38	200	200		1.00	38	0	0	38
YEAR-1	PRE-CLIN.	BIOCHEMISTRY		90	41	131	200	200	6	0.25	90	342	0	432
YEAR-1	PRE-CLIN.	PHYSIOLOGY		81	56	137	200	200	14	0.57	81	456	0	537
YEAR-1	PRE-CLIN.	PATHOLOGY		40	40	80	200	200	24	0.80	40	267	0	307
YEAR-1	PRE-CLIN.	HUMAN BEHAVIOR		37		37	200	200		1.00	37	0	0	37
YEAR-1	PRE-CLIN.	MICROBIOLOGY		80	50	130	200	200	24	0.40	80	167	0	247
YEAR-1	PRE-CLIN.	NEUROANATOMY		21	18	39	200	200	20	0.50	21	90	0	111
YEAR-1	PRE-CLIN.	HUMAN SEXUALITY		12	15	27	200	200	12	1.00	12	250	0	262
YEAR-1	PRE-CLIN.	HUMAN GENETICS		17		17	200	200		1.00	17	0	0	17
YEAR-1	PRE-CLIN.	CLINICAL MEDICINE I		12		36	48	200	200	4	1.00	12	0	1800
YEAR-1	PRE-CLIN.	CLINICAL CORRELATION		30		30	200	200		1.00	30	0	0	30

SESSION TOTAL 546 400 36 982 546 2252 1800 4598

YEAR-2	PRE-CLIN.	PATHOLOGY		58	50	108	214	214	24	0.80	58	357	0	415
YEAR-2	PRE-CLIN.	PHARMACOLOGY		80	24	104	214	214	21	0.32	80	78	0	158
YEAR-2	CLIN.	PATHOPHYSIOLOGY I		62		34	103	214		4	1.00	69	0	1819
YEAR-2	CLIN.	PATHOPHYSIOLOGY II		76		26	102	214		4	1.00	76	0	1391
YEAR-2	CLIN.	PATHOPHYSIOLOGY III		64	16	31	111	214	4	4	1.00	64	856	1658
YEAR-2	CLIN.	PATHOPHYSIOLOGY IV		59		59	214	214		1.00	59	0	0	59
YEAR-2	CLIN.	TUTORIAL: CLIN. MED. II.			48	48	214		4	1.00	0	2568	0	2568
YEAR-2	CLIN.	TUTORIAL: MEDICINE			48	48	214		4	0.75	0	1926	0	1926
YEAR-2	CLIN.	TUTORIAL: PEDIATRICS			48	48	214		4	0.75	0	1926	0	1926
YEAR-2	CLIN.	TUTORIAL: FAMILY PRACTICE			48	48	214		1	0.50	0	5136	0	5136
YEAR-2	CLIN.	TUTORIAL: NEUROLOGY			48	48	214		4	0.75	0	1926	0	1926

SESSION TOTAL 406 330 91 827 406 14773 4868 20047

YEAR-3	CLIN.	CLERKSHIP MEDICINE		30	36	30	96	270	8	4	1	1.00	1012	2430	8100	11542
YEAR-3	CLIN.	MEDICINE CLINIC				30	30	270			.5	0.07	0	0	1085	1085
YEAR-3	CLIN.	CLERKSHIP SURGERY		30	36	30	96	270	8	4	1	1.00	1012	2430	8100	11542
YEAR-3	CLIN.	SURGERY CLINIC				30	30	270			.5	0.07	0	0	1085	1085
YEAR-3	CLIN.	CLERKSHIP PEDIATRICS		30	36	30	96	270	8	4	1	1.00	1012	2430	8100	11542
YEAR-3	CLIN.	PEDIATRICS CLINIC				30	30	270			.5	0.07	0	0	1085	1085
YEAR-3	CLIN.	CLERKSHIP PSYCHIATRY		30	36	30	96	270	8	4	1	1.00	1012	2430	8100	11542
YEAR-3	CLIN.	PSYCHIATRY CLINIC				30	30	270			.5	0.07	0	0	1085	1085
YEAR-3	CLIN.	CLERKSHIP NEUROLOGY		30	36	30	96	270	8	4	1	0.50	1012	2430	4050	7492
YEAR-3	CLIN.	NEUROLOGY CLINIC				30	30	270			.5	0.07	0	0	1085	1085
YEAR-3	CLIN.	CLERKSHIP OB/GYN		30	36	30	96	270	8	4	1	0.50	1012	2430	4050	7492
YEAR-3	CLIN.	OB/GYN CLINIC				30	30	270			.5	0.07	0	0	1085	1085
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	270	8	4	1	0.50	1012	2430	4050	7492
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	270			.5	0.07	0	0	1085	1085
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	270	8	4	1	0.50	1012	2430	4050	7492
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	270			.5	0.07	0	0	1085	1085

SESSION TOTAL 240 288 480 1008 8100 19440 57283 84823

YEAR-4	CLIN.	CLERKSHIP ADVANCED MED.		30	36	30	96	280	8	4	1	0.50	1050	2520	4200	7770
YEAR-4	CLIN.	ADVANCED MED. CLINIC				30	30	280			.5	0.07	0	0	1126	1126
YEAR-4	CLIN.	CLERKSHIP DIDACTIC SEL.		90	72	24	186	280	136	4	8	1.00	185	5040	840	6065
YEAR-4	CLIN.	CLERKSHIP ELECTIVE		60	72	60	192	280	8	4	1	0.50	2100	5040	8400	15540
YEAR-4	CLIN.	ELECTIVE CLINIC				60	60	280			.5	0.07	0	0	2251	2251

SESSION TOTAL 180 180 204 564 3335 12600 16817 32752

CURRICULUM TOTAL 1372 1198 811 3381 12387 49065 80768 142221

PRE-CLINICAL CONTACT HOURS 684 474 36 1194 684 2687 1800 5171

PRE-CLINICAL CONTACT HOURS / 360 = REQUIRED FTE FOR M.D. PROGRAM 1.90 7.46 5.00 14.36

CLINICAL CONTACT HOURS 688 724 775 2187 11703 46378 78968 137050

CLINICAL CONTACT HOURS / 630 = REQUIRED FTE FOR M.D. PROGRAM 18.58 73.62 125.35 217.54

PRE-CLINICAL & CLINICAL REQUIRED FTE FOR M.D. PROGRAM 20.48 81.08 130.35 231.90

COST CONSTRUCTION COMPARABLE PROPORTIONS

PROFESSORIAL (RANKED FACULTY--INSTRUCTOR & ABOVE) FTE BY SOURCE*

	Costs	Av Sal.	# FTE	# FTE
PROFESSORIAL--PAID THROUGH UNIVERSITY GENERAL LEDGER	4611364	49196	93.73	91.13
PROFESSORIAL--CLINICAL VOLUNTEERS NOT PAID BY UNIVERSITY	6700000	68675	97.56	94.85
PROFESSORIAL--GEOGRAPHIC PRACTICE NOT PAID BY UNIVERSITY	1041250	49196	21.17	20.58
PROFESSORIAL--AFFILIATE HOSPITAL NOT PAID BY UNIVERSITY	1282610	49196	26.07	25.35
TOTAL FACULTY PARTICIPATING IN M.D. PROGRAM	13635224		238.51	231.90

SESSION	PHASE	COURSE	TITLE	1989-90				GROUP SIZE		FACULTY EFFORT %		FACULTY CONTACT HRS		FIGURE 12 FCH			
				STUDENT LECT	CONTACT LAB	HRS CL/SEM	SCH TOT/HR	CLASS SIZES	LECT	LAB	CL/SEM	LECT	LAB	CL/SEM	TOT/HR		
YEAR-1	PRE-CLIN.	GROSS ANATOMY		50	123		173	200	200	30	0.25	50	205	0	255		
YEAR-1	PRE-CLIN.	HISTOLOGY		38	57		95	200	200	17	0.71	38	476	0	514		
YEAR-1	PRE-CLIN.	EMBRYOLOGY		38			38	200	200		1.00	38	0	0	38		
YEAR-1	PRE-CLIN.	BIOCHEMISTRY		90	41		131	200	200	6	0.25	90	342	0	432		
YEAR-1	PRE-CLIN.	PHYSIOLOGY		81	56		137	200	200	14	0.57	81	456	0	537		
YEAR-1	PRE-CLIN.	PATHOLOGY		40	40		80	200	200	24	0.80	40	267	0	307		
YEAR-1	PRE-CLIN.	HUMAN BEHAVIOR		37			37	200	200		1.00	37	0	0	37		
YEAR-1	PRE-CLIN.	MICROBIOLOGY		80	50		130	200	200	24	0.40	80	167	0	247		
YEAR-1	PRE-CLIN.	NEUROANATOMY		21	18		39	200	200	20	0.50	21	90	0	111		
YEAR-1	PRE-CLIN.	HUMAN SEXUALITY		12	15		27	200	200	12	1.00	12	250	0	262		
YEAR-1	PRE-CLIN.	HUMAN GENETICS		17			17	200	200		1.00	17	0	0	17		
YEAR-1	PRE-CLIN.	CLINICAL MEDICINE I		12		36	48	200	200		4	1.00	12	0	1800		
YEAR-1	PRE-CLIN.	CLINICAL CORRELATION		30			30	200	200		1.00	30	0	0	30		
SESSION TOTAL				546	400	36	982					546	2252	1800	4598		
YEAR-2	PRE-CLIN.	PATHOLOGY		58	50		108	206	206	24	0.80	58	343	0	401		
YEAR-2	PRE-CLIN.	PHARMACOLOGY		80	24		104	206	206	21	0.32	80	75	0	155		
YEAR-2	CLIN.	PATHOPHYSIOLOGY I		69		34	103	206	206		4	1.00	69	0	1751		
YEAR-2	CLIN.	PATHOPHYSIOLOGY II		76		26	102	206	206		4	1.00	76	0	1339		
YEAR-2	CLIN.	PATHOPHYSIOLOGY III		64	16	31	111	206	206	4	1.00	64	824	1596	2484		
YEAR-2	CLIN.	PATHOPHYSIOLOGY IV		59			59	206	206		1.00	59	0	0	59		
YEAR-2	CLIN.	TUTORIAL: CLIN. MED. II.			48		48	206		4	1.00	0	2472	0	2472		
YEAR-2	CLIN.	TUTORIAL: MEDICINE			48		48	206		4	0.75	0	1854	0	1854		
YEAR-2	CLIN.	TUTORIAL: PEDIATRICS			48		48	206		4	0.75	0	1854	0	1854		
YEAR-2	CLIN.	TUTORIAL: FAMILY PRACTICE			48		48	206		1	0.50	0	4944	0	4944		
YEAR-2	CLIN.	TUTORIAL: NEUROLOGY			48		48	206		4	0.75	0	1854	0	1854		
SESSION TOTAL				406	330	91	827					406	14221	4686	19313		
YEAR-3	CLIN.	CLERKSHIP MEDICINE		30	36	30	96	260		8	4	1	1.00	975	2340	7800	11115
YEAR-3	CLIN.	MEDICINE CLINIC				30	30	260				.5	0.07	0	0	1045	1045
YEAR-3	CLIN.	CLERKSHIP SURGERY		30	36	30	96	260		8	4	1	1.00	975	2340	7800	11115
YEAR-3	CLIN.	SURGERY CLINIC				30	30	260				.5	0.07	0	0	1045	1045
YEAR-3	CLIN.	CLERKSHIP PEDIATRICS		30	36	30	96	260		8	4	1	1.00	975	2340	7800	11115
YEAR-3	CLIN.	PEDIATRICS CLINIC				30	30	260				.5	0.07	0	0	1045	1045
YEAR-3	CLIN.	CLERKSHIP PSYCHIATRY		30	36	30	96	260		8	4	1	1.00	975	2340	7800	11115
YEAR-3	CLIN.	PSYCHIATRY CLINIC				30	30	260				.5	0.07	0	0	1045	1045
YEAR-3	CLIN.	CLERKSHIP NEUROLOGY		30	36	30	96	260		8	4	1	0.50	975	2340	3900	7215
YEAR-3	CLIN.	NEUROLOGY CLINIC				30	30	260				.5	0.07	0	0	1045	1045
YEAR-3	CLIN.	CLERKSHIP OB/GYN		30	36	30	96	260		8	4	1	0.50	975	2340	3900	7215
YEAR-3	CLIN.	OB/GYN CLINIC				30	30	260				.5	0.07	0	0	1045	1045
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	260		8	4	1	0.50	975	2340	3900	7215
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	260				.5	0.07	0	0	1045	1045
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	260		8	4	1	0.50	975	2340	3900	7215
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	260				.5	0.07	0	0	1045	1045
SESSION TOTAL				240	288	480	1008						7800	18720	55162	81682	
CURRICULUM TOTAL				1372	1198	811	3381						11968	47343	77864	137175	
PRE-CLINICAL CONTACT HOURS				684	474	36	1194						684	2671	1800	5155	
PRE-CLINICAL CONTACT HOURS / 360 = REQUIRED FTE FOR M.D. PROGRAM													1.90	7.42	5.00	14.32	
CLINICAL CONTACT HOURS				688	724	775	2187						11284	44672	76064	132020	
CLINICAL CONTACT HOURS / 630 = REQUIRED FTE FOR M.D. PROGRAM													17.91	70.91	120.74	209.56	
PRE-CLINICAL & CLINICAL REQUIRED FTE FOR M.D. PROGRAM													19.81	78.33	125.74	223.88	
COST CONSTRUCTION COMPARABLE PROPORTIONS																	
PROFESSORIAL (RANKED FACULTY--INSTRUCTOR & ABOVE) FTE BY SOURCE*																	
								Costs Av	Sal.	# FTE						# FTE	
PROFESSORIAL--PAID THROUGH UNIVERSITY GENERAL LEDGER								4611364	49196	93.73						87.97	
PROFESSORIAL--CLINICAL VOLUNTEERS NOT PAID BY UNIVERSITY								6700000	68675	97.56						91.57	
PROFESSORIAL--GEOGRAPHIC PRACTICE NOT PAID BY UNIVERSITY								1041250	49196	21.17						19.87	
PROFESSORIAL--AFFILIATE HOSPITAL NOT PAID BY UNIVERSITY								1242610	49196	26.07						24.47	
TOTAL FACULTY PARTICIPATING IN M.D. PROGRAM								13635224		238.53						223.88	

SESSION	PHASE	COURSE	TITLE	1990-91				FIGURE 13							
				STUDENT CONTACT HRS	SCH CLASS	GROUP SIZE	FACULTY	FACULTY	CONTACT HRS	FCH					
				LECT	LAB	CL/SEM	TOT/HRS	LECT	LAB	CL/SEM	TOT/HRS				
YEAR-1	PRE-CLIN.	GROSS ANATOMY		50	123		173	200	200	30	0.25	50	205	0	255
YEAR-1	PRE-CLIN.	HISTOLOGY		38	57		95	200	200	17	0.71	38	476	0	514
YEAR-1	PRE-CLIN.	EMBRYOLOGY		38			38	200	200		1.00	38	0	0	38
YEAR-1	PRE-CLIN.	BIOCHEMISTRY		90	41		131	200	200	6	0.25	90	342	0	432
YEAR-1	PRE-CLIN.	PHYSIOLOGY		81	56		137	200	200	14	0.57	81	456	0	537
YEAR-1	PRE-CLIN.	PATHOLOGY		40	40		80	200	200	24	0.80	40	267	0	307
YEAR-1	PRE-CLIN.	HUMAN BEHAVIOR		37			37	200	200		1.00	37	0	0	37
YEAR-1	PRE-CLIN.	MICROBIOLOGY		80	50		130	200	200	24	0.40	80	167	0	247
YEAR-1	PRE-CLIN.	NEUROANATOMY		21	18		39	200	200	20	0.50	21	90	0	111
YEAR-1	PRE-CLIN.	HUMAN SEXUALITY		12	15		27	200	200	12	1.00	12	250	0	262
YEAR-1	PRE-CLIN.	HUMAN GENETICS		17			17	200	200		1.00	17	0	0	17
YEAR-1	PRE-CLIN.	CLINICAL MEDICINE I		12		36	48	200	200		4	1.00	12	0	1800
YEAR-1	PRE-CLIN.	CLINICAL CORRELATION		30			30	200	200		1.00	30	0	0	30

SESSION TOTAL				546	400	36	982					546	2252	1800	4598
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YEAR-2	PRE-CLIN.	PATHOLOGY		58	50		108	206	206	24	0.80	58	343	0	401
YEAR-2	PRE-CLIN.	PHARMACOLOGY		80	24		104	206	206	21	0.32	80	75	0	155
YEAR-2	CLIN.	PATHOPHYSIOLOGY I		69		34	103	206	206		4	1.00	69	0	1751
YEAR-2	CLIN.	PATHOPHYSIOLOGY II		76		26	102	206	206		4	1.00	76	0	1339
YEAR-2	CLIN.	PATHOPHYSIOLOGY III		64	16	31	111	206	206	4	4	1.00	64	824	1596
YEAR-2	CLIN.	PATHOPHYSIOLOGY IV		59			59	206	206			1.00	59	0	59
YEAR-2	CLIN.	TUTORIAL: CLIN. MED. II.			48		48	206	206	4		1.00	0	2472	0
YEAR-2	CLIN.	TUTORIAL: MEDICINE			48		48	206	206	4		0.75	0	1854	0
YEAR-2	CLIN.	TUTORIAL: PEDIATRICS			48		48	206	206	4		0.75	0	1854	0
YEAR-2	CLIN.	TUTORIAL: FAMILY PRACTICE			48		48	206	206	1		0.50	0	4944	0
YEAR-2	CLIN.	TUTORIAL: NEUROLOGY			48		48	206	206	4		0.75	0	1854	0

SESSION TOTAL				406	330	91	827					406	14221	4686	19313
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YEAR-3	CLIN.	CLERKSHIP MEDICINE		30	36	30	96	254	8	4	1	1.00	952	2286	7620
YEAR-3	CLIN.	MEDICINE CLINIC				30	30	254			.5	0.07	0	0	1021
YEAR-3	CLIN.	CLERKSHIP SURGERY		30	36	30	96	254	8	4	1	1.00	952	2286	7620
YEAR-3	CLIN.	SURGERY CLINIC				30	30	254			.5	0.07	0	0	1021
YEAR-3	CLIN.	CLERKSHIP PEDIATRICS		30	36	30	96	254	8	4	1	1.00	952	2286	7620
YEAR-3	CLIN.	PEDIATRICS CLINIC				30	30	254			.5	0.07	0	0	1021
YEAR-3	CLIN.	CLERKSHIP PSYCHIATRY		30	36	30	96	254	8	4	1	1.00	952	2286	7620
YEAR-3	CLIN.	PSYCHIATRY CLINIC				30	30	254			.5	0.07	0	0	1021
YEAR-3	CLIN.	CLERKSHIP NEUROLOGY		30	36	30	96	254	8	4	1	0.50	952	2286	3810
YEAR-3	CLIN.	NEUROLOGY CLINIC				30	30	254			.5	0.07	0	0	1021
YEAR-3	CLIN.	CLERKSHIP OB/GYN		30	36	30	96	254	8	4	1	0.50	952	2286	3810
YEAR-3	CLIN.	OB/GYN CLINIC				30	30	254			.5	0.07	0	0	1021
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	254	8	4	1	0.50	952	2286	3810
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	254			.5	0.07	0	0	1021

SESSION TOTAL				240	288	480	1008					7620	18288	53889	79797
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YEAR-4	CLIN.	CLERKSHIP ADVANCED MED.		30	36	30	96	260	8	4	1	0.50	975	2340	3900
YEAR-4	CLIN.	ADVANCED MED. CLINIC				30	30	260			.5	0.07	0	0	1045
YEAR-4	CLIN.	CLERKSHIP DIDACTIC SEL.		90	72	24	186	260	136	4	8	1.00	172	4680	780
YEAR-4	CLIN.	CLERKSHIP ELECTIVE		60	72	60	192	260	8	4	1	0.50	1950	4680	7800
YEAR-4	CLIN.	ELECTIVE CLINIC				60	60	260			.5	0.07	0	0	2090

SESSION TOTAL				180	180	204	564					3097	11700	15616	30413
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CURRICULUM TOTAL				1372	1198	811	3381					11669	46461	75991	134121
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PRE-CLINICAL CONTACT HOURS				684	474	36	1194					684	2671	1800	5155
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PPE-CLINICAL CONTACT HOURS / 360 = REQUIRED FTE FOR M.D. PROGRAM												1.90	7.42	5.00	14.32
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CLINICAL CONTACT HOURS				688	724	775	2187					10985	43790	74191	128966
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CLINICAL CONTACT HOURS / 630 = REQUIRED FTE FOR M.D. PROGRAM												17.44	69.51	117.76	204.71
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PRE-CLINICAL & CLINICAL REQUIRED FTE FOR M.D. PROGRAM												19.34	76.93	122.76	219.03
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PROFESSORIAL (RANKED FACULTY--INSTRUCTOR & ABOVE) FTE BY SOURCE*

	Costs	Av Sal.	# FTE	# FTE
PROFESSORIAL--PAID THROUGH UNIVERSITY GENERAL LEDGER	4611364	49196	93.73	86.07
PROFESSORIAL--CLINICAL VOLUNTEERS NOT PAID BY UNIVERSITY	6700000	68675	97.56	89.58
PROFESSORIAL--GEOGRAPHIC PRACTICE NOT PAID BY UNIVERSITY	1041250	49196	21.17	19.44
PROFESSORIAL--AFFILIATE HOSPITAL NOT PAID BY UNIVERSITY	1282610	49196	26.07	23.94
TOTAL FACULTY PARTICIPATING IN M.D. PROGRAM	13635224		238.53	219.03

SESSION	PHASE	COURSE	TITLE	1991-92				GROUP SIZE		FACULTY		CONTACT HRS		FIGURE 14	
				LECT	LAB	CL/SEM	SCH TOT/HRS	CLASS SIZES	LECT	LAB	CL/SEM	EFFORT %	LECT	LAB	CL/SEM
YEAR-1	PRE-CLIN.	GROSS ANATOMY		50	123		173	200	200	30	0.25	50	205	0	255
YEAR-1	PRE-CLIN.	HISTOLOGY		38	57		95	200	200	17	0.71	38	476	0	514
YEAR-1	PRE-CLIN.	EMBRYOLOGY		38			38	200	200		1.00	38	0	0	38
YEAR-1	PRE-CLIN.	BIOCHEMISTRY		90	41		131	200	200	6	0.25	90	342	0	432
YEAR-1	PRE-CLIN.	PHYSIOLOGY		81	56		137	200	200	14	0.57	81	456	0	537
YEAR-1	PRE-CLIN.	PATHOLOGY		40	40		80	200	200	24	0.80	40	267	0	307
YEAR-1	PRE-CLIN.	HUMAN BEHAVIOR		37			37	200	200		1.00	37	0	0	37
YEAR-1	PRE-CLIN.	MICROBIOLOGY		80	50		130	200	200	24	0.40	80	167	0	247
YEAR-1	PRE-CLIN.	NEUROANATOMY		21	18		39	200	200	20	0.50	21	90	0	111
YEAR-1	PRE-CLIN.	HUMAN SEXUALITY		12	15		27	200	200	12	1.00	12	250	0	262
YEAR-1	PRE-CLIN.	HUMAN GENETICS		17			17	200	200		1.00	17	0	0	17
YEAR-1	PRE-CLIN.	CLINICAL MEDICINE I		12		36	48	200	200		1.00	12	0	1800	1812
YEAR-1	PRE-CLIN.	CLINICAL CORRELATION		30			30	200	200		1.00	30	0	0	30

SESSION TOTAL				546	400	36	982					546	2252	1800	4598
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YEAR-2	PRE-CLIN.	PATHOLOGY		58	50		108	206	206	24	0.80	58	343	0	401
YEAR-2	PRE-CLIN.	PHARMACOLOGY		80	24		104	206	206	21	0.32	80	75	0	155
YEAR-2	CLIN.	PATHOPHYSIOLOGY I		69		34	103	206	206	4	1.00	69	0	1751	1820
YEAR-2	CLIN.	PATHOPHYSIOLOGY II		76		26	102	206	206	4	1.00	76	0	1339	1415
YEAR-2	CLIN.	PATHOPHYSIOLOGY III		64	16	31	111	206	206	4	1.00	64	824	1596	2484
YEAR-2	CLIN.	PATHOPHYSIOLOGY IV		59			59	206	206		1.00	59	0	0	59
YEAR-2	CLIN.	TUTORIAL: CLIN. MED. II.			48		48	206		4	1.00	0	2472	0	2472
YEAR-2	CLIN.	TUTORIAL: MEDICINE			48		48	206		4	0.75	0	1854	0	1854
YEAR-2	CLIN.	TUTORIAL: PEDIATRICS			48		48	206		4	0.75	0	1854	0	1854
YEAR-2	CLIN.	TUTORIAL: FAMILY PRACTICE			48		48	206		1	0.50	0	4944	0	4944
YEAR-2	CLIN.	TUTORIAL: NEUROLOGY			48		48	206		4	0.75	0	1854	0	1854

SESSION TOTAL				406	330	91	827					406	14221	4686	19313
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YEAR-3	CLIN.	CLERKSHIP MEDICINE		30	36	30	96	254	8	4	1	1.00	952	2286	7620	10858
YEAR-3	CLIN.	MEDICINE CLINIC				30	30	254			.5	0.07	0	0	1021	1021
YEAR-3	CLIN.	CLERKSHIP SURGERY		30	36	30	96	254	8	4	1	1.00	952	2286	7620	10858
YEAR-3	CLIN.	SURGERY CLINIC				30	30	254			.5	0.07	0	0	1021	1021
YEAR-3	CLIN.	CLERKSHIP PEDIATRICS		30	36	30	96	254	8	4	1	1.00	952	2286	7620	10858
YEAR-3	CLIN.	PEDIATRICS CLINIC				30	30	254			.5	0.07	0	0	1021	1021
YEAR-3	CLIN.	CLERKSHIP PSYCHIATRY		30	36	30	96	254	8	4	1	1.00	952	2286	7620	10858
YEAR-3	CLIN.	PSYCHIATRY CLINIC				30	30	254			.5	0.07	0	0	1021	1021
YEAR-3	CLIN.	CLERKSHIP NEUROLOGY		30	36	30	96	254	8	4	1	0.50	952	2286	3810	7048
YEAR-3	CLIN.	NEUROLOGY CLINIC				30	30	254			.5	0.07	0	0	1021	1021
YEAR-3	CLIN.	CLERKSHIP OB/GYN		30	36	30	96	254	8	4	1	0.50	952	2286	3810	7048
YEAR-3	CLIN.	OB/GYN CLINIC				30	30	254			.5	0.07	0	0	1021	1021
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	254	8	4	1	0.50	952	2286	3810	7048
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	254			.5	0.07	0	0	1021	1021
YEAR-3	CLIN.	CLERKSHIP ELECTIVE		30	36	30	96	254	8	4	1	0.50	952	2286	3810	7048
YEAR-3	CLIN.	ELECTIVE CLINIC				30	30	254			.5	0.07	0	0	1021	1021

SESSION TOTAL				240	288	480	1008					7620	18288	53889	79797
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YEAR-4	CLIN.	CLERKSHIP ADVANCED MED.		30	36	30	96	254	8	4	1	0.50	952	2286	3810	7048
YEAR-4	CLIN.	ADVANCED MED. CLINIC				30	30	254			.5	0.07	0	0	1021	1021
YEAR-4	CLIN.	CLERKSHIP DIDACTIC SEL.		90	72	24	186	254	136	4	8	1.00	168	4572	762	5502
YEAR-4	CLIN.	CLERKSHIP ELECTIVE		60	72	60	192	254	8	4	1	0.50	1905	4572	7620	14097
YEAR-4	CLIN.	ELECTIVE CLINIC				60	60	254			.5	0.07	0	0	2042	2042

SESSION TOTAL				180	180	204	564					3026	11430	15255	29711
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CURRICULUM TOTAL				1372	1198	811	3381					11598	46191	75630	133419
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PRE-CLINICAL CONTACT HOURS				684	474	36	1194					684	2671	1800	5155
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PRE-CLINICAL CONTACT HOURS / 360 = REQUIRED FTE FOR M.D. PROGRAM												1.90	7.42	5.00	14.32
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CLINICAL CONTACT HOURS				688	724	775	2187					10914	43520	73830	128264
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CLINICAL CONTACT HOURS / 630 = REQUIRED FTE FOR M.D. PROGRAM												17.32	69.08	117.19	203.59
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PRE-CLINICAL & CLINICAL REQUIRED FTE FOR M.D. PROGRAM												19.22	76.50	122.19	217.91
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COST CONSTRUCTION COMPARABLE PROPORTIONS

PROFESSORIAL (RANKED FACULTY--INSTRUCTOR & ABOVE) FTE BY SOURCE*	Costs	Av Sal.	# FTE	# FTE
PROFESSORIAL--PAID THROUGH UNIVERSITY GENERAL LEDGER	4611364	49196	93.73	85.63
PROFESSORIAL--CLINICAL VOLUNTEERS NOT PAID BY UNIVERSITY	6700000	68675	97.56	89.13
PROFESSORIAL--GEOGRAPHIC PRACTICE NOT PAID BY UNIVERSITY	1041250	49196	21.17	19.34
PROFESSORIAL--AFFILIATE HOSPITAL NOT PAID BY UNIVERSITY	1282610	49196	26.07	23.82
TOTAL FACULTY PARTICIPATING IN M.D. PROGRAM	13635224		238.53	217.91

PROPOSED MEDICAL SCHOOL UNDERGRADUATE MEDICAL EDUCATION CLASS SIZES 1984-85 TO 1991-92

	BASE YEAR								
CLASS SIZE	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92
YEAR-1	239	232	224	216	208	200	200	200	200
YEAR-2	245	245	238	230	222	214	206	206	206
YEAR-3	290	290	290	285	278	270	260	254	254
YEAR-4	283	285	285	285	280	280	270	260	254
OTHER	8	6	6	6	6	6	6	6	6
TOTALS	1065	1058	1043	1022	994	970	942	926	920
DECREASE	0	7	22	43	71	95	123	139	145
CUM. %	0.0	0.01	0.02	0.04	0.07	0.09	0.12	0.13	0.14

FACULTY RESOURCE REQUIREMENTS BASED UPON COST CONSTRUCTION CHARTS: 1983-84 TO 1991-92

	FTE	FTE	FTE	FTE	FTE	FTE	FTE	FTE	FTE
	POSITIONS	POSITIONS	POSITIONS	POSITIONS	POSITIONS	POSITIONS	POSITIONS	POSITIONS	POSITIONS
PRE-CLIN.	16.73	16.34	15.85	15.35	14.86	14.36	14.32	14.32	14.32
DECREASE	0.0	0.39	0.88	1.38	1.87	2.37	2.41	2.41	2.41
CUM. %	0.0	2.33	5.26	8.25	11.18	14.17	14.41	14.41	14.41
CLINICAL	232.49	232.86	231.86	228.23	222.67	217.54	209.56	204.71	203.59
DECREASE	0.0	(0.37)	0.63	4.26	9.82	14.95	22.93	27.78	28.00
CUM. %	0.0	(0.16)	0.27	1.83	4.22	6.43	9.86	11.95	12.43
TOTALS	249.22	249.20	247.71	243.58	237.53	231.90	223.88	219.03	217.91
DECREASE	0.0	0.02	1.51	5.64	11.69	17.32	25.34	30.19	31.31
CUM. %	0.0	0.01	0.61	2.26	4.69	6.95	10.17	12.11	12.56

	BASE YEAR	CUMULATIVE POSITION DECREASES BY YEAR							
UNPAID THROUGH UNIVERSITY LEDGER	93.73	0.01	0.59	2.22	4.59	6.81	9.96	11.86	12.30
PRE-CLINICAL VOLUNTEERS NOT PAID	97.56	0.01	0.62	2.31	4.78	7.08	10.36	12.35	12.81
NEOGRAPIC CLINICAL NOT PAID	21.17	0.00	0.13	0.50	1.04	1.54	2.25	2.68	2.78
AFFILIATE HOSPITAL NOT PAID	26.07	0.00	0.17	0.62	1.28	1.89	2.77	3.30	3.42
PARTICIPATING IN M.D. PROGRAM	238.53	0.02	1.51	5.64	11.69	17.32	25.34	30.19	31.31

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BASIC SCIENCES
CREDIT HOURS

Academic Year	Teaching Department	Undergraduate Service Load FYE's	Medical School FYE's	Graduate FYE's	Total FYE's
1974-75	Anatomy	152.1	159.9	40.3	312.5
1975-76		142.1	146.1	39.8	328.0
1976-77		127.5	141.7	31.7	300.9
1977-78		124.4	141.1	25.6	291.1
1978-79		119.0	139.4	19.4	277.8
1979-80		121.8	151.5	18.2	271.5
1980-81		121.6	151.5	19.0	272.1
1981-82	131.9	125.5	23.9	281.3	
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1974-75	Biochemistry	55.0	62.9	33.9	151.8
1975-76		63.1	62.4	32.1	157.6
1976-77		62.9	64.1	33.9	160.9
1977-78		60.3	62.0	24.1	146.4
1978-79		60.1	62.0	23.2	145.3
1979-80		62.7	65.2	20.0	145.9
1980-81		59.0	59.6	29.3	147.9
1981-82	57.1	57.6	26.0	140.7	
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1974-75	Physiology	105.8	62.7	44.9	213.4
1975-76		124.2	63.8	38.6	226.6
1976-77		120.7	61.3	39.5	221.5
1977-78		113.7	61.1	33.1	207.9
1978-79		108.6	86.1	29.1	223.8
1979-80		101.3	59.6	23.1	184.0
1980-81		92.0	58.0	22.8	172.8
1981-82	96.3	57.7	27.7	181.7	
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1974-75	Microbiology	103.4	61.8	38.7	203.9
1975-76		120.3	62.1	35.3	217.7
1976-77		107.4	65.6	37.2	210.2
1977-78		102.4	61.0	26.1	189.5
1978-79		96.0	61.0	30.6	187.6
1979-80		97.0	62.0	26.0	185.0
1980-81		99.2	48.0	35.6	182.8
1981-82	96.1	56.8	34.6	187.5	
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1974-75	Pharmacology	57.1	37.1	30.6	124.8
1975-76		62.0	39.5	41.6	143.1
1976-77		66.9	37.3	39.5	143.7
1977-78		66.3	53.3	21.5+	141.1+
1978-79		60.9	43.5	15.4	119.8
1979-80		64.0	43.3	11.6	118.9
1980-81		59.9	42.3	11.8	114.0
1981-82	58.9	42.1	13.9	114.9	
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1974-75	Laboratory Medicine and Pathology	75.6	137.9	50.3	263.8
1975-76		74.9	138.5	71.2	284.6
1976-77		68.9	180.9	63.9	313.7
1977-78		65.4	198.0	53.3	316.7
1978-79		64.9	182.0	32.8	279.7
1979-80		68.3	204.5	35.6	308.4
1980-81		60.8	189.7	26.7	277.2
1981-82	51.6	188.0	27.7	267.3	
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1974-75	TOTAL	529.0	502.3	238.7	1,270.0
1975-76		586.6	512.4	258.6	1,357.6
1976-77		554.3	550.9	245.7	1,350.9
1977-78		532.5	576.5	183.7	1,292.7
1978-79		509.5	574.0	150.5	1,234.0
1979-80		515.1	564.1	134.5	1,213.7
1980-81		492.5	529.1	145.2	1,166.8
1981-82	491.9	527.7	153.8	1,173.4	